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Phylogenetic identification and in situ detection of individual microbial cells without cultivation

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2107	Microbial Forensics. <b>1964</b> , 227-257		1
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2098	Identification of Pseudo-nitzschia australis (Bacillariophyceae) using rRNA-targeted probes in whole cell and sandwich hybridization formats. <b>1996</b> , 35, 190-197		145
2097	Vertical transmission of chemoautotrophic symbionts in the bivalve Solemya velum (Bivalvia: Protobranchia). <b>1996</b> , 190, 195-202		67
2096	Sequence and expression of an isocitrate dehydrogenase-encoding gene from a polycyclic aromatic hydrocarbon oxidizer, Sphingomonas yanoikuyae B1. <b>1996</b> , 168, 15-21		22
2095	Do bacteria need to communicate with each other for growth?. <b>1996</b> , 4, 237-42		105

2094	PCR-based technique for the detection of bacteria in semen and urine. <b>1996</b> , 26, 61-71	16
2093	Towards understanding the taxonomy of some of the filamentous bacteria causing bulking and foaming in activated sludge plants. <b>1996</b> , 34, 137	7
2092	Molecular analysis of the <i>Pseudomonas aeruginosa</i> genes, <i>ruvA</i> , <i>ruvB</i> and <i>ruvC</i> , involved in processing of homologous recombination intermediates. <b>1996</b> , 182, 63-70	23
2091	How many ruminal bacteria are there?. <b>1996</b> , 79, 1467-75	67
2090	New approaches to typing and identification of bacteria using the 16S-23S rDNA spacer region. <b>1996</b> , 142 ( Pt 1), 3-16	779
2089	Investigations of subterranean bacteria in deep crystalline bedrock and their importance for the disposal of nuclear waste. <b>1996</b> , 42, 382-391	79
2088	Differential sensitivity of 16S rRNA targeted oligonucleotide probes used for fluorescence in situ hybridization is a result of ribosomal higher order structure. <b>1996</b> , 42, 1061-71	50
2087	Detection of rifampin- and ciprofloxacin-resistant <i>Mycobacterium tuberculosis</i> by using species-specific assays for precursor rRNA. <b>1996</b> , 40, 1790-5	21
2086	Sequence-based identification of microbial pathogens: a reconsideration of Koch's postulates. <b>1996</b> , 9, 18-33	669
2085	Archaeal ubiquity. <b>1996</b> , 93, 6228-30	37
2084	Biocontrol of Soilborne Plant Pathogens. <b>1996</b> , 8, 1855	118
2083	Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences. <b>1996</b> , 93, 9188-93	512
2082	Towards Cataloguing Soil Bacteria: Preliminary Note.. <b>1996</b> , 11, 57-60	3
2081	In situ visualization of high genetic diversity in a natural microbial community. <b>1996</b> , 178, 3496-500	241
2080	Phylogenetic analysis of dissimilatory Fe(III)-reducing bacteria. <b>1996</b> , 178, 2402-8	317
2079	A psychrophilic crenarchaeon inhabits a marine sponge: <i>Cenarchaeum symbiosum</i> gen. nov., sp. nov. <b>1996</b> , 93, 6241-6	358
2078	Sequence heterogeneities of genes encoding 16S rRNAs in <i>Paenibacillus polymyxa</i> detected by temperature gradient gel electrophoresis. <b>1996</b> , 178, 5636-43	1074
2077	analysis of nitrifying bacteria in sewage treatment plants. <b>1996</b> , 34, 237	145

2076	The effect of different carbon sources on respiratory denitrification in biological wastewater treatment. <b>1996</b> , 82, 277-285	74
2075	Total bacterial diversity in soil and sediment communities—A review. <b>1996</b> , 17, 170-178	289
2074	Actinomycete diversity associated with foaming in activated sludge plants. <b>1996</b> , 17, 268-280	16
2073	Microdistribution of sulfate-reducing bacteria in sediments of a hypertrophic lake and their response to the addition of organic matter. <b>1996</b> , 11, 257-267	5
2072	MOLECULAR IDENTIFICATION OF A BACTERIUM ASSOCIATED WITH GALL FORMATION IN THE MARINE RED ALGA PRIONITIS LANCEOLATA1. <b>1996</b> , 32, 286-297	31
2071	IDENTIFICATION OF THE CLASS PRYMNESIOPHYCEAE AND THE GENUS PHAEOCYSTIS WITH RIBOSOMAL RNA-TARGETED NUCLEIC ACID PROBES DETECTED BY FLOW CYTOMETRY1. <b>1996</b> , 32, 858-868	73
2070	Phylogenetic Analysis and In Situ Identification of Uncultivated Spirochetes from the Hindgut of the Termite <i>Mastotermes darwiniensis</i> . <b>1996</b> , 19, 66-73	34
2069	The Determination and Comparison of the 16S rRNA Gene Sequences of Species of the Genus <i>Pseudomonas</i> (sensu stricto and Estimation of the Natural Intrageneric Relationships. <b>1996</b> , 19, 478-492	230
2068	rRNA-Targeted Oligonucleotide Probes for the Identification of Genuine and Former <i>Pseudomonads</i> . <b>1996</b> , 19, 501-509	67
2067	Combination of rRNA-Targeted Hybridization Probes and Immuno-Probes for the Identification of Bacteria by Flow Cytometry. <b>1996</b> , 19, 569-576	29
2066	Monitoring of genetically modified <i>Lactococcus lactis</i> in gnotobiotic and conventional rats by using antibiotic resistance markers and specific probe or primer based methods. <b>1996</b> , 19, 203-212	18
2065	16S rRNA Analysis of Isolates Obtained from Gram-Negative, Filamentous Bacteria Micromanipulated from Activated Sludge. <b>1996</b> , 19, 334-343	52
2064	16S rRNA Gene Probes for <i>Deinococcus</i> species. <b>1996</b> , 19, 365-369	3
2063	An In Situ Hybridization Protocol for Detection and Identification of Planktonic Bacteria. <b>1996</b> , 19, 403-406	238
2062	Describing microbial degradation processes with the EVOLON model. <b>1996</b> , 16, 237-244	2
2061	Fluorescent probes and flow cytometry: new insights into environmental bacteriology. <b>1996</b> , 23, 91-6	74
2060	Pyrolysis mass spectrometry and its applications in biotechnology. <b>1996</b> , 7, 20-8	100
2059	Description of prokaryotic biodiversity along the salinity gradient of a multipond solar saltern by direct PCR amplification of 16S rDNA. <b>1996</b> , 329, 19-31	51

2058	Problems and Promises of Assaying the Genetic Potential for Nitrogen Fixation in the Marine Environment. <b>1996</b> , 32, 263-81	81
2057	S Cycling: Characterization of Natural Communities of Sulfate-Reducing Bacteria by 16S rRNA Sequence Comparisons. <b>1996</b> , 32, 283-92	43
2056	Commitment to division in ciliate cell cycles. <b>1996</b> , 43, 77-86	15
2055	Symposium introductory remarks: "protistan molecular ecology and systematics". <b>1996</b> , 43, 87-8	5
2054	Ribosomal RNA-based oligonucleotide probes to identify marine green ultraphytoplankton. <b>1996</b> , 43, 89-94	23
2053	Intracellular endosymbiotic bacteria of <i>Camponotus</i> species (carpenter ants): systematics, evolution and ultrastructural characterization. <b>1996</b> , 21, 479-89	133
2052	The application of molecular techniques to the diagnosis and epidemiology of mycobacterial diseases. <b>1996</b> , 81, 53S-71S	5
2051	Nitrogen availability and fungal-bacterial responses in successional semiarid steppe soils. <b>1996</b> , 10, 321-332	15
2050	Specific detection of <i>Candida albicans</i> and <i>Candida tropicalis</i> by fluorescent in situ hybridization with an 18S rRNA-targeted oligonucleotide probe. <b>1996</b> , 142 ( Pt 10), 2731-40	37
2049	The marine bacterium <i>Pseudoalteromonas haloplanktis</i> has a complex genome structure composed of two separate genetic units. <b>1996</b> , 6, 1160-9	6
2048	Biocontrol of Soilborne Plant Pathogens. <b>1996</b> , 8, 1855-1869	331
2047	Fluorescent oligonucleotide rDNA probes that specifically bind to a common nanoflagellate, <i>Paraphysomonas vestita</i> . <b>1997</b> , 143 ( Pt 5), 1717-1727	25
2046	Development of Methods to Measure Carbon Isotope Ratios of Bacterial Biomarkers in the Environment. <b>1997</b> , 33, 131-144	21
2045	Molecular Methods for the Identification and Enumeration of Bioleaching Microorganisms. <b>1997</b> , 281-297	6
2044	Oligonucleotide probe technology as applied to the study of harmful algal blooms. <b>1997</b> , 31, 551-560	12
2043	16S ribosomal RNA-targeted oligonucleotide probes for monitoring of intestinal tract bacteria. <b>1997</b> , 222, 17-9	35
2042	Depletion of pre-16S rRNA in starved <i>Escherichia coli</i> cells. <b>1997</b> , 179, 4457-63	63
2041	Molecular phylogeny of Archaea from soil. <b>1997</b> , 94, 277-82	278

2040	The actinomycete <i>Thermobispora bispora</i> contains two distinct types of transcriptionally active 16S rRNA genes. <b>1997</b> , 179, 3270-6	123
2039	Phylogenetic Analysis by 16S rRNA Gene Sequencing of Obligate Oligotrophs Isolated from the Northern Basin of Lake Biwa (Mesotrophic Lake).. <b>1997</b> , 12, 27-36	2
2038	Occurrence and identification of microorganisms in compacted clay-based buffer material designed for use in a nuclear fuel waste disposal vault. <b>1997</b> , 43, 1133-46	42
2037	Gut Environment and Evolution of Mutualistic Fermentative Digestion. <b>1997</b> , 13-35	16
2036	The rumen bacteria. <b>1997</b> , 10-72	216
2035	Biomining. <b>1997</b> ,	29
2034	The rumen microbial ecosystem--some recent developments. <b>1997</b> , 5, 483-8	97
2033	Curie-point pyrolysis mass spectrometry as a tool in clinical microbiology. <b>1997</b> , 285, 133-56	15
2032	Compositions isotopiques naturelles des bactéries hétérotrophes et détermination de l'origine du carbone organique dissous biodisponible. <b>1997</b> , 320, 339-347	5
2031	Denitrification in a methanol-fed fixed-bed reactor. Part 2: Composition and ecology of the bacterial community in the biofilms. <b>1997</b> , 31, 1903-1908	41
2030	Sediment bacteria: who's there, what are they doing, and what's new?. <b>1997</b> , 25, 403-34	285
2029	Use of conventional methods and whole cell hybridization to monitor the microbial response to triethylphosphate. <b>1997</b> , 29, 145-151	5
2028	Semi-continuous-flow cultures with marine sediment suspensions containing non-polar carbon sources: culture control by a pneumatic sediment suspension dosage system. <b>1997</b> , 29, 129-137	6
2027	Increasing the efficiency of the plate counting method for estimating bacterial diversity. <b>1997</b> , 30, 111-117	52
2026	Investigation of the potential for microbial contamination of deep granitic aquifers during drilling using 16S rRNA gene sequencing and culturing methods. <b>1997</b> , 30, 179-192	58
2025	Catalysts or contributors? Tracking bacterial mediation of early diagenesis in the marine water column. <b>1997</b> , 26, 531-544	66
2024	Preparation of DNA from numerous individual microscopic organisms for PCR-based assays of environmental samples. <b>1997</b> , 23, 584-6, 588	4
2023	Chapter 1. MICROORGANISMS AND BIOGEOCHEMICAL CYCLES: WHAT CAN WE LEARN FROM LAYERED MICROBIAL COMMUNITIES?. <b>1997</b> , 5-34	26

2022	Modification of a PCR-based site-directed mutagenesis method. <b>1997</b> , 23, 570-1, 574	290
2021	Site-directed mutagenesis: a two-step method using PCR and DpnI. <b>1997</b> , 23, 588-90	86
2020	Isolation and characterization of symbiotic N <sub>2</sub> -fixing <i>Rhizobium meliloti</i> from soils contaminated with aromatic and chloroaromatic hydrocarbons: PAHs and PCBs. <i>International Biodeterioration and Biodegradation</i> , <b>1997</b> , 39, 33-43	4.8 32
2019	Whole cell hybridization as a tool to study <i>Frankia</i> populations in root nodules. <b>1997</b> , 99, 696-706	13
2018	Detection of enterococci with rRNA targeted DNA probes and their use for hygienic drinking water control. <b>1997</b> , 35, 437	11
2017	Microbial 16S rDNA diversity in an anaerobic digester. <b>1997</b> , 36, 49	13
2016	Development of 16S rRNA Oligonucleotide Probes for <i>Brevibacterium</i> , <i>Micrococcus</i> / <i>Arthrobacter</i> and <i>Microbacterium</i> / <i>Aureobacterium</i> Used in Dairy Starter Cultures. <b>1997</b> , 20, 409-417	15
2015	Screening for Genetic Diversity of Isolates of Anaerobic Fe(II)-oxidizing Bacteria Using DGGE and Whole-cell Hybridization. <b>1997</b> , 20, 301-309	146
2014	Marine microbial diversity: the tip of the iceberg. <b>1997</b> , 15, 203-7	76
2013	Environmental biotechnology: monitoring, mobilizing and mineralizing pollution. <b>1997</b> , 15, 280-282	
2012	Selective detection, enumeration and identification of potentially probiotic <i>Lactobacillus</i> and <i>Bifidobacterium</i> species in mixed bacterial populations. <b>1997</b> , 35, 1-27	127
2011	A molecular view of microbial diversity and the biosphere. <b>1997</b> , 276, 734-40	2084
2010	Non-cultivable microorganisms from symbiotic associations of insects and other hosts. <b>1997</b> , 72, 39-48	62
2009	Eukaryotic molecular biodiversity: systematic approaches for the assessment of symbiotic associations. <b>1997</b> , 72, 63-76	14
2008	Fluorescence lifetime characterization of bacteria using total lifetime distribution analysis with the maximum entropy method. <b>1997</b> , 7, 201-210	4
2007	Quantification of the presence and activity of specific microorganisms in nature. <b>1997</b> , 7, 103-20	49
2006	Direct sputum analysis of <i>Pseudomonas aeruginosa</i> macrorestriction fragment genotypes in patients with cystic fibrosis. <b>1997</b> , 186, 93-9	18
2005	<i>Silicibacter lacuscaerulensis</i> gen. nov., sp. nov., a mesophilic moderately halophilic bacterium characteristic of the Blue Lagoon geothermal lake in Iceland. <b>1997</b> , 1, 94-9	62

2004	Detection and Quantification with 16S rRNA Probes of Planktonic Methylophilic Bacteria in a Floodplain Lake. <b>1997</b> , 34, 97-108	22
2003	Rapid method for detecting <i>Desulfitobacterium frappieri</i> strain PCP-1 in soil by the polymerase chain reaction. <b>1997</b> , 47, 719-25	41
2002	Comparison of partial 16S rRNA gene sequences obtained from activated sludge bacteria. <b>1997</b> , 48, 73-9	16
2001	Understanding and advancing wastewater treatment. <b>1997</b> , 8, 328-34	34
2000	Modelling Bacterial Degradation of Organic Compounds with Genetic Networks. <b>1997</b> , 189, 107-19	13
1999	Marine microbial diversity studied via 16S rRNA sequences: cloning results from coastal waters and counting of native archaea with fluorescent single cell probes. <b>1998</b> , 32, 3-15	50
1998	Patterns and governing forces in aquatic microbial communities. <b>1998</b> , 32, 17-35	74
1997	Microsensors as a tool to determine chemical microgradients and bacterial activity in wastewater biofilms and flocs. <b>1998</b> , 9, 159-67	36
1996	DDGGE, a simplified denaturing gradient gel electrophoresis method for the detection of sequence variations in PCR fragments. <b>1998</b> , 12, 263-265	3
1995	Viability and activity in readily culturable bacteria: a review and discussion of the practical issues. <b>1998</b> , 73, 169-87	411
1994	In situ detection of rhodococci associated with activated sludge foams. <b>1998</b> , 74, 41-8	14
1993	rRNA based identification and detection systems for rhizobia and other bacteria. <b>1998</b> , 204, 1-19	40
1992	Phylogenetic analysis of rumen bacteria by comparative sequence analysis of cloned 16S rRNA genes. <b>1998</b> , 4, 153-63	209
1991	16S rDNA sequence diversity of a culture-accessible part of an anaerobic digester bacterial community. <b>1998</b> , 4, 267-75	25
1990	Direct linking of microbial populations to specific biogeochemical processes by <sup>13</sup> C-labelling of biomarkers. <b>1998</b> , 392, 801-805	471
1989	Community structure of biofilms on ennobled stainless steel in Baltic Sea water. <b>1998</b> , 21, 261-274	11
1988	Abundance and spatial organization of Gram-negative sulfate-reducing bacteria in activated sludge investigated by in situ probing with specific 16S rRNA targeted oligonucleotides. <b>1998</b> , 25, 43-61	198
1987	Monitoring the community structure of wastewater treatment plants: a comparison of old and new techniques. <b>1998</b> , 25, 205-215	100



1986	Phospholipid fatty acid profiles and carbon utilization patterns for analysis of microbial community structure under field and greenhouse conditions. <b>1998</b> , 26, 151-163	108
1985	Analysis of bacterial and protozoan communities in an aquifer contaminated with monoaromatic hydrocarbons. <b>1998</b> , 27, 141-152	56
1984	Molecular characterization of a sulfate-reducing consortium which mineralizes benzene. <b>1998</b> , 27, 269-279	123
1983	Community analysis of ammonia-oxidising bacteria, in relation to oxygen availability in soils and root-oxygenated sediments, using PCR, DGGE and oligonucleotide probe hybridisation. <b>1998</b> , 27, 339-350	129
1982	Phylogenetic identification of the symbiotic hypermastigote <i>Trichonympha agilis</i> in the hindgut of the termite <i>Reticulitermes speratus</i> based on small-subunit rRNA sequence. <b>1998</b> , 45, 439-44	51
1981	Nitrous oxide reductase ( <i>nosZ</i> ) gene-specific PCR primers for detection of denitrifiers and three <i>nosZ</i> genes from marine sediments. <b>1998</b> , 162, 61-8	195
1980	A molecular view of microbial diversity in a dynamic landfill in Québec. <b>1998</b> , 162, 219-26	19
1979	Phylogenetic analysis of the symbiotic intestinal microflora of the termite <i>Cryptotermes domesticus</i> . <b>1998</b> , 164, 389-395	75
1978	Combined fluorescent in situ hybridisation and immunolabelling of <i>Bacteroides fragilis</i> . <b>1998</b> , 212, 139-47	11
1977	Overview of gut flora and probiotics. <b>1998</b> , 41, 85-101	552
1976	Microorganisms in the subsurface. <b>1998</b> , 153, 1-22	29
1975	Molecular microbial ecology of nitrification in an activated sludge process treating refinery wastewater. <b>1998</b> , 37, 105	13
1974	Variability of type 021N in activated sludge as determined by substrate uptake pattern and hybridization with fluorescent rRNA targeted probes. <b>1998</b> , 37, 423	20
1973	Design and evaluation of a 16S rRNA-targeted oligonucleotide probe for specific detection and quantitation of human faecal <i>Bacteroides</i> populations. <b>1998</b> , 21, 65-71	137
1972	A qualitative evaluation of the published oligonucleotides specific for the 16S rRNA gene sequences of the ammonia-oxidizing bacteria. <b>1998</b> , 21, 72-88	50
1971	Bacterial phylogeny based on comparative sequence analysis. <b>1998</b> , 19, 554-68	659
1970	Evaluation of sediment slurry microcosms for modeling microbial communities in estuarine sediments. <b>1998</b> , 17, 1274-1281	8
1969	Methanogenic population dynamics during start-up of anaerobic digesters treating municipal solid waste and biosolids. <b>1998</b> , 57, 342-55	260

1968	Darstellung der mikrobiellen Besiedlungsstruktur verschiedener Grundwasserhabitats durch Anwendung molekularbiologischer Methoden. <b>1998</b> , 26, 349-354	15
1967	Molecular phylogenetic identification of the intestinal anaerobic microbial community in the hindgut of the termite, <i>Reticulitermes speratus</i> , without cultivation. <b>1998</b> , 2, 155-61	51
1966	Sicherheitsforschung zu Freisetzungsversuchen in Roggenstein (Bayern). <b>1998</b> , 41, 523-530	2
1965	Microbial Evolution, Diversity, and Ecology: A Decade of Ribosomal RNA Analysis of Uncultivated Microorganisms. <b>1998</b> , 35, 1-21	512
1964	The Use of Carbon Substrate Utilization Patterns in Environmental and Ecological Microbiology. <b>1998</b> , 35, 103-15	239
1963	Phylogenetic Diversity of Archaea and Bacteria in a Deep Subsurface Paleosol. <b>1998</b> , 36, 37-50	104
1962	Estimating the Growth Rate of a Bacterial Species in a Complex Mixture by Hybridization of Genomic DNA. <b>1998</b> , 36, 111-20	2
1961	Microbial Diversity and Community Structure in Two Different Agricultural Soil Communities. <b>1998</b> , 36, 303-315	222
1960	Assessment of the Microbiological Potential for the Natural Attenuation of Petroleum Hydrocarbons in a Shallow Aquifer System. <b>1998</b> , 36, 349-361	52
1959	Use of random amplified polymorphic DNA markers for the detection of <i>Azospirillum</i> strains in soil microcosms. <b>1998</b> , 49, 221-225	13
1958	The sequencing batch reactor as a powerful tool for the study of slowly growing anaerobic ammonium-oxidizing microorganisms. <b>1998</b> , 50, 589-596	1529
1957	Molecular biological access to the chemistry of unknown soil microbes: a new frontier for natural products. <b>1998</b> , 5, R245-9	1173
1956	Biological waste air treatment in biotrickling filters. <b>1998</b> , 9, 256-62	109
1955	Recovery of total microbial RNA from lactic acid fermented foods with a high starch content. <b>1998</b> , 27, 270-274	24
1954	Evaluation of fluorochromes for flow cytometric detection of <i>Cryptosporidium parvum</i> oocysts labelled by fluorescent in situ hybridization. <b>1998</b> , 27, 352-6	16
1953	REVEALING GENETIC DIVERSITY OF EUKARYOTIC MICROORGANISMS IN AQUATIC ENVIRONMENTS BY DENATURING GRADIENT GEL ELECTROPHORESIS. <b>1998</b> , 34, 206-213	80
1952	Microbial community structure and global trace gases. <b>1998</b> , 4, 745-758	210
1951	Rapid method for fluorescent in situ ribosomal RNA labelling of <i>Cryptosporidium parvum</i> . <b>1998</b> , 85, 807-18	30

1950	The role of micro-organisms in the ecological connectivity of running waters. <b>1998</b> , 40, 453-495	174
1949	A molecular view of microbial diversity in a dynamic landfill in Québec. <b>1998</b> , 162, 219-226	16
1948	Phylogenetic position of symbiotic protist <i>Dinenympha</i> [correction of <i>Dinemympha</i> ] <i>exilis</i> in the hindgut of the termite <i>Reticulitermes speratus</i> inferred from the protein phylogeny of elongation factor 1 alpha. <b>1998</b> , 210, 221-7	43
1947	Direct fingerprinting of metabolically active bacteria in environmental samples by substrate specific radiolabelling and lipid analysis. <b>1998</b> , 31, 99-111	40
1946	Distinguishing between living and nonliving bacteria: Evaluation of the vital stain propidium iodide and its combined use with molecular probes in aquatic samples. <b>1998</b> , 32, 225-236	128
1945	Molecular-based methods can contribute to assessments of toxicological risks and bioremediation strategies. <b>1998</b> , 32, 107-119	27
1944	Nucleic acid analytical approaches in bioremediation: site assessment and characterization. <b>1998</b> , 32, 165-178	46
1943	Diversity of deep-sea hydrothermal vent Archaea from Loihi Seamount, Hawaii. <b>1998</b> , 45, 303-317	67
1942	Numerical analysis of planktonic and reed biofilm bacterial communities of Lake Fertő (Neusiedlersee, Hungary/Austria). <b>1998</b> , 32, 1831-1840	18
1941	Formation and bacterial composition of young, natural biofilms obtained from public bank-filtered drinking water systems. <b>1998</b> , 32, 2787-2797	95
1940	Molecular methods for the study of methanotroph ecology. <b>1998</b> , 27, 103-114	70
1939	Interactions between Metals and Microbial Communities in New Bedford Harbor, Massachusetts. <b>1998</b> , 106, 1033	5
1938	Effects of swine manure fertilization on autotrophic ammonia oxidizing bacteria in soil. <b>1998</b> , 7, 149-157	24
1937	Epistemology of Environmental Microbiology. <b>1998</b> , 32, 429-439	85
1936	Specific detection of the genus <i>Serpulina</i> , <i>S. hyodysenteriae</i> and <i>S. pilosicoli</i> in porcine intestines by fluorescent rRNA in situ hybridization. <b>1998</b> , 12, 323-30	43
1935	Interactions of Gramineous Plants with <i>Azoarcus</i> spp. and Other Diazotrophs: Identification, Localization, and Perspectives to Study their Function. <b>1998</b> , 17, 29-54	94
1934	Novel techniques for analysing microbial diversity in natural and perturbed environments. <b>1998</b> , 64, 53-62	347
1933	Use of Molecular Methods for Identification and in situ Studies of Diazotrophic Plant Colonizing Bacteria. <b>1998</b> , 379-380	

1932	Distribution of thiobacillus ferrooxidans and leptospirillum ferrooxidans: implications for generation of acid mine drainage. <b>1998</b> , 279, 1519-22	265
1931	Evidence against hydrogen-based microbial ecosystems in basalt aquifers. <b>1998</b> , 281, 976-7	64
1930	The tmRNA Website. <b>1998</b> , 26, 163-5	31
1929	Monitoring a widespread bacterial group: in situ detection of planctomycetes with 16S rRNA-targeted probes. <b>1998</b> , 144 ( Pt 12), 3257-3266	427
1928	In situ identification of nocardioform actinomycetes in activated sludge using fluorescent rRNA-targeted oligonucleotide probes. <b>1998</b> , 144 ( Pt 1), 249-259	70
1927	Commensal communism and the oral cavity. <b>1998</b> , 77, 1674-83	38
1926	Staphylococcus condimenti sp. nov., from soy sauce mash, and Staphylococcus carnosus (Schleifer and Fischer 1982) subsp. utilis subsp. nov. <b>1998</b> , 48 Pt 3, 651-8	61
1925	Division of the genus Enterococcus into species groups using PCR-based molecular typing methods. <b>1998</b> , 144 ( Pt 5), 1171-1179	49
1924	Revised Classification Scheme of Phytoplasmas based on RFLP Analyses of 16S rRNA and Ribosomal Protein Gene Sequences. <b>1998</b> , 48, 1153-1169	635
1923	rRNA-targeted fluorescent in situ hybridization analysis of bacterial community structure in river water. <b>1998</b> , 144 ( Pt 8), 2085-2093	84
1922	In situ detection of bacteria in continuous-flow cultures of seawater sediment suspensions with fluorescently labelled rRNA-directed oligonucleotide probes. <b>1998</b> , 144 ( Pt 10), 2783-2790	13
1921	PAGE analysis of the heteroduplexes formed between PCR-amplified 16S rRNA genes: estimation of sequence similarity and rDNA complexity. <b>1998</b> , 144 ( Pt 6), 1611-1617	53
1920	A bacterial cytokine. <b>1998</b> , 95, 8916-21	343
1919	Rapid Estimation of Population Densities of Uncultured Bacteria in the Environment.. <b>1998</b> , 13, 123-127	4
1918	Molecular phylogentic analysis of a bacterial community in Sulphur River, Parker Cave, Kentucky. <b>1998</b> , 83, 1583-1592	76
1917	The double helix meets the crystal lattice; the power and pitfalls of nucleic acid approaches for biomineralogical investigations. <b>1998</b> , 83, 1593-1607	9
1916	Assessment of biodegradative potential and activity in contaminated sites: molecular approaches to environmental monitoring. <b>1998</b> , 26, 694-7	2
1915	Interactions between metals and microbial communities in New Bedford Harbor, Massachusetts. <b>1998</b> , 106 Suppl 4, 1033-9	2

1914	Use of 16S rDNA community fingerprints to study cricket hindgut microbial communities. <b>1998</b> , 44, 119-127	6
1913	A highly selective PCR protocol for detecting 16S rRNA genes of the genus <i>Pseudomonas</i> ( <i>sensu stricto</i> ) in environmental samples. <b>1998</b> , 64, 2545-53	189
1912	Novel division level bacterial diversity in a Yellowstone hot spring. <b>1998</b> , 180, 366-76	754
1911	A new approach to utilize PCR-single-strand-conformation polymorphism for 16S rRNA gene-based microbial community analysis. <b>1998</b> , 64, 4870-6	551
1910	In situ gene expression in mixed-culture biofilms: evidence of metabolic interactions between community members. <b>1998</b> , 64, 721-32	269
1909	Biodegradation of metal-EDTA complexes by an enriched microbial population. <b>1998</b> , 64, 1319-22	69
1908	Phylogenetic analysis of nonthermophilic members of the kingdom crenarchaeota and their diversity and abundance in soils. <b>1998</b> , 64, 4333-9	170
1907	Establishment of new genetic traits in a microbial biofilm community. <b>1998</b> , 64, 2247-55	255
1906	Variations of bacterial populations in human feces measured by fluorescent in situ hybridization with group-specific 16S rRNA-targeted oligonucleotide probes. <b>1998</b> , 64, 3336-45	874
1905	Quinone profiling of bacterial communities in natural and synthetic sewage activated sludge for enhanced phosphate removal. <b>1998</b> , 64, 992-8	130
1904	Identification and activities in situ of <i>Nitrosospira</i> and <i>Nitrospira</i> spp. as dominant populations in a nitrifying fluidized bed reactor. <b>1998</b> , 64, 3480-5	384
1903	Enumeration and detection of anaerobic ferrous iron-oxidizing, nitrate-reducing bacteria from diverse European sediments. <b>1998</b> , 64, 4846-56	158
1902	Impact of culture-independent studies on the emerging phylogenetic view of bacterial diversity. <b>1998</b> , 180, 4765-74	1908
1901	Diversity and structure of the methanogenic community in anoxic rice paddy soil microcosms as examined by cultivation and direct 16S rRNA gene sequence retrieval. <b>1998</b> , 64, 960-9	594
1900	Temperature gradient gel electrophoresis analysis of 16S rRNA from human fecal samples reveals stable and host-specific communities of active bacteria. <b>1998</b> , 64, 3854-9	1087
1899	Microbial diversity in a hydrocarbon- and chlorinated-solvent-contaminated aquifer undergoing intrinsic bioremediation. <b>1998</b> , 64, 3869-77	634
1898	Determination of bacterial cell dry mass by transmission electron microscopy and densitometric image analysis. <b>1998</b> , 64, 688-94	280
1897	A natural view of microbial biodiversity within hot spring cyanobacterial mat communities. <b>1998</b> , 62, 1353-70	428

1896	Growth kinetics of suspended microbial cells: from single-substrate-controlled growth to mixed-substrate kinetics. <b>1998</b> , 62, 646-66	494
1895	Fluorescent Polymerase Chain Reaction/Restriction Fragment Length Polymorphism Monitoring of Genes Amplified Directly from Bacterial Communities in Soils and Sediments. <b>1999</b> , 127-138	1
1894	Empirical midpoint dissociation temperature (Td) determination for oligonucleotide probes using a PCR thermal cyclers. <b>1999</b> , 27, 666-8, 670	1
1893	Homology cloning. <b>1999</b> , 377-391	
1892	Bacterial diversity in agroecosystems. <b>1999</b> , 65-76	9
1891	DNA Microchip-Based Microbial Monitoring. <b>1999</b> ,	
1890	Molecular analysis of ammonia-oxidizing bacteria of the beta subdivision of the class Proteobacteria in compost and composted materials. <b>1999</b> , 65, 396-403	198
1889	Quantification of bias related to the extraction of DNA directly from soils. <b>1999</b> , 65, 5409-20	378
1888	How stable is stable? Function versus community composition. <b>1999</b> , 65, 3697-704	408
1887	Identification of a novel group of bacteria in sludge from a deteriorated biological phosphorus removal reactor. <b>1999</b> , 65, 1251-8	201
1886	Polynucleotide probes that target a hypervariable region of 16S rRNA genes to identify bacterial isolates corresponding to bands of community fingerprints. <b>1999</b> , 65, 1045-9	127
1885	Combination of fluorescent in situ hybridization and microautoradiography-a new tool for structure-function analyses in microbial ecology. <b>1999</b> , 65, 1289-97	547
1884	Quantifying microbial diversity: morphotypes, 16S rRNA genes, and carotenoids of oxygenic phototrophs in microbial mats. <b>1999</b> , 65, 422-30	214
1883	Counting and size classification of active soil bacteria by fluorescence in situ hybridization with an rRNA oligonucleotide probe. <b>1999</b> , 65, 1753-61	130
1882	Visualization and enumeration of marine planktonic archaea and bacteria by using polyribonucleotide probes and fluorescent in situ hybridization. <b>1999</b> , 65, 5554-63	230
1881	Vertical distribution of methanogens in the anoxic sediment of Rotsee (Switzerland). <b>1999</b> , 65, 2402-8	120
1880	Spatial heterogeneity of bacterial populations along an environmental gradient at a shallow submarine hydrothermal vent near Milos Island (Greece). <b>1999</b> , 65, 3834-42	118
1879	In situ identification of cyanobacteria with horseradish peroxidase-labeled, rRNA-targeted oligonucleotide probes. <b>1999</b> , 65, 1259-67	110

1878	Microscale distribution of populations and activities of <i>Nitrosospira</i> and <i>Nitrospira</i> spp. along a macroscale gradient in a nitrifying bioreactor: quantification by in situ hybridization and the use of microsensors. <b>1999</b> , 65, 3690-6	394
1877	Quantification of syntrophic fatty acid-beta-oxidizing bacteria in a mesophilic biogas reactor by oligonucleotide probe hybridization. <b>1999</b> , 65, 4767-74	76
1876	Molecular characterization of functional and phylogenetic genes from natural populations of methanotrophs in lake sediments. <b>1999</b> , 65, 5066-74	426
1875	Diversity of sulfate-reducing bacteria in oxic and anoxic regions of a microbial mat characterized by comparative analysis of dissimilatory sulfite reductase genes. <b>1999</b> , 65, 4666-71	157
1874	Seasonal variations in microbial populations and environmental conditions in an extreme acid mine drainage environment. <b>1999</b> , 65, 3627-32	173
1873	PCR detection of genes encoding nitrite reductase in denitrifying bacteria. <b>1999</b> , 65, 1652-7	310
1872	Bacterioplankton compositions of lakes and oceans: a first comparison based on fluorescence in situ hybridization. <b>1999</b> , 65, 3721-6	642
1871	Effect of phenylurea herbicides on soil microbial communities estimated by analysis of 16S rRNA gene fingerprints and community-level physiological profiles. <b>1999</b> , 65, 982-8	292
1870	Methanotroph diversity in landfill soil: isolation of novel type I and type II methanotrophs whose presence was suggested by culture-independent 16S ribosomal DNA analysis. <b>1999</b> , 65, 4887-97	150
1869	Microbial biomass and activity in lead-contaminated soil. <b>1999</b> , 65, 2256-9	96
1868	Identification of <i>Lactobacillus</i> isolates from the gastrointestinal tract, silage, and yoghurt by 16S-23S rRNA gene intergenic spacer region sequence comparisons. <b>1999</b> , 65, 4264-7	124
1867	On the occurrence of anoxic microniches, denitrification, and sulfate reduction in aerated activated sludge. <b>1999</b> , 65, 4189-96	110
1866	Flow Cytometry and Cell Sorting: Rapid Analysis and Separation of Individual Bacterial Cells from Natural Environments. <b>1999</b> , 55-74	
1865	Fluorescent In Situ Hybridization and the Analysis of the Single Cell. 221-236	1
1864	Conventional and molecular methods for understanding probiotic bacteria functionality in gastrointestinal tracts. <b>1999</b> , 25, 19-38	56
1863	Emended description of the order Chlamydiales, proposal of Parachlamydiaceae fam. nov. and Simkaniaceae fam. nov., each containing one monotypic genus, revised taxonomy of the family Chlamydiaceae, including a new genus and five new species, and standards for the identification of organisms. <b>1999</b> , 49 Pt 2, 415-40	684
1862	Highlights of Nitrogen Fixation Research. <b>1999</b> ,	
1861	Enigmatic Microorganisms and Life in Extreme Environments. <b>1999</b> ,	22

1860	Four intracellular genomes direct weevil biology: nuclear, mitochondrial, principal endosymbiont, and Wolbachia. <b>1999</b> , 96, 6814-9	243
1859	Microbial methods for assessing contaminant effects in sediments. <b>1999</b> , 159, 41-93	9
1858	Application of Taxonomy and Systematics to Molecular Techniques in Intestinal Microbiology. <b>1999</b> , 167-190	4
1857	<i>Haloanaerobacter salinarius</i> sp. nov., a novel halophilic fermentative bacterium that reduces glycine-betaine to trimethylamine with hydrogen or serine as electron donors; emendation of the genus <i>Haloanaerobacter</i> . <b>1999</b> , 49 Pt 1, 103-12	45
1856	Colonic Microbiota, Nutrition and Health. <b>1999</b> ,	33
1855	Molecular approaches to the study of aquatic microbial communities. <b>1999</b> , 10, 220-4	10
1854	16S rDNA methods in soil microbiology. <b>1999</b> , 10, 225-9	32
1853	New perspectives towards analysing fungal communities in terrestrial environments. <b>1999</b> , 10, 247-51	32
1852	Origins and fate of fungi and bacteria in the gut of <i>Lumbricus terrestris</i> L. studied by image analysis. <b>1999</b> , 28, 235-248	83
1851	Enumeration and metabolic product profiles of the anaerobic microflora in the mineral soil and litter of a beech forest. <b>1999</b> , 29, 91-103	39
1850	Structure and function of the methanogenic archaeal community in stable cellulose-degrading enrichment cultures at two different temperatures (15 and 30°C). <b>1999</b> , 30, 313-326	6
1849	Phylogeny and in situ identification of a morphologically conspicuous bacterium, <i>Candidatus Magnospira bakii</i> , present at very low frequency in activated sludge. <b>1999</b> , 1, 125-35	30
1848	Anaerobic utilization of alkylbenzenes and n-alkanes from crude oil in an enrichment culture of denitrifying bacteria affiliating with the beta-subclass of Proteobacteria. <b>1999</b> , 1, 145-57	94
1847	Microbial characterization of a JP-4 fuel-contaminated site using a combined lipid biomarker/polymerase chain reaction--denaturing gradient gel electrophoresis (PCR-DGGE)-based approach. <b>1999</b> , 1, 231-41	61
1846	rRNA probe-based cell fishing of bacteria. <b>1999</b> , 1, 259-71	25
1845	Application of molecular tools for in situ monitoring of bacterial growth activity. <b>1999</b> , 1, 383-91	75
1844	Fluorescence in situ hybridization analysis of the prokaryotic community inhabiting crystallizer ponds. <b>1999</b> , 1, 517-23	167
1843	Acetone preservation: a practical technique for molecular analysis. <b>1999</b> , 8, 1935-45	180



1842	Dynamics of multigene expression during catabolic adaptation of <i>Ralstonia eutropha</i> JMP134 (pJP4) to the herbicide 2, 4-dichlorophenoxyacetate. <b>1999</b> , 33, 396-406	61
1841	Analysis of brevibacteria on the surface of Gruyère cheese detected by in situ hybridization and by colony hybridization. <b>1999</b> , 29, 317-322	22
1840	GC-SIM-MS DETECTION AND QUANTIFICATION OF FREE INDOLE-3-ACETIC ACID IN BACTERIAL GALLS ON THE MARINE ALGA PRIONITIS LANCEOLATA (RHODOPHYTA). <b>1999</b> , 35, 493-500	34
1839	Functionality of probiotics and intestinal lactobacilli: light in the intestinal tract tunnel. <b>1999</b> , 10, 505-10	73
1838	Editorial. <b>1999</b> , 126, 5-8	6
1837	Phylogenetic diversity of methanogenic archaea in swine waste storage pits. <b>1999</b> , 179, 223-6	67
1836	Restriction site insertion-PCR (RSI-PCR) for rapid discrimination and typing of closely related microbial strains. <b>1999</b> , 180, 77-83	9
1835	Monitoring the conjugal transfer of plasmid RP4 in activated sludge and in situ identification of the transconjugants. <b>1999</b> , 174, 9-17	61
1834	Seasonal changes in ribosomal RNA of sulfate-reducing bacteria and sulfate reducing activity in a freshwater lake sediment. <b>1999</b> , 28, 31-39	52
1833	Molecular diversity of thermophilic cellulolytic and hemicellulolytic bacteria. <b>1999</b> , 28, 99-110	55
1832	Origins and fate of fungi and bacteria in the gut of <i>Lumbricus terrestris</i> L. studied by image analysis. <b>1999</b> , 28, 235-248	17
1831	Evaluation of cell activity and of methods for the cultivation of bacteria from a natural lake community. <b>1999</b> , 28, 249-259	52
1830	Enumeration and metabolic product profiles of the anaerobic microflora in the mineral soil and litter of a beech forest. <b>1999</b> , 29, 91-103	7
1829	Rumen bacterial diversity as determined by sequence analysis of 16S rDNA libraries. <b>1999</b> , 29, 159-169	222
1828	<i>Thermus</i> diversity and strain loss during enrichment. <b>1999</b> , 30, 157-162	4
1827	Analysis of bacterial communities in heavy metal-contaminated soils at different levels of resolution. <b>1999</b> , 30, 237-251	202
1826	Small ribosomal RNA content in marine Proteobacteria during non-steady-state growth. <b>1999</b> , 30, 253-260	97
1825	Structure and function of the methanogenic archaeal community in stable cellulose-degrading enrichment cultures at two different temperatures (15 and 30 degrees C). <b>1999</b> , 30, 313-326	50

1824	Investigation of actinomycete diversity in the tropical rainforests of Singapore. <b>1999</b> , 23, 178-187	55
1823	Detection of sphingomonads and in situ identification in activated sludge using 16S rRNA-targeted oligonucleotide probes. <b>1999</b> , 23, 261-267	76
1822	Genetic exchange between bacteria in the environment. <b>1999</b> , 42, 73-91	513
1821	Analysis of the intestinal microflora: a renaissance. <b>1999</b> , 76, 265-278	106
1820	Variability in bacterial community structure during upwelling in the coastal ocean. <b>1999</b> , 401, 139-148	30
1819	Flow cytometry in molecular aquatic ecology. <b>1999</b> , 401, 34-54	28
1818	Microscopic detection of the toluene dioxygenase gene and its expression inside bacterial cells in seawater using prokaryotic in situ PCR. <b>1999</b> , 401, 131-138	12
1817	Isolation and characterization of diazotrophic bacteria from banana and pineapple plants. <b>1999</b> , 210, 103-113	76
1816	Thermophilic bacterial communities in hot composts as revealed by most probable number counts and molecular (16S rDNA) methods. <b>1999</b> , 28, 141-149	73
1815	Searching for predominant soil bacteria: 16S rDNA cloning versus strain cultivation. <b>1999</b> , 30, 137-145	99
1814	The search for unrecognized pathogens. <b>1999</b> , 284, 1308-10	180
1813	Characterizing Microorganisms in the Environment by Fatty Acid Analysis. <b>1999</b> , 201-220	
1812	The bowel microflora: an important source of urinary tract pathogens. <b>1999</b> , 17, 339-44	16
1811	Horizontal gene transfer among bacteria in terrestrial and aquatic habitats as assessed by microcosm and field studies. <b>1999</b> , 29, 221-245	85
1810	Microbial diversity in the marine sponge <i>Aplysina cavernicola</i> (formerly <i>Verongia cavernicola</i> ) analyzed by fluorescence in situ hybridization (FISH). <b>1999</b> , 134, 461-470	133
1809	The Impact of Oxygen Tension on Cell Density and Metabolic Diversity of Microbial Communities in Alkane Degrading Continuous-Flow Cultures. <b>1999</b> , 37, 70-77	12
1808	Phylogenetic Diversity and Population Densities of Culturable Cellulolytic Soil Bacteria across an Agricultural Encatchment. <b>1999</b> , 37, 238-247	32
1807	Phylogenetic Composition, Spatial Structure, and Dynamics of Lotic Bacterial Biofilms Investigated by Fluorescent in Situ Hybridization and Confocal Laser Scanning Microscopy. <b>1999</b> , 37, 225-237	146

1806	Diversity of Microorganisms Isolated from Amber. <b>1999</b> , 38, 58-68		55
1805	Occurrence of Two Resin Acid-Degrading Bacteria and a Gene Encoding Resin Acid Biodegradation in Pulp and Paper Mill Effluent Biotreatment Systems Assayed by PCR. <b>1999</b> , 38, 114-125		16
1804	Phylogenetic study of methanogens associated with rumen ciliates. <b>1999</b> , 39, 123-8		72
1803	DNA extraction from activated sludges. <b>1999</b> , 38, 315-9		43
1802	Specific detection of green sulfur bacteria by in situ hybridization with a fluorescently labeled oligonucleotide probe. <i>Archives of Microbiology</i> , <b>1999</b> , 171, 265-72	3	40
1801	Specific detection of different phylogenetic groups of chemocline bacteria based on PCR and denaturing gradient gel electrophoresis of 16S rRNA gene fragments. <i>Archives of Microbiology</i> , <b>1999</b> , 172, 83-94	3	84
1800	<i>Chlorobium ferrooxidans</i> sp. nov., a phototrophic green sulfur bacterium that oxidizes ferrous iron in coculture with a "Geospirillum" sp. strain. <i>Archives of Microbiology</i> , <b>1999</b> , 172, 116-24	3	160
1799	Aerobic turnover of dimethyl sulfide by the anoxygenic phototrophic bacterium <i>thiocapsa roseopersicina</i> . <i>Archives of Microbiology</i> , <b>1999</b> , 172, 150-6	3	12
1798	Differential enumeration and in situ localization of microorganisms in the hindgut of the lower termite <i>mastotermes darwiniensis</i> by hybridization with rRNA-targeted probes. <i>Archives of Microbiology</i> , <b>1999</b> , 172, 407-16	3	75
1797	Novel archaeal phylotypes from an East African alkaline saltern. <b>1999</b> , 3, 139-45		97
1796	The Earth's bounty: assessing and accessing soil microbial diversity. <b>1999</b> , 17, 403-9		152
1795	Bacterial diversity in agroecosystems. <b>1999</b> , 74, 65-76		165
1794	Analysis of the bacterial surface ripening flora of German and French smeared cheeses with respect to their anti-listerial potential. <b>1999</b> , 47, 89-97		48
1793	Millennium bugs. <b>1999</b> , 15, M2-M5		2
1792	In situ detection of <i>Escherichia coli</i> cells containing ColE1-related plasmids by hybridization to regulatory RNA II. <b>1999</b> , 22, 1-8		9
1791	The domain-specific probe EUB338 is insufficient for the detection of all Bacteria: development and evaluation of a more comprehensive probe set. <b>1999</b> , 22, 434-44		1815
1790	Enrichment, phylogenetic analysis and detection of a bacterium that performs enhanced biological phosphate removal in activated sludge. <b>1999</b> , 22, 454-65		303
1789	Specific oligonucleotide probes for in situ detection of a major group of gram-positive bacteria with low DNA G + C content. <b>1999</b> , 22, 186-96		282

1788	Identification of <i>Staphylococcus carnosus</i> and <i>Staphylococcus warneri</i> isolated from meat by fluorescent in situ hybridization with 16S rRNA-targeted oligonucleotide probes. <b>1999</b> , 22, 225-8	13
1787	The response of the microbial community of marine sediments to organic carbon input under anaerobic conditions. <b>1999</b> , 22, 237-48	80
1786	Interfacing phylogenetic oligonucleotide probe hybridizations with representations of microbial populations and specific growth rates in mathematical models of activated sludge processes. <b>1999</b> , 39, 11	1
1785	Monitoring sulfate-reducing bacteria in heterotrophic biofilms. <b>1999</b> , 39, 49	5
1784	Millennium bugs. <b>1999</b> , 9, M2-M5	9
1783	Millennium bugs. <b>1999</b> , 24, M2-M5	12
1782	Isoprenoid quinones as biomarkers of microbial populations in the environment. <b>1999</b> , 88, 449-60	111
1781	Taxon-specific content of oligonucleotide triplets in 16S rRNAs of anoxygenic phototrophic and nitrifying bacteria. <b>1999</b> , 196, 289-96	7
1780	Reviews of Environmental Contamination and Toxicology. <b>1999</b> ,	1
1779	The distribution and relative abundance of ammonia-oxidizing bacteria in lakes of the McMurdo Dry Valley, Antarctica. <b>1999</b> , 113-130	
1778	Taxonomy and Systematics of Predominant Gut Anaerobes. <b>1999</b> , 149-166	3
1777	Lactic Acid Bacteria: Genetics, Metabolism and Applications. <b>1999</b> ,	9
1776	Mycorrhiza. <b>1999</b> ,	8
1775	Screening for Novel Enzymes. <b>1999</b> , 1-29	38
1774	Biological impact on mineral dissolution: application of the lichen model to understanding mineral weathering in the rhizosphere. <b>1999</b> , 96, 3404-11	403
1773	Characterization of metal-resistant soil eubacteria by polymerase chain reaction--denaturing gradient gel electrophoresis with isolation of resistant strains. <b>1999</b> , 45, 116-24	15
1772	Distribution of viable and non-viable bacteria in the gastrointestinal tract of gnotobiotic and conventional rats. <b>1999</b> , 11, 218-225	11
1771	Distribution and Metabolic Diversity of Microorganisms in Deep Igneous Rock Aquifers of Finland. <b>1999</b> , 16, 277-294	73

- 1770 DGGE/TGGE a method for identifying genes from natural ecosystems. **1999**, 2, 317-22 663
- 1769 Terminal restriction fragment length polymorphism (T-RFLP): an emerging method for characterizing diversity among homologous populations of amplification products. **1999**, 2, 323-7 330
- 1768 Opening the black box of soil microbial diversity. **1999**, 13, 109-122 327
- 1767 Nucleic acid extraction from polluted estuarine water for detection of viruses and bacteria by PCR and RT-PCR analysis. **1999**, 150, 143-51 10
- 1766 Molecular approaches to study probiotic bacteria. **1999**, 10, 400-404 26
- 1765 Quantitative imaging and statistical analysis of fluorescence in situ hybridization (FISH) of *Aureobasidium pullulans*. **1999**, 35, 101-10 27
- 1764 Use of the 16S–23S ribosomal genes spacer region in studies of prokaryotic diversity. **1999**, 36, 55-64 184
- 1763 Reviewing the DA001-files: a 16S rRNA chase on suspect #X99967, a *Bacillus* and Dutch underground activist. **1999**, 36, 77-93 11
- 1762 Actinomycetes in Karstic caves of northern Spain (Altamira and Tito Bustillo). **1999**, 36, 115-22 118
- 1761 Amplification of fluorescently labelled DNA within gram-positive and acid-fast bacteria. **1999**, 38, 53-62 6
- 1760 Des inconnus sous nos pieds. **1999**, 1999, 14-16
- 1759 The application of rumen biotechnology to improve the nutritive value of fibrous feedstuffs: pre- and post-ingestion. **1999**, 59, 265-283 13
- 1758 Detection of *Alloiococcus otitis* in mixed bacterial populations from middle-ear effusions of patients with otitis media. **1999**, 354, 386-9 40
- 1757 Degradation of the phosphonate herbicide glyphosate in soil: evidence for a possible involvement of unculturable microorganisms. **1999**, 31, 991-997 81
- 1756 Isolation and characterization of *Arthrobacter* sp. from activated sludge of a pulp and paper mill. **1999**, 33, 947-950 9
- 1755 Population dynamics in anaerobic wastewater reactors: modelling and in situ characterization. **1999**, 33, 2392-2402 34
- 1754 A 16S rRNA-targeted Probe for Detection of *Lactobacilli* and *Enterococci* in Faecal Samples by Fluorescent In Situ Hybridization. **1999**, 11, 3-12 245
- 1753 Poles apart: biodiversity and biogeography of sea ice bacteria. **1999**, 53, 189-215 263

1752	The distribution and relative abundance of ammonia-oxidizing bacteria in lakes of the McMurdo Dry Valley, Antarctica. <b>1999</b> , 401, 113-130	53
1751	In Situ Characterization of Extracellular Polymeric Substances (EPS) in Biofilm Systems. <b>1999</b> , 21-47	22
1750	Bacterial viability and culturability. <b>1999</b> , 41, 93-137	249
1749	Environmental Monitoring of Bacteria. <b>1999</b> ,	4
1748	Adaptive responses of <i>Ralstonia eutropha</i> to feast and famine conditions analysed by flow cytometry. <b>1999</b> , 75, 81-97	49
1747	Size and Fluorescence Measurements for Field Detection of Biological Aerosols. <b>1999</b> , 30, 174-185	79
1746	Geomicrobiology of Pyrite (FeS <sub>2</sub> ) Dissolution: Case Study at Iron Mountain, California. <b>1999</b> , 16, 155-179	136
1745	Actinomycetes in Hypogean Environments. <b>1999</b> , 16, 1-8	75
1744	Quantification of the human granulocytic ehrlichiosis agent based on analysis of rRNA isolated from control and infected HL-60 cells. <b>1999</b> , 262, 7-13	
1743	Oligonucleotides as hybridization probes to localize phytoplasmas in host plants and insect vectors. <b>1999</b> , 89, 894-901	25
1742	Estimation of Microbial Viability Using Flow Cytometry. <b>1999</b> , 7, 11.3.1	3
1741	Developmental microbial ecology of the neonatal gastrointestinal tract. <b>1999</b> , 69, 1035S-1045S	866
1740	Probiotics, prebiotics, and synbiotics: approaches for modulating the microbial ecology of the gut. <b>1999</b> , 69, 1052S-1057S	546
1739	MICROBIAL COMMUNITY ANALYSIS OF THERMOPHILIC CONTACT OXIDATION PROCESS TREATMENT WITH EDIBLE OIL BY USING FISH, QUINONE PROFILE AND PCR-DGGE METHOD. <b>1999</b> , 1999, 23-33	2
1738	Molecular Biology: A Linkage between Microbial Ecology, General Ecology and Organismal Biology. <b>1999</b> , 85, 177	12
1737	Effects of inulin on faecal bifidobacteria in human subjects. <b>1999</b> , 82, 375-82	231
1736	The effect of a model melanoidin mixture on faecal bacterial populations in vitro. <b>1999</b> , 82, 489-495	106
1735	Functional somatic syndromes. <b>2000</b> , 132, 329; author reply 329-30	1

1734	Functional somatic syndromes. <b>2000</b> , 132, 328; author reply 329-30	1
1733	Multispectral bacterial identification. <b>2000</b> ,	1
1732	Comparison of the oral bacterial flora in saliva from a healthy subject and two periodontitis patients by sequence analysis of 16S rDNA libraries. <b>2000</b> , 44, 643-52	94
1731	A LABORATORY SCALE STUDY OF NITRIFICATION USING TRADITIONAL AND MOLECULAR ANALYTICAL TECHNIQUES. <b>2000</b> , 2000, 332-341	
1730	The role of nutrients in decomposition of a thecate dinoflagellate. <b>2000</b> , 45, 123-130	10
1729	Use of 16S-rRNA to investigate microbial population dynamics during biodegradation of toluene and phenol by a binary culture. <b>2000</b> , 70, 436-445	13
1728	Two and three-color fluorescence flow cytometric analysis of immunoidentified viable bacteria. <b>2000</b> , 40, 214-218	125
1727	Number of triplets in 16S rRNA gene related with pathogenicity of Bacillus spp. and Clostridium spp. <b>2000</b> , 205, 581-6	0
1726	Abschätzung der Eignung einer molekularbiologischen Methode zur Charakterisierung der Grundwasserbiozönose. <b>2000</b> , 28, 250-255	2
1725	Cultivability of microorganisms introduced into a compacted bentonite clay buffer under high-level radioactive waste repository conditions. <b>2000</b> , 58, 149-161	43
1724	FLOW CYTOMETRY AND THE SINGLE CELL IN PHYCOLOGY. <b>2000</b> , 36, 628-644	97
1723	Population and community level approaches for analysing microbial diversity in natural environments. <b>2000</b> , 3, 236-251	120
1722	Desulfotomaculum genus- and subgenus-specific 16S rRNA hybridization probes for environmental studies. <b>2000</b> , 2, 143-59	38
1721	Ecological study of a bioaugmentation failure. <b>2000</b> , 2, 179-90	231
1720	Changes in community composition during dilution cultures of marine bacterioplankton as assessed by flow cytometric and molecular biological techniques. <b>2000</b> , 2, 191-201	125
1719	Matching molecular diversity and ecophysiology of benthic cyanobacteria and diatoms in communities along a salinity gradient. <b>2000</b> , 2, 217-26	85
1718	Studies on the in situ physiology of Thiothrix spp. present in activated sludge. <b>2000</b> , 2, 389-98	99
1717	Detection of abundant sulphate-reducing bacteria in marine oxic sediment layers by a combined cultivation and molecular approach. <b>2000</b> , 2, 417-27	59

1716	Characterization of depth-related population variation in microbial communities of a coastal marine sediment using 16S rDNA-based approaches and quinone profiling. <b>2000</b> , 2, 542-54	108
1715	Bacterial chromosomal painting for in situ monitoring of cultured marine bacteria. <b>2000</b> , 2, 654-65	14
1714	Microenvironments and distribution of nitrifying bacteria in a membrane-bound biofilm. <b>2000</b> , 2, 680-6	203
1713	Microbiology of the 'G-bacteria' in activated sludge. <b>2000</b> , 2, 581-93	50
1712	Interaction of <i>Bartonella henselae</i> with endothelial cells results in rapid bacterial rRNA synthesis and replication. <b>2000</b> , 2, 431-41	62
1711	Viability of <i>Escherichia coli</i> O157:H7 in natural river water determined by the use of flow cytometry. <b>2000</b> , 88, 228-36	44
1710	A fluorescently-labelled r-RNA targeted oligonucleotide probe for the in situ detection of G-bacteria of the genus <i>Amaricoccus</i> in activated sludge. <b>2000</b> , 88, 826-35	30
1709	Use of the MIDI-FAME technique to characterize groundwater communities. <b>2000</b> , 88, 711-9	28
1708	Microbial succession during a composting process as evaluated by denaturing gradient gel electrophoresis analysis. <b>2000</b> , 89, 768-77	193
1707	Comparative analyses of the bacterial diversity on two different biodeteriorated wall paintings by DGGE and 16S rDNA sequence analysis. <i>International Biodeterioration and Biodegradation</i> , <b>2000</b> , 46, 229-239	98
1706	Investigation of 0.2 $\mu$ m filterable bacteria from the Western Mediterranean Sea using a molecular approach: dominance of potential starvation forms. <b>2000</b> , 31, 153-161	6
1705	Detection of heavy metals in bacterial biofilms and microbial flocs with the fluorescent complexing agent Newport Green. <b>2000</b> , 24, 116-123	36
1704	Measurement of potential activity of fixed nitrifying bacteria in biological filters used in drinking water production. <b>2000</b> , 24, 161-166	17
1703	Rice, microbes and methane. <b>2000</b> , 403, 375, 377	152
1702	100 and 50 years ago. <b>2000</b> , 403, 375-375	108
1701	Detection of nematode antagonistic bacteria by fluorogenic molecular probes*. <b>2000</b> , 30, 563-569	5
1700	Fluorescent oligonucleotide rDNA probes for specific detection of methane oxidising bacteria. <b>2000</b> , 31, 29-38	32
1699	Molecular detection of <i>Gluconacetobacter sacchari</i> associated with the pink sugarcane mealybug <i>Saccharicoccus sacchari</i> (Cockerell) and the sugarcane leaf sheath microenvironment by FISH and PCR. <b>2000</b> , 31, 61-71	20



1698	Investigation of 0.2 $\mu\text{m}$ filterable bacteria from the Western Mediterranean Sea using a molecular approach: dominance of potential starvation forms. <b>2000</b> , 31, 153-161	27
1697	Bacterial diversity and community composition in the chemocline of the meromictic alpine Lake Cadagno as revealed by 16S rDNA analysis. <b>2000</b> , 31, 173-182	113
1696	Comparison of pure cultures and natural assemblages of planktonic photosynthetic sulfur bacteria by low molecular mass RNA fingerprinting. <b>2000</b> , 32, 25-34	13
1695	Influence of growth rate and starvation on fluorescent in situ hybridization of <i>Rhodospseudomonas palustris</i> . <b>2000</b> , 32, 205-213	65
1694	Spatial differences in bacterioplankton composition along the Catalan coast (NW Mediterranean) assessed by molecular fingerprinting. <b>2000</b> , 33, 51-59	151
1693	Unravelling the genetic diversity of ruminal bacteria belonging to the CFB phylum. <b>2000</b> , 33, 69-79	84
1692	Molecular phylogeny of methanogens associated with flagellated protists in the gut and with the gut epithelium of termites. <b>2000</b> , 33, 233-240	70
1691	Symbiotic spirochetes in the termite hindgut: phylogenetic identification of ectosymbiotic spirochetes of oxymonad protists. <b>2000</b> , 34, 17-26	55
1690	Detection of <i>Desulfotomaculum</i> in an Italian rice paddy soil by 16S ribosomal nucleic acid analyses. <b>2000</b> , 34, 73-80	31
1689	5S rRNA fingerprints of marine bacteria, halophilic archaea and natural prokaryotic assemblages along a salinity gradient. <b>2000</b> , 34, 113-119	34
1688	Comparison of viable cell counts and fluorescence in situ hybridization using specific rRNA-based probes for the quantification of human fecal bacteria. <b>2000</b> , 183, 125-9	165
1687	Flow cytometric detection of specific gene expression in prokaryotic cells using in situ RT-PCR. <b>2000</b> , 184, 291-6	19
1686	Rapid identification of 11 human intestinal <i>Lactobacillus</i> species by multiplex PCR assays using group- and species-specific primers derived from the 16S-23S rRNA intergenic spacer region and its flanking 23S rRNA. <b>2000</b> , 187, 167-73	214
1685	Direct profiling of the yeast dynamics in wine fermentations. <b>2000</b> , 189, 81-7	384
1684	Current and future applications of flow cytometry in aquatic microbiology. <b>2000</b> , 24, 429-48	226
1683	Ribosomal RNA-targeted nucleic acid probes for studies in microbial ecology. <b>2000</b> , 24, 555-65	227
1682	Identification and characterization of ecologically significant prokaryotes in the sediment of freshwater lakes: molecular and cultivation studies. <b>2000</b> , 24, 573-90	145
1681	Microbial interactions involving sulfur bacteria: implications for the ecology and evolution of bacterial communities. <b>2000</b> , 24, 591-9	79

1680	Towards the ecology of hyperthermophiles: biotopes, new isolation strategies and novel metabolic properties. <b>2000</b> , 24, 615-23	112
1679	Microbiology of flooded rice paddies. <b>2000</b> , 24, 625-45	353
1678	Heterogeneity in biofilms. <b>2000</b> , 24, 661-71	326
1677	Molecular analysis of ammonia oxidation and denitrification in natural environments. <b>2000</b> , 24, 673-90	205
1676	Phylogenetic identification of hypermastigotes, Pseudotrichonympha, Spirotrichonympha, Holomastigotoides, and parabasalium symbionts in the hindgut of termites. <b>2000</b> , 47, 249-59	85
1675	How quantitative is quantitative PCR with respect to cell counts?. <b>2000</b> , 23, 556-62	159
1674	A nested array of rRNA targeted probes for the detection and identification of enterococci by reverse hybridization. <b>2000</b> , 23, 563-72	64
1673	Who is out there? Microbial aspects of biodiversity. <b>2000</b> , 23, 1-8	62
1672	16S rRNA-targeted oligonucleotide probes for the in situ detection of members of the phylum Cytophaga-Flavobacterium-Bacteroides. <b>2000</b> , 23, 107-14	95
1671	Environmentally relevant microorganisms. <b>2000</b> , 89, 1-11	63
1670	Diversity of soil fungi studied by PCR-RFLP of ITS. <b>2000</b> , 104, 1027-1032	97
1669	Microbiology: intimate strangers. <b>2000</b> , 10, R272-5	2
1668	Microbial genomes--the untapped resource. <b>2000</b> , 18, 14-6	52
1667	Problems associated with the direct viable count procedure applied to gram-positive bacteria. <b>2000</b> , 55, 281-4	18
1666	Cluster analysis, richness and biodiversity indexes derived from denaturing gradient gel electrophoresis fingerprints of bacterial communities demonstrate that traditional maize fermentations are driven by the transformation process. <b>2000</b> , 60, 91-7	65
1665	Fluorescence staining and flow cytometry for monitoring microbial cells. <b>2000</b> , 243, 191-210	185
1664	Density gradient separation of active and non-active cells from natural environments. <b>2000</b> , 77, 173-7	11
1663	Molecular ecology of hydrothermal vent microbial communities. <b>2000</b> , 77, 117-33	89

1662	Digitization of DGGE (denaturing gradient gel electrophoresis) profile and cluster analysis of microbial communities. <b>2000</b> , 22, 399-405		59
1661	Analysis of Bacterial Community Structure using 16S rDNA Analysis. <b>2000</b> , 6, 129-131		6
1660	Direct enumeration of Escherichia coli and enteric bacteria in water, beverages and sprouts by 16S rRNA in situ hybridization. <b>2000</b> , 17, 305-313		14
1659	Terminal restriction fragment length polymorphism monitoring of genes amplified directly from bacterial communities in soils and sediments. <b>2000</b> , 16, 261-9		13
1658	Characterization of abundance and diversity of lactic acid bacteria in the hindgut of wood- and soil-feeding termites by molecular and culture-dependent techniques. <i>Archives of Microbiology</i> , <b>2000</b> , 173, 126-37	3	89
1657	Successional changes in the genetic diversity of a marine bacterial assemblage during confinement. <i>Archives of Microbiology</i> , <b>2000</b> , 173, 138-45	3	77
1656	Bias Caused by Using Different Isolation Media for Assessing the Genetic Diversity of a Natural Microbial Population. <b>2000</b> , 40, 169-176		62
1655	Microdiversity of Culturable Diazotrophs from the Rhizoplanes of the Salt Marsh Grasses <i>Spartina alterniflora</i> and <i>Juncus roemerianus</i> . <b>2000</b> , 39, 128-136		34
1654	Enrichment of Geobacter Species in Response to Stimulation of Fe(III) Reduction in Sandy Aquifer Sediments. <b>2000</b> , 39, 153-167		219
1653	Analysis of Microbial Communities in a Landfill Leachate Polluted Aquifer using a New Method for Anaerobic Physiological Profiling and 16S rDNA Based Fingerprinting. <b>2000</b> , 40, 177-188		54
1652	Evolution of Bacterial Diversity during Enrichment of PCP-Degrading Activated Soils. <b>2000</b> , 40, 345-356		45
1651	Improved Recoverability of Microbial Colonies from Marine Sponge Samples. <b>2000</b> , 40, 139-147		51
1650	Stability in Natural Bacterial Communities: II. Plant Resource Allocation Effects on Rhizosphere Diazotroph Assemblage Composition. <b>2000</b> , 39, 41-48		37
1649	Phylogenetic Analysis of Bacterial Communities Associated with Leaves of the Seagrass <i>Halophila stipulacea</i> by a Culture-Independent Small-Subunit rRNA Gene Approach. <b>2000</b> , 39, 22-31		64
1648	Comparison of the spatial homogeneity of physico-chemical parameters and bacterial 16S rRNA genes in sediment samples from a dumping site for dredging sludge. <b>2000</b> , 53, 742-7		31
1647	Reclamation of an activated-sludge microbial consortium by selective biostimulation. <b>2000</b> , 54, 719-23		5
1646	Survival of Salmonella species in river water. <b>2000</b> , 40, 409-17		41
1645	Use of 16S rDNA sequences as signature characters to identify <i>Xylella fastidiosa</i> . <b>2000</b> , 40, 29-33		28

1644	Influence of dissimilatory metal reduction on fate of organic and metal contaminants in the subsurface. <b>2000</b> , 8, 77-88	120
1643	Establishment of a multiplex PCR system to diagnose tuberculosis and other bacterial infections. <b>2000</b> , 20, 324-6	1
1642	In Situ Polymerase Chain Reaction Visualization of <i>Vibrio haliotocoli</i> Using Alginate Lyase Gene AlyVG2. <b>2000</b> , 2, 74-79	3
1641	Microbial diversity at 83 degrees C in Calcite Springs, Yellowstone National Park: another environment where the Aquificales and "Korarchaeota" coexist. <b>2000</b> , 4, 61-7	100
1640	Direct proof for the presence and expression of two 5% different 16S rRNA genes in individual cells of <i>Haloarcula marismortui</i> . <b>2000</b> , 4, 373-6	43
1639	Direct amplification of rRNA genes in diagnosis of bacterial infections. <b>2000</b> , 38, 32-9	169
1638	Variations of Bacterial Populations in Human Faeces Measured by FISH with Group-Specific 16S rRNA-Targeted Oligonucleotide Probes. <b>2000</b> , 19, 79-84	7
1637	Rapid identification of pathogens in blood. <b>2000</b> , 132, 330-1	3
1636	EVALUATION DE L'IMPACT ENVIRONNEMENTAL : Evaluation des potentialités de transfert de l'ADN des plantes transgéniques vers les bactéries du sol. <b>2000</b> , 7, 320-323	3
1635	Monitoring the development of anaerobic biofilms using fluorescent in situ hybridization and confocal laser scanning microscopy. <b>2000</b> , 41, 69-77	38
1634	Functional Somatic Syndromes. <b>2000</b> , 132, 327	
1633	Seasonal microbial community dynamics in a flowerpot-using personal composting system for disposal of household biowaste. <b>2000</b> , 46, 133-146	25
1632	Carbon cycling in Australian wetlands: the importance of methane. <b>2000</b> , 27, 37-50	1
1631	Applications of flow cytometry to clinical microbiology. <b>2000</b> , 13, 167-95	166
1630	Detection and characterization of ancient fungi entrapped in glacial ice. <b>2000</b> , 92, 286-295	60
1629	Analysis of the bacterial community in Lake Soyang using an in situ hybridization method. <b>2000</b> , 27, 845-849	
1628	Microbial communities: aggregates of individuals or co-ordinated systems. <b>2000</b> , 199-214	4
1627	Increase in bacterial community diversity in subsurface aquifers receiving livestock wastewater input. <b>2000</b> , 66, 956-65	100

1626	Spatial changes in the bacterial community structure along a vertical oxygen gradient in flooded paddy soil cores. <b>2000</b> , 66, 754-62	228
1625	Selected chitinase genes in cultured and uncultured marine bacteria in the alpha- and gamma-subclasses of the proteobacteria. <b>2000</b> , 66, 1195-201	76
1624	Detection and identification of bacterial endosymbionts in arbuscular mycorrhizal fungi belonging to the family Gigasporaceae. <b>2000</b> , 66, 4503-9	139
1623	Ecology of Prokaryotic Microbes in the Guts of Wood- and Litter-Feeding Termites. <b>2000</b> , 209-231	99
1622	Homoduplex and heteroduplex polymorphisms of the amplified ribosomal 16S-23S internal transcribed spacers describe genetic relationships in the "Bacillus cereus group". <b>2000</b> , 66, 5460-8	137
1621	Development and application of small-subunit rRNA probes for assessment of selected Thiobacillus species and members of the genus Acidiphilium. <b>2000</b> , 66, 3065-72	64
1620	Phylogeny of all recognized species of ammonia oxidizers based on comparative 16S rRNA and amoA sequence analysis: implications for molecular diversity surveys. <b>2000</b> , 66, 5368-82	872
1619	Community structure, cellular rRNA content, and activity of sulfate-reducing bacteria in marine arctic sediments. <b>2000</b> , 66, 3592-602	227
1618	Phylogenetic characterization and in situ detection of a Cytophaga-Flexibacter-Bacteroides phylogroup bacterium in Tuber borchii vittad. Ectomycorrhizal mycelium. <b>2000</b> , 66, 5035-42	72
1617	Community composition of marine bacterioplankton determined by 16S rRNA gene clone libraries and fluorescence in situ hybridization. <b>2000</b> , 66, 5116-22	354
1616	Quantification of different Eubacterium spp. in human fecal samples with species-specific 16S rRNA-targeted oligonucleotide probes. <b>2000</b> , 66, 375-82	83
1615	Applications of Flow Cytometry to Clinical Microbiology. <b>2000</b> , 13, 167-195	126
1614	In situ hybridization of Prochlorococcus and Synechococcus (marine cyanobacteria) spp. with RRNA-targeted peptide nucleic acid probes. <b>2000</b> , 66, 284-9	56
1613	Application of neural computing methods for interpreting phospholipid fatty acid profiles of natural microbial communities. <b>2000</b> , 66, 694-9	43
1612	Endosymbiotic microbiota of the bamboo pseudococcid Antonina crawii (Insecta, Homoptera). <b>2000</b> , 66, 643-50	96
1611	Rapid Methods for Analysis of Biological Materials in the Environment. <b>2000</b> ,	1
1610	A few cosmopolitan phylotypes dominate planktonic archaeal assemblages in widely different oceanic provinces. <b>2000</b> , 66, 1777-87	262
1609	Detection of Streptococcus suis by in situ hybridization, indirect immunofluorescence, and peroxidase-antiperoxidase assays in formalin-fixed, paraffin-embedded tissue sections from pigs. <b>2000</b> , 12, 224-32	20

1608	Taxonomy of Extremophiles. <b>2000</b> , 231-291	5
1607	Development of 16S rRNA-based probes for the Coriobacterium group and the Atopobium cluster and their application for enumeration of Coriobacteriaceae in human feces from volunteers of different age groups. <b>2000</b> , 66, 4523-7	256
1606	Lost in worm space: phylogeny and morphology as road maps to nematode diversity. <b>2000</b> , 2, 9-16	23
1605	Comparative 16S rRNA analysis of lake bacterioplankton reveals globally distributed phylogenetic clusters including an abundant group of actinobacteria. <b>2000</b> , 66, 5053-65	499
1604	Concepts and Controversies in Tidal Marsh Ecology. <b>2000</b> ,	51
1603	Molecular characterization of bacterial populations in petroleum-contaminated groundwater discharged from underground crude oil storage cavities. <b>2000</b> , 66, 4803-9	152
1602	Effect of dissemination of 2,4-dichlorophenoxyacetic acid (2,4-D) degradation plasmids on 2,4-D degradation and on bacterial community structure in two different soil horizons. <b>2000</b> , 66, 3297-304	141
1601	Quantitative use of fluorescent in situ hybridization to examine relationships between mycolic acid-containing actinomycetes and foaming in activated sludge plants. <b>2000</b> , 66, 1158-66	129
1600	Simultaneous direct counting of total and specific microbial cells in seawater, using a deep-sea microbe as target. <b>2000</b> , 66, 2211-5	35
1599	Response of a soil bacterial community to grassland succession as monitored by 16S rRNA levels of the predominant ribotypes. <b>2000</b> , 66, 3998-4003	87
1598	Orenia salinaria sp. nov., a fermentative bacterium isolated from anaerobic sediments of Mediterranean salterns. <b>2000</b> , 50 Pt 2, 721-729	35
1597	Phylogenetic analysis of bacterial communities in mesophilic and thermophilic bioreactors treating pharmaceutical wastewater. <b>2000</b> , 66, 3951-9	191
1596	Rhizosphere competitiveness of trichloroethylene-degrading, poplar-colonizing recombinant bacteria. <b>2000</b> , 66, 4673-8	61
1595	Bacterial community structure and physiological state within an industrial phenol bioremediation system. <b>2000</b> , 66, 2400-7	153
1594	Persistence of selected Spartina alterniflora rhizoplane diazotrophs exposed to natural and manipulated environmental variability. <b>2000</b> , 66, 4625-33	47
1593	Identification of 16S ribosomal DNA-defined bacterial populations at a shallow submarine hydrothermal vent near Milos Island (Greece). <b>2000</b> , 66, 3102-9	83
1592	Culturability and In situ abundance of pelagic bacteria from the North Sea. <b>2000</b> , 66, 3044-51	484
1591	Molecular and ecological evidence for species specificity and coevolution in a group of marine algal-bacterial symbioses. <b>2000</b> , 66, 3024-30	83

1590	Bacterial activity in the rhizosphere analyzed at the single-cell level by monitoring ribosome contents and synthesis rates. <b>2000</b> , 66, 801-9	147
1589	Occurrence of novel verrucomicrobial species, endosymbiotic and associated with parthenogenesis in <i>Xiphinema americanum</i> -group species (Nematoda, Longidoridae). <b>2000</b> , 50 Pt 6, 2197-2205	108
1588	Three isolates of novel polyphosphate-accumulating gram-positive cocci, obtained from activated sludge, belong to a new genus, <i>Tetrasphaera</i> gen. nov., and description of two new species, <i>Tetrasphaera japonica</i> sp. nov. and <i>Tetrasphaera australiensis</i> sp. nov. <b>2000</b> , 50 Pt 2, 593-603	114
1587	Specific in situ hybridization of <i>Haemobartonella felis</i> with a DNA probe and tyramide signal amplification. <b>2000</b> , 37, 47-53	15
1586	Succession of pelagic marine bacteria during enrichment: a close look at cultivation-induced shifts. <b>2000</b> , 66, 4634-40	190
1585	Whole-cell versus total RNA extraction for analysis of microbial community structure with 16S rRNA-targeted oligonucleotide probes in salt marsh sediments. <b>2000</b> , 66, 3037-43	39
1584	Bacterial activity in South Pole snow. <b>2000</b> , 66, 4514-7	266
1583	Quantitative analysis of small-subunit rRNA genes in mixed microbial populations via 5'-nuclease assays. <b>2000</b> , 66, 4605-14	860
1582	Denaturing gradient gel electrophoresis analysis of 16S ribosomal DNA amplicons to monitor changes in fecal bacterial populations of weaning pigs after introduction of <i>Lactobacillus reuteri</i> strain MM53. <b>2000</b> , 66, 4705-14	154
1581	Bacterial primary colonization and early succession on surfaces in marine waters as determined by amplified rRNA gene restriction analysis and sequence analysis of 16S rRNA genes. <b>2000</b> , 66, 467-75	336
1580	Prokaryotic diversity in <i>Zostera noltii</i> -colonized marine sediments. <b>2000</b> , 66, 1715-9	80
1579	Archaeal population dynamics during sequential reduction processes in rice field soil. <b>2000</b> , 66, 2732-42	243
1578	Unlabeled helper oligonucleotides increase the in situ accessibility to 16S rRNA of fluorescently labeled oligonucleotide probes. <b>2000</b> , 66, 3603-7	237
1577	Terminal restriction fragment length polymorphism analysis program, a web-based research tool for microbial community analysis. <b>2000</b> , 66, 3616-20	248
1576	Microbial community dynamics during production of the Mexican fermented maize dough pozol. <b>2000</b> , 66, 3664-73	206
1575	Application of sequence-specific labeled 16S rRNA gene oligonucleotide probes for genetic profiling of cyanobacterial abundance and diversity by array hybridization. <b>2000</b> , 66, 4004-11	93
1574	Identification of bacteria from a non-healing diabetic foot wound by 16 S rDNA sequencing. <b>2000</b> , 14, 163-9	13
1573	Identification of nonpoint sources of fecal pollution in coastal waters by using host-specific 16S ribosomal DNA genetic markers from fecal anaerobes. <b>2000</b> , 66, 1587-94	381

1572	Cloning the soil metagenome: a strategy for accessing the genetic and functional diversity of uncultured microorganisms. <b>2000</b> , 66, 2541-7	935
1571	PCR primers that amplify fungal rRNA genes from environmental samples. <b>2000</b> , 66, 4356-60	459
1570	The molecularly-uncharacterized component of nonliving organic matter in natural environments. <b>2000</b> , 31, 945-958	532
1569	Rapid identification of 11 human intestinal <i>Lactobacillus</i> species by multiplex PCR assays using group- and species-specific primers derived from the 16S/23S rRNA intergenic spacer region and its flanking 23S rRNA. <b>2000</b> , 187, 167-173	179
1568	Species-identification dots: a potent tool for developing genome microbiology. <b>2000</b> , 261, 243-50	28
1567	Fluorescence in situ hybridization (FISH) for direct visualization of microorganisms. <b>2000</b> , 41, 85-112	535
1566	Nucleic acid-based fluorescent probes in microbial ecology: application of flow cytometry. <b>2000</b> , 42, 75-9	30
1565	DNA extraction from coral reef sediment bacteria for the polymerase chain reaction. <b>2000</b> , 43, 73-80	17
1564	Use of substrate responsive-direct viable counts to visualize naphthalene degrading bacteria in a coal tar-contaminated groundwater microbial community. <b>2000</b> , 43, 81-90	10
1563	Analysis of the dynamics of fungal communities in soil via fungal-specific PCR of soil DNA followed by denaturing gradient gel electrophoresis. <b>2000</b> , 43, 133-51	158
1562	Widefield deconvolution epifluorescence microscopy combined with fluorescence in situ hybridization reveals the spatial arrangement of bacteria in sponge tissue. <b>2000</b> , 40, 125-34	69
1561	Anaerobic decomposition of halogenated aromatic compounds. <i>Environmental Pollution</i> , <b>2000</b> , 107, 199-207	71
1560	The biogeochemistry, stable isotope geochemistry, and microbial community structure of a temperate intertidal mudflat: an integrated study. <b>2000</b> , 20, 1749-1769	90
1559	Microbiological safety of drinking water. <b>2000</b> , 54, 81-127	378
1558	Monitoring complex bacterial communities using culture-independent molecular techniques: application to soil environment. <b>2000</b> , 151, 167-77	237
1557	Oligonucleotide probe for the visualization of <i>Escherichia coli</i> / <i>Escherichia fergusonii</i> cells by in situ hybridization: specificity and potential applications. <b>2000</b> , 151, 521-33	61
1556	Exploring the frontier between life and death in <i>Escherichia coli</i> : evaluation of different viability markers in live and heat- or UV-killed cells. <b>2000</b> , 151, 755-68	69
1555	Bacterial dormancy and culturability: the role of autocrine growth factors. <b>2000</b> , 3, 238-43	106



1554	Analyzing the molecular foundations of commensalism in the mouse intestine. <b>2000</b> , 3, 79-85	65
1553	Mechanisms of dinitrogen gas formation in anaerobic lagoons. <b>2000</b> , 4, 133-139	11
1552	Methods for assessing the composition and diversity of soil microbial communities. <b>2000</b> , 15, 25-36	318
1551	Geochemical and biological aspects of sulfide mineral dissolution: lessons from Iron Mountain, California. <b>2000</b> , 169, 383-397	105
1550	In situ probing reveals <i>Aquabacterium commune</i> as a widespread and highly abundant bacterial species in drinking water biofilms. <b>2000</b> , 34, 575-581	53
1549	Community analysis of bacterial biofilms in a simulated recirculating cooling-water system by fluorescent in situ hybridization with rRNA-targeted oligonucleotide probes. <b>2000</b> , 34, 2439-2446	29
1548	The microflora of rainbow trout intestine: a comparison of traditional and molecular identification. <b>2000</b> , 182, 1-15	231
1547	Isolation and characterization of a <i>Pseudomonas</i> sp. strain PH1 utilizing meta-aminophenol. <b>2000</b> , 46, 211-217	23
1546	Culture-dependent and culture-independent characterization of microbial assemblages associated with high-temperature petroleum reservoirs. <b>2000</b> , 66, 700-11	391
1545	Applied Microbial Systematics. <b>2000</b> ,	7
1544	Journey to Diverse Microbial Worlds. <b>2000</b> ,	13
1543	Identification of and spatio-temporal differences between microbial assemblages from two neighboring sulfurous lakes: comparison by microscopy and denaturing gradient gel electrophoresis. <b>2000</b> , 66, 499-508	350
1542	Identification of Bacteria in Mushroom Compost Using Ribosomal RNA Sequence. <b>2000</b> , 8, 247-253	15
1541	Screening of environmental DNA libraries for the presence of genes conferring lipolytic activity on <i>Escherichia coli</i> . <b>2000</b> , 66, 3113-6	245
1540	Bacteria in the leaf ecosystem with emphasis on <i>Pseudomonas syringae</i> -a pathogen, ice nucleus, and epiphyte. <b>2000</b> , 64, 624-53	627
1539	Monitoring by laser-flow-cytometry of the polycyclic aromatic hydrocarbon-degrading <i>Sphingomonas</i> sp. strain 107 during biotreatment of a contaminated soil. <b>2000</b> , 46, 433-40	5
1538	Effect of Chemical Oxidation on Subsurface Microbiology and Trichloroethene (TCE) Biodegradation. <b>2000</b> , 4, 219-236	15
1537	A Century of Plant Pathology: A Retrospective View on Understanding Host-Parasite Interactions. <b>2000</b> , 38, 31-48	32

1536	A flow cytometry method for rapid detection and enumeration of total bacteria in milk. <b>2000</b> , 66, 1228-32	198
1535	Changes in Subsurface Catabolic Gene Frequencies during Natural Attenuation of Petroleum Hydrocarbons. <b>2000</b> , 34, 1991-1999	37
1534	Natural assemblages of marine proteobacteria and members of the Cytophaga-Flavobacter cluster consuming low- and high-molecular-weight dissolved organic matter. <b>2000</b> , 66, 1692-7	784
1533	Extremely halophilic bacteria in crystallizer ponds from solar salterns. <b>2000</b> , 66, 3052-7	251
1532	Microbial Community Changes Associated with a Shift from Reductive Dechlorination of PCE to Reductive Dechlorination of cis-DCE and VC. <b>2000</b> , 34, 1056-1061	79
1531	Defensive extrusive ectosymbionts of Euplotidium (Ciliophora) that contain microtubule-like structures are bacteria related to Verrucomicrobia. <b>2000</b> , 97, 1813-7	116
1530	Identification of polyphosphate-accumulating organisms and design of 16S rRNA-directed probes for their detection and quantitation. <b>2000</b> , 66, 1175-82	626
1529	Search and discovery strategies for biotechnology: the paradigm shift. <b>2000</b> , 64, 573-606	293
1528	Complex Endosymbiotic Microbiota of the Citrus Psyllid <i>Diaphorina citri</i> (Homoptera: Psylloidea). <b>2000</b> , 17, 983-989	82
1527	Detection and Characterization of Ancient Fungi Entrapped in Glacial Ice. <b>2000</b> , 92, 286	50
1526	Microbial biofilms: from ecology to molecular genetics. <b>2000</b> , 64, 847-67	1983
1525	Patina. <b>2000</b> , 105-119	9
1524	The Biotechnology Revolution: The Science and Applications. <b>2000</b> , 77-124	3
1523	DNA/RNA analysis of phytoplankton by flow cytometry. <b>2001</b> , Chapter 11, Unit 11.12	23
1522	Leafy gall formation by <i>Rhodococcus fascians</i> . <b>2001</b> , 39, 27-52	107
1521	Denaturing gradient gel electrophoresis in marine microbial ecology. <b>2001</b> , 30, 425-468	179
1520	Cave biosignature suites: microbes, minerals, and Mars. <b>2001</b> , 1, 25-55	137
1519	Biodiversity of acidophilic prokaryotes. <b>2001</b> , 49, 37-84	184

1518	Bacterial populations associated with rice seed in the tropical environment. <b>2001</b> , 91, 282-92	128
1517	Microbial Diversity. <b>2001</b> , 280-291	4
1516	Geomicrobiology of Caves: A Review. <b>2001</b> , 18, 199-222	234
1515	<i>Azospirillum doebereineriae</i> sp. nov., a nitrogen-fixing bacterium associated with the C4-grass <i>Miscanthus</i> . <b>2001</b> , 51, 17-26	164
1514	Molecular phylogeny: Applications and implications for marine microbiology. <b>2001</b> , 30, 375-394	10
1513	Bacterial diversity in human subgingival plaque. <b>2001</b> , 183, 3770-83	1516
1512	Community structure and activity dynamics of nitrifying bacteria in a phosphate-removing biofilm. <b>2001</b> , 67, 1351-62	264
1511	Microbial populations associated with treatment of an industrial dye effluent in an anaerobic baffled reactor. <b>2001</b> , 67, 3226-35	96
1510	Mediterranean Ecosystems. <b>2001</b> ,	2
1509	Bioremediation. Anaerobes to the rescue. <b>2001</b> , 293, 1444-6	150
1508	Managing Organic Matter in Tropical Soils: Scope and Limitations. <b>2001</b> ,	
1507	Fungal Associations. <b>2001</b> ,	2
1506	Bifidobacterial diversity in human feces detected by genus-specific PCR and denaturing gradient gel electrophoresis. <b>2001</b> , 67, 504-13	363
1505	Simultaneous recovery of RNA and DNA from soils and sediments. <b>2001</b> , 67, 4495-503	293
1504	Comparative analysis of methane-oxidizing archaea and sulfate-reducing bacteria in anoxic marine sediments. <b>2001</b> , 67, 1922-34	521
1503	Environmental Diversity of Bacteria and Archaea. <b>2001</b> , 50, 470-478	97
1502	Design and evaluation of 16S rRNA-targeted oligonucleotide probes for fluorescence in situ hybridization. <b>2002</b> , 179, 29-42	90
1501	Determining the physiological status of individual bacterial cells. <b>2001</b> , 175-206	8

1500	Multiplex polymerase chain reaction assay for simultaneous detection of <i>Staphylococcus aureus</i> and streptococcal causes of bovine mastitis. <b>2001</b> , 84, 1140-8	66
1499	Molecular approach to the characterisation of fungal communities: methods for DNA extraction, PCR amplification and DGGE analysis of painted art objects. <b>2001</b> , 195, 169-173	49
1498	$\beta$ -Proteobacterial diversity from a deep-sea hydrothermal vent on the Mid-Atlantic Ridge. <b>2001</b> , 205, 329-335	18
1497	A possible role for L24 of <i>Bacillus subtilis</i> in nucleoid organization and segregation. <b>2001</b> , 83, 269-75	8
1496	Structural diversity of microorganisms in chemically perturbed soil assessed by molecular and cytochemical approaches. <b>2001</b> , 43, 197-212	130
1495	Method for enumeration of 5-cyano-2,3-ditoyl tetrazolium chloride (CTC)-active cells and cell-specific CTC activity of benthic bacteria in riverine, estuarine and coastal sediments. <b>2001</b> , 43, 213-22	39
1494	Automated fluorescent in situ hybridization for the specific detection and quantification of oral streptococci in dental plaque. <b>2001</b> , 44, 39-47	46
1493	Terminal-restriction fragment length polymorphism (T-RFLP) screening of a marine archaeal clone library to determine the different phylotypes. <b>2001</b> , 44, 159-72	70
1492	A strategy for optimizing quality and quantity of DNA extracted from soil. <b>2001</b> , 45, 7-20	221
1491	Rapid detection, identification, and enumeration of <i>Escherichia coli</i> by fluorescence in situ hybridization using an array scanner. <b>2001</b> , 45, 31-9	46
1490	An advanced molecular strategy to identify bacterial communities on art objects. <b>2001</b> , 45, 77-87	120
1489	Comparison of microbial and meiofaunal community analyses for determining impact of heavy metal contamination. <b>2001</b> , 45, 171-85	92
1488	Combination of ATP-bioluminescence and PNA probes allows rapid total counts and identification of specific microorganisms in mixed populations. <b>2001</b> , 46, 69-75	14
1487	Factors influencing the cultivability of lake water bacteria. <b>2001</b> , 47, 41-50	55
1486	Effects of humic substances on fluorometric DNA quantification and DNA hybridization. <b>2001</b> , 47, 73-82	43
1485	Identification of indicator microorganisms using a standardized PNA FISH method. <b>2001</b> , 47, 281-92	104
1484	<i>rrn</i> operons in <i>Haemophilus parainfluenzae</i> and mosaicism of conserved and species-specific sequences in the 16S-23S rDNA long spacer. <b>2001</b> , 152, 461-8	3
1483	Direct detection of thermotolerant campylobacters in chicken products by PCR and in situ hybridization. <b>2001</b> , 152, 577-82	41

1482	Estimation of the abundance of the cadmium resistance gene <i>cadA</i> in microbial communities in polluted estuary water. <b>2001</b> , 152, 671-8	28
1481	Using inactivated microbial biomass as fertilizer: the fate of antibiotic resistance genes in the environment. <b>2001</b> , 152, 823-33	19
1480	Microbial seascapes revisited. <b>2001</b> , 4, 290-5	26
1479	Microbial population shifts in experimental rice systems. <b>2001</b> , 17, 151-163	38
1478	Extraction and purification of microbial DNA from soil and sediment samples. <b>2001</b> , 18, 47-60	165
1477	Evolutionary relationship of Rickettsiae and mitochondria. <b>2001</b> , 501, 11-8	60
1476	Microbial response to surface microtopography: the role of metabolism in localized mineral dissolution. <b>2001</b> , 180, 19-32	110
1475	Influence of long-term heavy-metal contamination on microbial communities in soil. <b>2001</b> , 33, 287-295	118
1474	Preferential flow paths: biological hot spots in soils. <b>2001</b> , 33, 729-738	287
1473	Ecophysiology of soil bacteria in the vicinity of Henryk Arctowski Station, King George Island, Antarctica. <b>2001</b> , 33, 819-829	14
1472	Assessing soil biological characteristics: a comparison of bulk soil community DNA-, PLFA-, and Biolog® analyses. <b>2001</b> , 33, 1029-1036	117
1471	In situ analysis of <i>Nitrosomonas</i> spp. in wastewater treatment wetland biofilms. <b>2001</b> , 35, 2731-9	24
1470	Aerobic biological treatment of a pharmaceutical wastewater: effect of temperature on COD removal and bacterial community development. <b>2001</b> , 35, 4417-25	92
1469	Microbial diversity in smoked salmon examined by a culture-independent molecular approach—a preliminary study. <b>2001</b> , 70, 179-87	23
1468	Seasonal occurrence at a Scottish PSP monitoring site of purportedly toxic bacteria originally isolated from the toxic dinoflagellate genus <i>Alexandrium</i> . <b>2001</b> , 36, 243-256	16
1467	Molecular ecology of tetracycline resistance: development and validation of primers for detection of tetracycline resistance genes encoding ribosomal protection proteins. <b>2001</b> , 67, 22-32	485
1466	Advances in Actinorhizal Symbiosis: Host Plant- Frankia Interactions, Biology, and Applications in Arid Land Reclamation. A Review. <b>2001</b> , 15, 285-327	90
1465	Quantifying functional gene populations: comparing gene abundance and corresponding enzymatic activity using denitrification and nitrogen fixation in pulp and paper mill effluent treatment systems. <b>2001</b> , 47, 925-34	11

1464	Effect of fungicide thiram on microbial communities of rice seed surface estimated by culture-dependent and culture-independent (PCR-RFLP) methods. <b>2001</b> , 47, 303-314	4
1463	In situ characterization of Nitrospira-like nitrite-oxidizing bacteria active in wastewater treatment plants. <b>2001</b> , 67, 5273-84	615
1462	Photosynthetic and phylogenetic primers for detection of anoxygenic phototrophs in natural environments. <b>2001</b> , 67, 2922-6	127
1461	Adequacy of in situ glass slides and direct sand extractions to assess the microbiota within sand columns used for drinking water treatment. <b>2001</b> , 47, 601-607	8
1460	Bioremediation of petroleum hydrocarbons in soil. <b>2001</b> , 72, 53-105	37
1459	Specific identification and targeted characterization of Bifidobacterium lactis from different environmental isolates by a combined multiplex-PCR approach. <b>2001</b> , 67, 2760-5	129
1458	Further biogeochemical characterization of a trichloroethene-contaminated fractured dolomite aquifer: electron source and microbial communities involved in reductive dechlorination. <b>2001</b> , 35, 4449-56	42
1457	Counting the uncountable: statistical approaches to estimating microbial diversity. <b>2001</b> , 67, 4399-406	914
1456	Microbial populations associated with the reduction and enhanced mobilization of arsenic in mine tailings. <b>2001</b> , 35, 3676-82	149
1455	Study of genetic diversity of eukaryotic picoplankton in different oceanic regions by small-subunit rRNA gene cloning and sequencing. <b>2001</b> , 67, 2932-41	405
1454	Application of denaturing gradient gel electrophoresis (DGGE) to study the diversity of marine picoeukaryotic assemblages and comparison of DGGE with other molecular techniques. <b>2001</b> , 67, 2942-51	434
1453	Fluorescence in situ hybridization (FISH) with rRNA-targeted oligonucleotide probes. <b>2001</b> , 207-226	312
1452	Genomics technologies for environmental science. <b>2001</b> , 35, 364 A-370 A	21
1451	Lactococcus lactis subsp. lactis infection in waterfowl: first confirmation in animals. <b>2001</b> , 7, 884-6	11
1450	Confocal microscopy and microbial viability detection for food research. <b>2001</b> , 64, 2088-102	21
1449	Biological and genetic characteristics of uropathogenic Escherichia coli strains. <b>2001</b> , 43, 303-10	16
1448	Comparison of microbial communities in anaerobic granulated sludge reactors treating benzoate, methyl benzoate and terephthalate. <b>2001</b> , 79-87	
1447	Characterization of microbial community in an activated sludge process treating domestic wastewater using quinone profiles. <b>2001</b> , 43, 99-106	10

1446	In situ detection of cell surface hydrophobicity of probe-defined bacteria in activated sludge. <b>2001</b> , 43, 97-103	28
1445	Contribution of <i>Pseudomonas</i> spp. to phosphorus uptake in the anoxic zone of an anaerobic-anoxic-aerobic continuous activated sludge system. <b>2001</b> , 43, 139-146	5
1444	Monitoring of the microbial community of a sequencing batch reactor bioaugmented to improve its phosphorus removal capabilities. <b>2001</b> , 43, 1-8	20
1443	Quantification of bacterial populations in complex ecosystems using fluorescent in situ hybridization, confocal laser scanning microscopy and image analysis. <b>2001</b> , 33, S307	4
1442	Molecular ecological analysis of dietary and antibiotic-induced alterations of the mouse intestinal microbiota. <b>2001</b> , 131, 1862-70	98
1441	Novel Quantitative Method for Detection of <i>Pectinatus</i> Using rRNA Targeted Fluorescent Probes. <b>2001</b> , 59, 117-121	21
1440	Study of microbial community of brewery-treating granular sludge by denaturing gradient gel electrophoresis of 16S rRNA gene. <b>2001</b> , 43, 77-82	122
1439	Composition of human intestinal flora analysed by fluorescent in situ hybridisation using group-specific 16S rRNA-targeted oligonucleotide probes. <b>2001</b> , 33, S339	17
1438	Molecular Characterisation of Microbial Communities Based on 16S rRNA Sequence Diversity. <b>2001</b> , 267-298	4
1437	Bacterial origin for the isoprenoid biosynthesis enzyme HMG-CoA reductase of the archaeal orders Thermoplasmatales and Archaeoglobales. <b>2001</b> , 18, 1378-88	39
1436	Regulation of bacterial biomass and community structure by metazoan and protozoan predation. <b>2001</b> , 46, 121-134	111
1435	The plant pathogen <i>Rhodococcus fascians</i> colonizes the exterior and interior of the aerial parts of plants. <b>2001</b> , 14, 599-608	60
1434	Bacterial Community Composition and Activity in Urban Rivers in Thailand and Malaysia.. <b>2001</b> , 47, 353-361	31
1433	Proteobacteria. <b>2001</b> ,	1
1432	Serodiagnosis for Bacterial Infections. <b>2001</b> , 76-103	
1431	Dynamics of Methanotrophs during in situ Bioremediation. <b>2001</b> , 16, 37-42	1
1430	Nanobacteria, Ultramicrobacteria and Starvation Forms: A Search for the Smallest Metabolizing Bacterium. <b>2001</b> , 16, 67-77	52
1429	Analysis of microbial structure and function of nitrifying biofilms. <b>2001</b> , 337, 213-24	6

1428	Phospholipid fatty acid composition of microbiota in the percolating water from a rice paddy microcosm. <b>2001</b> , 47, 533-545		8
1427	Colonization of aerobic biofilms by sulfate-reducing bacteria. <b>2001</b> , 17, 275-288		4
1426	Seasonal occurrence at a Scottish PSP monitoring site of purportedly toxic bacteria originally isolated from the toxic dinoflagellate genus <i>Alexandrium</i> . <b>2001</b> , 36, 243-256		18
1425	CHARACTERIZATION OF FILAMENTOUS BULKING IN ACTIVATED SLUDGE USING OLIGONUCLEOTIDE HYBRIDIZATION PROBES. <b>2001</b> , 2001, 708-717		
1424	Use of isotopic and molecular techniques to link toluene degradation in denitrifying aquifer microcosms to specific microbial populations. <i>Archives of Microbiology</i> , <b>2001</b> , 175, 270-81	3	50
1423	Rubrobacter-related bacteria associated with rosy discolouration of masonry and lime wall paintings. <i>Archives of Microbiology</i> , <b>2001</b> , 176, 347-54	3	61
1422	Phylogeny and Abundance of Novel Denitrifying Bacteria Isolated from the Water Column of the Central Baltic Sea. <b>2001</b> , 42, 295-305		44
1421	Changes in the Epilimnetic Bacterial Community Composition, Production, and Protist-Induced Mortality along the Longitudinal Axis of a Highly Eutrophic Reservoir. <b>2001</b> , 42, 359-371		46
1420	Interpreting 16S rDNA T-RFLP Data: Application of Self-Organizing Maps and Principal Component Analysis to Describe Community Dynamics and Convergence. <b>2001</b> , 42, 495-505		112
1419	Long-Term Stability of Mercury-Reducing Microbial Biofilm Communities Analyzed by 16S-23S rDNA Interspacer Region Polymorphism. <b>2001</b> , 42, 624-634		21
1418	Sulfate Reduction at a Lignite Seam: Microbial Abundance and Activity. <b>2001</b> , 42, 238-247		35
1417	Design and Performance of rRNA Targeted Oligonucleotide Probes for in Situ Detection and Phylogenetic Identification of Microorganisms Inhabiting Acid Mine Drainage Environments. <b>2001</b> , 41, 149-161		94
1416	In Situ Assessment on the Physiological State of Purple and Green Sulfur Bacteria through the Analyses of Pigment and 5S rRNA Content. <b>2001</b> , 42, 427-437		10
1415	Archaeal Biodiversity in Crystallizer Ponds from a Solar Saltern: Culture versus PCR. <b>2001</b> , 41, 12-19		105
1414	Role of Predatory Bacteria in the Termination of a Cyanobacterial Bloom. <b>2001</b> , 41, 97-105		118
1413	Population Dynamics of Two Toluene Degrading Bacterial Species in a Contaminated Stream. <b>2001</b> , 41, 124-131		11
1412	The Structure of Microbial Communities in Soil and the Lasting Impact of Cultivation. <b>2001</b> , 42, 11-21		275
1411	Species Composition of Cultivated and Noncultivated Bacteria from Short Filaments in an Icelandic Hot Spring at 88 degrees C. <b>2001</b> , 42, 117-125		46



1410	Physiological Diversity of Rhizoplane Diazotrophs of the Saltmeadow Cordgrass, <i>Spartina patens</i> : Implications for Host Specific Ecotypes. <b>2001</b> , 42, 466-473	27
1409	Characterisation of the microbial 16S rDNA diversity of an aerobic phosphorus-removal ecosystem and monitoring of its transition to nitrate respiration. <b>2001</b> , 55, 500-9	98
1408	The impact of fermentative organisms on carbon flow in methanogenic systems under constant low-substrate conditions. <b>2001</b> , 56, 531-8	27
1407	Functional patterns and temperature response of cellulose-fermenting microbial cultures containing different methanogenic communities. <b>2001</b> , 56, 212-9	20
1406	Analysis of the microbial communities on corroded concrete sewer pipes--a case study. <b>2001</b> , 57, 776-85	94
1405	Pesticide effects on bacterial diversity in agricultural soils ̄a review. <b>2001</b> , 33, 443-453	239
1404	Cyanobacterial diversity in extreme environments in Baja California, Mexico: a polyphasic study. <b>2001</b> , 4, 227-36	21
1403	Natural attenuation/phytoremediation in the vadose zone of a former industrial sludge basin. <b>2001</b> , 8, 243-9	24
1402	Systematics and evolution of ruminal species of the genus <i>Prevotella</i> . <b>2001</b> , 46, 40-4	14
1401	Application of flow cytometry for ecological monitoring of the rumen microbial ecosystem. <b>2001</b> , 46, 53-5	6
1400	Ribosomal RNA genes from <i>Prevotella bryantii</i> : organization and heterogeneity. <b>2001</b> , 46, 67-70	1
1399	Molecular monitoring of ruminal prevotellas. <b>2001</b> , 46, 87-90	3
1398	Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: changes in the genetic diversity of bacterial populations. <b>2001</b> , 34, 243-253	50
1397	Molecular characterization of sulfate-reducing bacteria in anaerobic hydrocarbon-degrading consortia and pure cultures using the dissimilatory sulfite reductase ( <i>dsrAB</i> ) genes. <b>2001</b> , 35, 145-150	44
1396	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <b>2001</b> , 37, 45-54	48
1395	A microwave-based method for nucleic acid isolation from environmental samples. <b>2001</b> , 33, 17-20	58
1394	Use of molecular techniques to study microbial diversity in the skin: chronic wounds reevaluated. <b>2001</b> , 9, 332-40	88
1393	The effects of copper on the microbial community of a coral reef sponge. <b>2001</b> , 3, 19-31	81

1392	In situ identification of polyphosphate- and polyhydroxyalkanoate-accumulating traits for microbial populations in a biological phosphorus removal process. <b>2001</b> , 3, 110-22	167
1391	Molecular detection of marine bacterial populations on beaches contaminated by the Nakhodka tanker oil-spill accident. <b>2001</b> , 3, 246-55	131
1390	Linking the composition of bacterioplankton to rapid turnover of dissolved dimethylsulphoniopropionate in an algal bloom in the North Sea. <b>2001</b> , 3, 304-11	185
1389	Phylogenetic analysis of ribosomal RNA operons from uncultivated coastal marine bacterioplankton. <b>2001</b> , 3, 323-31	126
1388	Functional and structural response of a cellulose-degrading methanogenic microbial community to multiple aeration stress at two different temperatures. <b>2001</b> , 3, 355-62	19
1387	Development of specific oligonucleotide probes for the identification and in situ detection of hydrocarbon-degrading <i>Alcanivorax</i> strains. <b>2001</b> , 3, 371-9	81
1386	Quantification of bacterial subgroups in soil: comparison of DNA extracted directly from soil or from cells previously released by density gradient centrifugation. <b>2001</b> , 3, 431-9	137
1385	Linking genetic identity and function in communities of uncultured bacteria. <b>2001</b> , 3, 481-92	96
1384	Molecular analysis of microbial community structure in an arsenite-oxidizing acidic thermal spring. <b>2001</b> , 3, 532-42	163
1383	Design and application of oligonucleotide probes for fluorescent in situ identification of the filamentous bacterial morphotype <i>Nostocoida limicola</i> in activated sludge. <b>2001</b> , 3, 551-60	33
1382	Optimization of an oligonucleotide microchip for microbial identification studies: a non-equilibrium dissociation approach. <b>2001</b> , 3, 619-29	125
1381	Bioaugmentation of soils by increasing microbial richness: missing links. <b>2001</b> , 3, 649-57	139
1380	Biomonitoring of pJP4-carrying <i>Pseudomonas chlororaphis</i> with Trb protein-specific antisera. <b>2001</b> , 3, 720-30	15
1379	Comparative analysis of polychlorinated biphenyl-dechlorinating communities in enrichment cultures using three different molecular screening techniques. <b>2001</b> , 3, 710-9	60
1378	Filter-based PNA in situ hybridization for rapid detection, identification and enumeration of specific micro-organisms. <b>2001</b> , 90, 180-9	56
1377	Oligonucleotide probes for specific detection of <i>Giardia lamblia</i> cysts by fluorescent in situ hybridization. <b>2001</b> , 90, 836-42	31
1376	Succession of microbial communities during a biostimulation process as evaluated by DGGE and clone library analyses. <b>2001</b> , 91, 625-35	101
1375	Extraction and purification of DNA from organic rich subsurface sediments (ODP Leg 169S). <b>2001</b> , 174, 241-247	23

1374	The identification of microorganisms by fluorescence in situ hybridisation. <b>2001</b> , 12, 231-6	283
1373	In situ analysis of biofilms on historic window glass using confocal laser scanning microscopy. <b>2001</b> , 2, 31-42	31
1372	In situ hybridisation for identification and differentiation of <i>Mycoplasma hyopneumoniae</i> , <i>Mycoplasma hyosynoviae</i> and <i>Mycoplasma hyorhinis</i> in formalin-fixed porcine tissue sections. <b>2001</b> , 109, 656-64	16
1371	A new approach to determine the genetic diversity of viable and active bacteria in aquatic ecosystems. <b>2001</b> , 43, 314-321	32
1370	Hundredfold productivity of genome analysis by introduction of microtemperature-gradient gel electrophoresis. <b>2001</b> , 22, 23-8	25
1369	Cell fingerprinting: an approach to classifying cells according to mass profiles of digests of protein extracts. <b>2001</b> , 1, 683-90	16
1368	Ammonia-oxidizing bacteria: a model for molecular microbial ecology. <b>2001</b> , 55, 485-529	948
1367	Application of molecular techniques to studies in <i>Rhizobium</i> ecology: a review. <b>2001</b> , 41, 299	36
1366	A Human Volunteer Study on the Prebiotic Effects of HP-InulinBaecal Bacteria Enumerated Using Fluorescent In Situ Hybridisation (FISH). <b>2001</b> , 7, 113-118	94
1365	Analysis of Soil Bacterial Diversity: Methods, Potentiality, and Prospects. <b>2001</b> , 70, 119-132	8
1364	Soil and rhizosphere as habitats for <i>Pseudomonas</i> inoculants: new knowledge on distribution, activity and physiological state derived from micro-scale and single-cell studies. <b>2001</b> , 232, 97-108	51
1363	Bacterial diversity of the rhizosphere of maize ( <i>Zea mays</i> ) grown in tropical soil studied by temperature gradient gel electrophoresis. <b>2001</b> , 232, 167-180	255
1362	A single band does not always represent single bacterial strains in denaturing gradient gel electrophoresis analysis. <b>2001</b> , 23, 1205-1208	146
1361	Specific detection of an oil-degrading bacterium, <i>Corynebacterium</i> sp. IC10, in sand microcosms by PCR using species-specific primers based on 16S rRNA gene sequences. <b>2001</b> , 23, 1741-1748	3
1360	The role of soil microorganisms in soil organic matter conservation in the tropics. <b>2001</b> , 61, 41-51	60
1359	Seasonal fluctuations in the population of denitrifying and N <sub>2</sub> -fixing bacteria in an acid soil of a Norway spruce forest. <b>2001</b> , 230, 145-160	41
1358	Molecular approach to the characterisation of fungal communities: methods for DNA extraction, PCR amplification and DGGE analysis of painted art objects. <b>2001</b> , 195, 169-73	55
1357	Group-specific 16S rRNA targeted probes for the detection of type I and type II methanotrophs by fluorescence in situ hybridisation. <b>2001</b> , 198, 91-7	113

1356	Epsilon-proteobacterial diversity from a deep-sea hydrothermal vent on the Mid-Atlantic Ridge. <b>2001</b> , 205, 329-35	106
1355	The species concept for prokaryotes. <b>2001</b> , 25, 39-67	706
1354	Single strand conformation polymorphism monitoring of 16S rDNA Archaea during start-up of an anaerobic digester. <b>2001</b> , 34, 213-220	58
1353	Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: changes in the genetic diversity of bacterial populations. <b>2001</b> , 34, 243-253	123
1352	Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: changes in abundances, activity and composition. <b>2001</b> , 34, 255-266	59
1351	Impact of cultivation on characterisation of species composition of soil bacterial communities. <b>2001</b> , 35, 37-48	73
1350	Molecular characterization of sulfate-reducing bacteria in anaerobic hydrocarbon-degrading consortia and pure cultures using the dissimilatory sulfite reductase (dsrAB) genes. <b>2001</b> , 35, 145-150	26
1349	The microbial diversity in picoplankton enrichment cultures: a molecular screening of marine isolates. <b>2001</b> , 35, 249-258	36
1348	Multitude and temporal variability of ecological niches as indicated by the diversity of cultivated bacterioplankton. <b>2001</b> , 36, 153-164	49
1347	Structure and diversity of Gram-negative sulfate-reducing bacteria on rice roots. <b>2001</b> , 36, 175-183	56
1346	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. <b>2001</b> , 37, 45-54	5
1345	Ferrous iron oxidation by denitrifying bacteria in profundal sediments of a deep lake (Lake Constance). <b>2001</b> , 37, 127-134	76
1344	Ribosomal RNA content in microcolony forming soil bacteria measured by quantitative 16S rRNA hybridization and image analysis. <b>2001</b> , 37, 231-237	19
1343	Methanogenic populations involved in the degradation of rice straw in anoxic paddy soil. <b>2001</b> , 38, 11-20	55
1342	Temporal variation of the microbial community associated with the mediterranean sponge <i>Aplysina aerophoba</i> . <b>2001</b> , 38, 105-115	182
1341	Recent advances in methane fermentation technology. <b>2001</b> , 12, 277-82	68
1340	Adaptation of bacteria to the intestinal niche: probiotics and gut disorder. <b>2001</b> , 7, 136-45	117
1339	Thermophilic aerobic treatment of a synthetic wastewater in a membrane-coupled bioreactor. <b>2001</b> , 26, 203-9	38

1338	Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments. <b>2001</b> , 46, 213-223	62
1337	The species concept for prokaryotes. <b>2001</b> , 25, 39-67	614
1336	Biogeochemical controls on metal behaviour in freshwater environments. <b>2001</b> , 54, 261-320	202
1335	Design and application of new 16S rRNA-targeted oligonucleotide probes for the Azospirillum-Skermanella-Rhodocista-cluster. <b>2001</b> , 24, 83-97	48
1334	DNA isolation protocols affect the detection limit of PCR approaches of bacteria in samples from the human gastrointestinal tract. <b>2001</b> , 24, 405-10	96
1333	The potential of a polyphasic PCR-dGGE approach in evaluating microbial diversity of natural whey cultures for water-buffalo Mozzarella cheese production: bias of culture-dependent and culture-independent analyses. <b>2001</b> , 24, 610-7	160
1332	Denaturing gradient gel electrophoresis analyses of microbial community from field-scale composter. <b>2001</b> , 91, 159-165	81
1331	Utilization of tmRNA sequences for bacterial identification. <b>2001</b> , 1, 20	42
1330	Oligofructose and long-chain inulin: influence on the gut microbial ecology of rats associated with a human faecal flora. <b>2001</b> , 86, 291-300	259
1329	Investigation of candidate division TM7, a recently recognized major lineage of the domain Bacteria with no known pure-culture representatives. <b>2001</b> , 67, 411-9	269
1328	Input of protein to lake water microcosms affects expression of proteolytic enzymes and the dynamics of Pseudomonas spp. <b>2001</b> , 67, 4955-62	9
1327	Microbial communities in the chemocline of a hypersaline deep-sea basin (Urania basin, Mediterranean Sea). <b>2001</b> , 67, 5392-402	139
1326	Portable system for microbial sample preparation and oligonucleotide microarray analysis. <b>2001</b> , 67, 922-8	104
1325	Natural communities of novel archaea and bacteria growing in cold sulfurous springs with a string-of-pearls-like morphology. <b>2001</b> , 67, 2336-44	83
1324	Growth patterns of two marine isolates: adaptations to substrate patchiness?. <b>2001</b> , 67, 4077-83	57
1323	Screening of environmental DNA libraries for the presence of genes conferring Na <sup>(+)</sup> (Li <sup>(+)</sup> )/H <sup>(+)</sup> antiporter activity on Escherichia coli: characterization of the recovered genes and the corresponding gene products. <b>2001</b> , 183, 6645-53	95
1322	Changes in rRNA levels during stress invalidates results from mRNA blotting: fluorescence in situ rRNA hybridization permits renormalization for estimation of cellular mRNA levels. <b>2001</b> , 183, 4747-51	54
1321	Detection and quantification of methyl tert-butyl ether-degrading strain PM1 by real-time TaqMan PCR. <b>2001</b> , 67, 5154-60	60

1320	Percent G+C profiling accurately reveals diet-related differences in the gastrointestinal microbial community of broiler chickens. <b>2001</b> , 67, 5656-67	122
1319	Profiling of Bacterial Species Associated with Haddock Larviculture by PCR Amplification of 16S rDNA and Denaturing Gradient Gel Electrophoresis. <b>2001</b> , 13, 355-363	43
1318	Nitrogen fixation genes in an endosymbiotic Burkholderia strain. <b>2001</b> , 67, 725-32	117
1317	Bacterial biofilms and human disease. <b>2001</b> , 84, 235-54	92
1316	Bacterial populations colonizing and degrading rice straw in anoxic paddy soil. <b>2001</b> , 67, 1318-27	142
1315	Community structure of denitrifiers, bacteria, and archaea along redox gradients in Pacific Northwest marine sediments by terminal restriction fragment length polymorphism analysis of amplified nitrite reductase (nirS) and 16S rRNA genes. <b>2001</b> , 67, 1893-901	222
1314	Quantitative molecular analysis of the microbial community in marine arctic sediments (Svalbard). <b>2001</b> , 67, 387-95	192
1313	Influence of tomato genotype on growth of inoculated and indigenous bacteria in the spermosphere. <b>2001</b> , 67, 514-20	52
1312	Intracellular Actinobacillus actinomycetemcomitans and Porphyromonas gingivalis in buccal epithelial cells collected from human subjects. <b>2001</b> , 69, 2700-7	140
1311	Direct cloning from enrichment cultures, a reliable strategy for isolation of complete operons and genes from microbial consortia. <b>2001</b> , 67, 89-99	154
1310	Direct detection of 16S rRNA in soil extracts by using oligonucleotide microarrays. <b>2001</b> , 67, 4708-16	249
1309	Method for host-independent detection of generalized transducing bacteriophages in natural habitats. <b>2001</b> , 67, 1490-3	50
1308	Application of digital image analysis and flow cytometry to enumerate marine viruses stained with SYBR gold. <b>2001</b> , 67, 539-45	194
1307	Cultivation-independent, semiautomatic determination of absolute bacterial cell numbers in environmental samples by fluorescence in situ hybridization. <b>2001</b> , 67, 5810-8	147
1306	The Host Genotype Affects the Bacterial Community in the Human Gastrointestinal Tract. <b>2001</b> , 13, 129-134	331
1305	Predator-specific enrichment of actinobacteria from a cosmopolitan freshwater clade in mixed continuous culture. <b>2001</b> , 67, 2145-55	99
1304	Application of fluorescent in situ hybridization for specific diagnosis of Pneumocystis carinii pneumonia in foals and pigs. <b>2001</b> , 38, 269-74	20
1303	Comparison of antifungal activities and 16S ribosomal DNA sequences of clinical and environmental isolates of Stenotrophomonas maltophilia. <b>2001</b> , 39, 139-45	89

1302	Growth and phylogenetic properties of novel bacteria belonging to the epsilon subdivision of the Proteobacteria enriched from <i>Alvinella pompejana</i> and deep-sea hydrothermal vents. <b>2001</b> , 67, 4566-72	120
1301	Microbial Life in the Underworld: Biogenicity in Secondary Mineral Formations. <b>2001</b> , 18, 359-368	51
1300	Identifying bacteria in human urine: current practice and the potential for rapid, near-patient diagnosis by sensing volatile organic compounds. <b>2001</b> , 39, 893-906	37
1299	Thermophiles Biodiversity, Ecology, and Evolution. <b>2001</b> ,	6
1298	Environmental Diversity of Bacteria and Archaea. <b>2001</b> , 50, 470-478	285
1297	DNA/DNA hybridization to microarrays reveals gene-specific differences between closely related microbial genomes. <b>2001</b> , 98, 9853-8	146
1296	Alpha- and beta-Proteobacteria control the consumption and release of amino acids on lake snow aggregates. <b>2001</b> , 67, 632-45	106
1295	Changes in bacterial community composition and dynamics and viral mortality rates associated with enhanced flagellate grazing in a mesoeutrophic reservoir. <b>2001</b> , 67, 2723-33	269
1294	Anaerobic Ciliates and Their Metahanogetic Endosymbionts. <b>2001</b> , 451-464	1
1293	In situ PCR/RT-PCR coupled with in situ hybridization for detection of functional gene and gene expression in prokaryotic cells. <b>2001</b> , 409-424	6
1292	Localization of <i>Tropheryma whippelii</i> rRNA in tissues from patients with Whipple's disease. <b>2001</b> , 183, 1229-37	54
1291	Group-specific monitoring of phenol hydroxylase genes for a functional assessment of phenol-stimulated trichloroethylene bioremediation. <b>2001</b> , 67, 4671-7	81
1290	Detection and enumeration of methanotrophs in acidic Sphagnum peat by 16S rRNA fluorescence in situ hybridization, including the use of newly developed oligonucleotide probes for <i>Methylocella palustris</i> . <b>2001</b> , 67, 4850-7	130
1289	Phylogenetic and functional heterogeneity of sediment biofilms along environmental gradients in a glacial stream. <b>2001</b> , 67, 799-807	135
1288	Development and evaluation of functional gene arrays for detection of selected genes in the environment. <b>2001</b> , 67, 5780-90	348
1287	Combination of competitive quantitative PCR and constant-denaturant capillary electrophoresis for high-resolution detection and enumeration of microbial cells. <b>2001</b> , 67, 3897-903	22
1286	Mutualism versus independence: strategies of mixed-species oral biofilms in vitro using saliva as the sole nutrient source. <b>2001</b> , 69, 5794-804	188
1285	In situ accessibility of <i>Escherichia coli</i> 23S rRNA to fluorescently labeled oligonucleotide probes. <b>2001</b> , 67, 961-8	94

1284	Diagnostic examination of human intestinal spirochetosis by fluorescent in situ hybridization for <i>Brachyspira aalborgi</i> , <i>Brachyspira pilosicoli</i> , and other species of the genus <i>Brachyspira</i> (Serpulina). <b>2001</b> , 39, 4111-8	56
1283	Specific detection of <i>Pasteurella multocida</i> in chickens with fowl cholera and in pig lung tissues using fluorescent rRNA in situ hybridization. <b>2001</b> , 39, 2627-33	17
1282	Novel bacterial lineages at the (sub)division level as detected by signature nucleotide-targeted recovery of 16S rRNA genes from bulk soil and rice roots of flooded rice microcosms. <b>2001</b> , 67, 623-31	126
1281	Congruent phylogenies of most common small-subunit rRNA and dissimilatory sulfite reductase gene sequences retrieved from estuarine sediments. <b>2001</b> , 67, 3314-8	54
1280	Identification of bacteria responsible for ammonia oxidation in freshwater aquaria. <b>2001</b> , 67, 5791-800	79
1279	Identification of Mur, an atypical peptidoglycan hydrolase derived from <i>Leuconostoc citreum</i> . <b>2001</b> , 67, 858-64	20
1278	The Taxonomic Value of Bacterial Symbiont Identification in African Psychotria (Rubiaceae). <b>2001</b> , 71, 557	10
1277	Probe selection algorithms with applications in the analysis of microbial communities. <b>2001</b> , 17 Suppl 1, S39-48	55
1276	Characterization of microbial consortia in a terephthalate-degrading anaerobic granular sludge system. <b>2001</b> , 147, 373-382	136
1275	Microbiota responsible for the decomposition of rice straw in a submerged paddy soil estimated from phospholipid fatty acid composition. <b>2001</b> , 47, 569-578	18
1274	Microbial population structures in soil particle size fractions of a long-term fertilizer field experiment. <b>2001</b> , 67, 4215-24	476
1273	Approach to analyze interactions of microorganisms, hydrophobic substrates, and soil colloids leading to formation of composite biofilms, and to study initial events in microbiogeological processes. <b>2001</b> , 336, 317-31	30
1272	Bulk and rhizosphere soil bacterial communities studied by denaturing gradient gel electrophoresis: plant-dependent enrichment and seasonal shifts revealed. <b>2001</b> , 67, 4742-51	901
1271	<i>Herbaspirillum frisingense</i> sp. nov., a new nitrogen-fixing bacterial species that occurs in C4-fibre plants. <b>2001</b> , 51, 157-68	128
1270	Construction of Environmental Libraries for Functional Screening of Enzyme Activity. 63-78	10
1269	The Effect of the Prebiotic Inulin and the Probiotic <i>Bifidobacterium longum</i> on the Fecal Microflora of Healthy Volunteers Measured by FISH and DGGE. <b>2002</b> , 14, 212-220	36
1268	Bacterial communities associated with aquatic organisms in the floodwater of a Japanese paddy field estimated by RFLP pattern analysis. <b>2002</b> , 48, 185-193	8
1267	Molecular characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. <b>2002</b> , 48, 655-74	94



1266	Microbial Population Analysis as a Measure of Ecosystem Restoration. <b>2002</b> , 6, 283-296	10
1265	Large fraction of dead and inactive bacteria in coastal marine sediments: comparison of protocols for determination and ecological significance. <b>2002</b> , 68, 3509-13	156
1264	Quantification of uncultured Ruminococcus obeum-like bacteria in human fecal samples by fluorescent in situ hybridization and flow cytometry using 16S rRNA-targeted probes. <b>2002</b> , 68, 4225-32	106
1263	Stenotrophomonas rhizophila sp. nov., a novel plant-associated bacterium with antifungal properties. <b>2002</b> , 52, 1937-1944	48
1262	Parallel characterization of anaerobic toluene- and ethylbenzene-degrading microbial consortia by PCR-denaturing gradient gel electrophoresis, RNA-DNA membrane hybridization, and DNA microarray technology. <b>2002</b> , 68, 3215-25	101
1261	Molecular evidence for a uniform microbial community in sponges from different oceans. <b>2002</b> , 68, 4431-40	531
1260	Extensive profiling of a complex microbial community by high-throughput sequencing. <b>2002</b> , 68, 3055-66	99
1259	Cultivating the uncultured. <b>2002</b> , 99, 15681-6	611
1258	Soil microbial community structure across a thermal gradient following a geothermal heating event. <b>2002</b> , 68, 6300-9	101
1257	Communication among oral bacteria. <b>2002</b> , 66, 486-505, table of contents	651
1256	Succession of bacterial community structure along the Changjiang River determined by denaturing gradient gel electrophoresis and clone library analysis. <b>2002</b> , 68, 5142-50	152
1255	Effect of soil ammonium concentration on N <sub>2</sub> O release and on the community structure of ammonia oxidizers and denitrifiers. <b>2002</b> , 68, 5685-92	235
1254	Sequence diversity of Neisseria meningitidis 16S rRNA genes and use of 16S rRNA gene sequencing as a molecular subtyping tool. <b>2002</b> , 40, 4520-7	54
1253	Chapter 1 Natural microbial communities. <b>2002</b> , 1-35	
1252	Seasonality of Chesapeake Bay bacterioplankton species. <b>2002</b> , 68, 5488-97	132
1251	Unveiling the organisms behind novel eukaryotic ribosomal DNA sequences from the ocean. <b>2002</b> , 68, 4554-8	163
1250	Development and evaluation of a 16S ribosomal DNA array-based approach for describing complex microbial communities in ready-to-eat vegetable salads packed in a modified atmosphere. <b>2002</b> , 68, 1146-56	93
1249	Numerical dominance and phylotype diversity of marine Rhodobacter species during early colonization of submerged surfaces in coastal marine waters as determined by 16S ribosomal DNA sequence analysis and fluorescence in situ hybridization. <b>2002</b> , 68, 496-504	80

1248	Base-specific fragmentation of amplified 16S rRNA genes analyzed by mass spectrometry: a tool for rapid bacterial identification. <b>2002</b> , 99, 7039-44	102
1247	Microbial behavior in a heterogeneous world. <b>2002</b> , 296, 1068-71	195
1246	Natural communities of novel archaea and bacteria with a string-of-pearls-like morphology: molecular analysis of the bacterial partners. <b>2002</b> , 68, 933-7	63
1245	Diversity of nitrite reductase (nirK and nirS) gene fragments in forested upland and wetland soils. <b>2002</b> , 68, 1893-900	202
1244	Indirect Immunofluorescence and FISH for Enumerating Contaminated Site Sulfate-Reducers. <b>2002</b> , 6, 25-38	3
1243	New degenerate Cytophaga-Flexibacter-Bacteroides-specific 16S ribosomal DNA-targeted oligonucleotide probes reveal high bacterial diversity in River Taff epilithon. <b>2002</b> , 68, 201-10	107
1242	Identification of a bacterium that specifically catalyzes the reductive dechlorination of polychlorinated biphenyls with doubly flanked chlorines. <b>2002</b> , 68, 807-12	123
1241	Rapid immunoassays for detection of UV-induced cyclobutane pyrimidine dimers in whole bacterial cells. <b>2002</b> , 68, 2542-9	15
1240	Cyclic AMP and acyl homoserine lactones increase the cultivation efficiency of heterotrophic bacteria from the central Baltic Sea. <b>2002</b> , 68, 3978-87	186
1239	Detection and differentiation of chlamydiae by fluorescence in situ hybridization. <b>2002</b> , 68, 4081-9	64
1238	Influence of Image Acquisition Parameters on Quantitative Measurements of Biofilms using Confocal Laser Scanning Microscopy. <b>2002</b> , 18, 47-56	12
1237	Changes in freshwater bacterial community composition during measurements of microbial and community respiration. <b>2002</b> , 24, 1197-1206	47
1236	Multiple archaeal groups mediate methane oxidation in anoxic cold seep sediments. <b>2002</b> , 99, 7663-8	503
1235	PRIMROSE: a computer program for generating and estimating the phylogenetic range of 16S rRNA oligonucleotide probes and primers in conjunction with the RDP-II database. <b>2002</b> , 30, 3481-9	183
1234	Abundance and phylogenetic affiliation of iron reducers in activated sludge as assessed by fluorescence in situ hybridization and microautoradiography. <b>2002</b> , 68, 4629-36	86
1233	Members of the family Comamonadaceae as primary poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-degrading denitrifiers in activated sludge as revealed by a polyphasic approach. <b>2002</b> , 68, 3206-14	180
1232	Stenotrophomonas rhizophila sp. nov., a novel plant-associated bacterium with antifungal properties. <b>2002</b> , 52, 1937-1944	113
1231	Microbial Ecology of Oil Degrading Porous Pavement Structures. <b>2002</b> , 1	7

1230	Sequencing-independent method to generate oligonucleotide probes targeting a variable region in bacterial 16S rRNA by PCR with detachable primers. <b>2002</b> , 68, 6077-86	28
1229	Molecular Tools for Studying Biogeochemical Cycling in Salt Marshes. <b>2002</b> , 443-468	1
1228	Evolution of the gyrB gene and the molecular phylogeny of Enterobacteriaceae: a model molecule for molecular systematic studies. <b>2002</b> , 52, 531-47	141
1227	Identification of the bacterial endosymbionts in leaf galls of Psychotria (Rubiaceae, angiosperms) and proposal of 'Candidatus Burkholderia kirkii' sp. nov. <b>2002</b> , 52, 2023-2027	38
1226	Soil development and microbial community along an altitudinal transect in trentino mountains. <b>2002</b> , 217-228	2
1225	Are there naturally occurring pleomorphic bacteria in the blood of healthy humans?. <b>2002</b> , 40, 4771-5	75
1224	16S rDNA sequence analysis of environmental Bdellovibrio-and-like organisms (BALO) reveals extensive diversity. <b>2002</b> , 52, 2089-2094	48
1223	Electrochemical regeneration of Fe(III) to support growth on anaerobic iron respiration. <b>2002</b> , 68, 405-7	29
1222	Diversity, dynamics, and activity of bacterial communities during production of an artisanal Sicilian cheese as evaluated by 16S rRNA analysis. <b>2002</b> , 68, 1882-92	297
1221	Microbiology of Composting. <b>2002</b> ,	11
1220	Analysis of bacterial community composition by oligonucleotide fingerprinting of rRNA genes. <b>2002</b> , 68, 3243-50	98
1219	Use of Fe(III) as an electron acceptor to recover previously uncultured hyperthermophiles: isolation and characterization of Geothermobacterium ferrireducens gen. nov., sp. nov. <b>2002</b> , 68, 1735-42	105
1218	Taxonomy of Mollicutes. <b>2002</b> , 1-29	46
1217	Effects of amendment with ferrihydrite and gypsum on the structure and activity of methanogenic populations in rice field soil. <b>2002</b> , 68, 2484-94	123
1216	Mutualistic fermentative digestion in the gastrointestinal tract: diversity and evolution. <b>2002</b> , 42, 319-26	150
1215	Microheterogeneity in 16S ribosomal DNA-defined bacterial populations from a stratified planktonic environment is related to temporal changes and to ecological adaptations. <b>2002</b> , 68, 1706-14	101
1214	Development of 16S rRNA-gene-targeted group-specific primers for the detection and identification of predominant bacteria in human feces. <b>2002</b> , 68, 5445-51	484
1213	Microbial communities from methane hydrate-bearing deep marine sediments in a forearc basin. <b>2002</b> , 68, 3759-70	211

1212	Resuscitation of <i>Salmonella enterica</i> serovar typhimurium and enterohemorrhagic <i>Escherichia coli</i> from the viable but nonculturable state by heat-stable enterobacterial autoinducer. <b>2002</b> , 68, 4788-94	120
1211	Simultaneous extraction from bacterioplankton of total RNA and DNA suitable for quantitative structure and function analyses. <b>2002</b> , 68, 1082-7	100
1210	Development of fluorescent adjacent hybridization probes and their application in real-time PCR for the simultaneous detection and identification of <i>Fervidobacterium</i> and <i>Caloramator</i> . <b>2002</b> , 52, 1837-1843	5
1209	Rapid and sensitive enumeration of viable diluted cells of members of the family enterobacteriaceae in freshwater and drinking water. <b>2002</b> , 68, 5057-63	57
1208	Quantification of bacteria adherent to gastrointestinal mucosa by real-time PCR. <b>2002</b> , 40, 4423-7	254
1207	Use of the <i>Verrucomicrobia</i> -specific probe EUB338-III and fluorescent in situ hybridization for detection of " <i>Candidatus Xiphinematobacter</i> " cells in nematode hosts. <b>2002</b> , 68, 3121-5	44
1206	Changes in bacterial and archaeal assemblages in an equatorial river induced by the water eutrophication of Petit Saut dam reservoir (French Guiana). <b>2002</b> , 26, 209-221	59
1205	Kraft mill residues effects on Monterey pine growth and soil microbial activity. <b>2002</b> , 31, 1004-9	28
1204	Application of fluorescent in situ hybridization coupled with tyramide signal amplification (FISH-TSA) to assess eukaryotic picoplankton composition. <b>2002</b> , 28, 157-166	100
1203	Occurrence and reservoirs of antibiotic resistance genes in the environment. <b>2002</b> , 13, 15-27	94
1202	Compositional changes in free-living bacterial communities along a salinity gradient in two temperate estuaries. <b>2002</b> , 47, 453-470	252
1201	Linking the physiologic and phylogenetic successions in free-living bacterial communities along an estuarine salinity gradient. <b>2002</b> , 47, 471-486	99
1200	Potential of Extremophiles for Biotechnological and Petroleum Applications. <b>2002</b> , 24, 543-559	31
1199	Wheat Genotype-Specific Induction of Soil Microbial Communities Suppressive to Disease Incited by <i>Rhizoctonia solani</i> Anastomosis Group (AG)-5 and AG-8. <b>2002</b> , 92, 1300-7	87
1198	Simulation of biogenic sediment stabilisation by heterotrophic bacteria in an annular flume. <b>2002</b> , 5, 393-407	2
1197	Disruption of <i>narH</i> , <i>narJ</i> , and <i>moaE</i> inhibits heterotrophic nitrification in <i>Pseudomonas</i> strain M19. <b>2002</b> , 68, 6462-5	14
1196	Physical enrichment of polyphosphate-accumulating organisms in activated sludge. <b>2002</b> , 74, 354-61	16
1195	Comparison of fluorescently labeled oligonucleotide and polynucleotide probes for the detection of pelagic marine bacteria and archaea. <b>2002</b> , 68, 661-7	161

1194	Phylogenetic characterization of microbial communities that reductively dechlorinate TCE based upon a combination of molecular techniques. <b>2002</b> , 36, 2652-62	152
1193	A real-time polymerase chain reaction method for monitoring anaerobic, hydrocarbon-degrading bacteria based on a catabolic gene. <b>2002</b> , 36, 3977-84	182
1192	Distinguishing features of 16S rDNA gene for five dominating bacterial genus observed in bioremediation. <b>2002</b> , 9, 819-29	7
1191	Activity and diversity of sulfate-reducing bacteria in a petroleum hydrocarbon-contaminated aquifer. <b>2002</b> , 68, 1516-23	139
1190	Microbial communities and their interactions in soil and rhizosphere ecosystems. <b>2002</b> , 56, 211-36	330
1189	Microbial technologies for the discovery of novel bioactive metabolites. <b>2002</b> , 99, 187-98	108
1188	Molecular identification of cyanobacteria associated with stromatolites from distinct geographical locations. <b>2002</b> , 2, 271-80	52
1187	Microbial degradation of polychlorinated biphenyls (PCBs) in the environment. <b>2002</b> , 36, 29-67	0
1186	Bacterial Community Structure During Yard Trimmings Composting. <b>2002</b> , 25-42	18
1185	Molecular Identification of Airborne Microorganisms from Composting Facilities. <b>2002</b> , 585-594	1
1184	Microbial populations responsible for specific soil suppressiveness to plant pathogens. <b>2002</b> , 40, 309-48	1172
1183	Cervical ureaplasma urealyticum colonization: comparison of PCR and culture for its detection and association with preterm birth. <b>2002</b> , 34, 35-40	20
1182	Enumeration of thermophilic Bacillus species in composts and identification with a Random Amplification Polymorphic DNA (RAPD) protocol. <b>2002</b> , 25, 618-26	32
1181	Tetraponera ants have gut symbionts related to nitrogen-fixing root-nodule bacteria. <b>2002</b> , 269, 2023-7	109
1180	Culture-independent microbial community analysis reveals that inulin in the diet primarily affects previously unknown bacteria in the mouse cecum. <b>2002</b> , 68, 4986-95	97
1179	Long-term manipulations of intact microbial mat communities in a greenhouse collaboratory: simulating earth's present and past field environments. <b>2002</b> , 2, 383-402	61
1178	Exploring prokaryotic diversity in the genomic era. <b>2002</b> , 3, REVIEWS0003	520
1177	RNA stable isotope probing, a novel means of linking microbial community function to phylogeny. <b>2002</b> , 68, 5367-73	482

1176	The class mesomycetozoa: a heterogeneous group of microorganisms at the animal-fungal boundary. <b>2002</b> , 56, 315-44	212
1175	Response of endophytic bacterial communities in potato plants to infection with <i>Erwinia carotovora</i> subsp. <i>atroseptica</i> . <b>2002</b> , 68, 2261-8	229
1174	Functional diversity of soil organisms – a review of recent research activities in Germany. <b>2002</b> , 165, 408	92
1173	Chemical warfare between microbes promotes biodiversity. <b>2002</b> , 99, 786-90	399
1172	Molecular characterisation of bacteria in a wetland used to remove ammoniacal-N from landfill leachate. <b>2002</b> , 20, 529-35	7
1171	Fluorescence in situ hybridization and catalyzed reporter deposition for the identification of marine bacteria. <b>2002</b> , 68, 3094-101	829
1170	Detecting structural and functional differences in activated sludge bacterial communities originating from laboratory treatment of elementally and totally chlorine-free bleaching effluents. <b>2002</b> , 48, 245-55	7
1169	Biodiversity of denitrifying and dinitrogen-fixing bacteria in an acid forest soil. <b>2002</b> , 68, 3818-29	406
1168	Molecular Characterization and Spatial Analysis of a Simplified Gut Microbiota Displaying Colonization Resistance against <i>Clostridium difficile</i> . <b>2002</b> , 14, 203-210	6
1167	Cultivation-dependent characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. <b>2002</b> , 48, 643-54	34
1166	Detection of airborne fungal spores sampled by rotating-arm and Hirst-type spore traps using polymerase chain reaction assays. <b>2002</b> , 33, 283-296	50
1165	Bacterial rhizosphere populations of black poplar and herbal plants to be used for phytoremediation of diesel fuel. <b>2002</b> , 34, 1883-1892	83
1164	Modern scientific methods and their potential in wastewater science and technology. <b>2002</b> , 36, 370-93	53
1163	Microbiological aspects of a bioreactor with submerged membranes for aerobic treatment of municipal wastewater. <b>2002</b> , 36, 394-402	108
1162	Microbial community analysis of thermophilic contact oxidation process by using ribosomal RNA approaches and the quinone profile method. <b>2002</b> , 36, 429-38	56
1161	Sludge population optimisation: a new dimension for the control of biological wastewater treatment systems. <b>2002</b> , 36, 482-90	91
1160	Stability of the bacterial communities supported by a seven-stage biological process treating pharmaceutical wastewater as revealed by PCR-DGGE. <b>2002</b> , 36, 638-46	161
1159	Distribution and activity of ammonia oxidizing bacteria in a large full-scale trickling filter. <b>2002</b> , 36, 1439-48	45

1158	Characterization of microbial community in granular sludge treating brewery wastewater. <b>2002</b> , 36, 1767-75	92
1157	Hydrogeochemical controls on the organic matter and bacterial ecology of a small freshwater wetland in the New Jersey Pine Barrens. <b>2002</b> , 36, 2561-70	17
1156	Successive changes in community structure of an ethylbenzene-degrading sulfate-reducing consortium. <b>2002</b> , 36, 2813-23	31
1155	Microbial community dynamics during start-up of acidogenic anaerobic reactors. <b>2002</b> , 36, 3203-10	121
1154	Characterization of an acetate-degrading sludge without intracellular accumulation of polyphosphate and glycogen. <b>2002</b> , 36, 3211-8	23
1153	Molecular diagnosis of fish and shellfish diseases: present status and potential use in disease control. <b>2002</b> , 206, 19-55	55
1152	Geochemistry and microbial diversity of a trichloroethene-contaminated Superfund site undergoing intrinsic in situ reductive dechlorination. <b>2002</b> , 40, 123-34	37
1151	Endodontic infections: concepts, paradigms, and perspectives. <b>2002</b> , 94, 281-93	192
1150	Fate of Protozoa transiting the digestive tract of the earthworm <i>Lumbricus terrestris</i> L.. <b>2002</b> , 46, 161-175	14
1149	Evaluation of detection of <i>Legionella</i> spp. in water samples by fluorescence in situ hybridization, PCR amplification and bacterial culture. <b>2002</b> , 292, 241-5	30
1148	[Bacteriological risks: detection and tracing]. <b>2002</b> , 325, 901-6; discussion 911-5	2
1147	Rapid turnover of dissolved DMS and DMSP by defined bacterioplankton communities in the stratified euphotic zone of the North Sea. <b>2002</b> , 49, 3017-3038	98
1146	PNA for rapid microbiology. <b>2002</b> , 48, 1-17	136
1145	Automated image analysis and in situ hybridization as tools to study bacterial populations in food resources, gut and cast of <i>Lumbricus terrestris</i> L. <b>2002</b> , 48, 53-68	80
1144	A polyphasic approach for studying the interaction between <i>Ralstonia solanacearum</i> and potential control agents in the tomato phytosphere. <b>2002</b> , 48, 69-86	29
1143	Detection and enumeration of coliforms in drinking water: current methods and emerging approaches. <b>2002</b> , 49, 31-54	417
1142	Investigation of lotic microbial aggregates by a combined technique of fluorescent in situ hybridization and lectin-binding-analysis. <b>2002</b> , 49, 75-87	63
1141	Detection in coal tar waste-contaminated groundwater of mRNA transcripts related to naphthalene dioxygenase by fluorescent in situ hybridization with tyramide signal amplification. <b>2002</b> , 50, 75-84	45

1140	Enumeration of 16S rDNA of <i>Desulfotomaculum</i> lineage 1 in rice field soil by real-time PCR with SybrGreen detection. <b>2002</b> , 50, 155-64	203
1139	Molecular methods for diagnosis of infective endocarditis. <b>2002</b> , 16, 393-412, x	45
1138	A comparison among different methods for evaluating the biomass activity in activated sludge systems: preliminary results. <b>2002</b> , 46, 413-417	7
1137	Bacterial Diversity Studies Using the 16S rRNA Gene Provide a Powerful Research-Based Curriculum for Molecular Biology Laboratory. <b>2002</b> , 3, 18-25	12
1136	Analysis of the differences in microbial community structures between suspended and sessile microorganisms in rivers based on quinone profile. <b>2002</b> , 48, 35-41	9
1135	Biolog for the determination of diversity in microbial communities. <b>2002</b> , 28, 29	13
1134	Bacterial Growth, Culturability and Viability. <b>2002</b> , 211-231	0
1133	A comparison of methods and models for the analysis of water distribution pipe biofilms. <b>2002</b> , 2, 73-80	11
1132	Quantification of functional groups in activated sludge by microautoradiography. <b>2002</b> , 46, 389-395	33
1131	Are filamentous mycolata important in foaming?. <b>2002</b> , 46, 529-533	20
1130	Molecular monitoring of bulking sludge in industrial wastewater treatment plants. <b>2002</b> , 46, 551-558	20
1129	Community structure of micro- and macroflocs in pin-point sludge and the influence of sludge age and potassium addition on microfloc formation. <b>2002</b> , 46, 405-412	20
1128	A comparison of enzymatic and molecular approaches to characterize the cellulolytic microbial ecosystems of the rumen and the cecum. <b>2002</b> , 80, 790-6	43
1127	Molecular and conventional analyses of microbial diversity in mesophilic and thermophilic upflow anaerobic sludge blanket granular sludges. <b>2002</b> , 45, 19-25	50
1126	Distribution of <i>Shewanella putrefaciens</i> and <i>Desulfovibrio vulgaris</i> in sulphidogenic biofilms of industrial cooling water systems determined by fluorescent in situ hybridisation. <b>2002</b> , 28, 123	9
1125	PHA storage from several substrates by different morphological types in an anoxic/aerobic SBR. <b>2002</b> , 46, 337-344	24
1124	DNA Microchip Based Microbial Monitoring of Environmental Systems. <b>2002</b> ,	
1123	In situ examination of microbial populations in a model drinking water distribution system. <b>2002</b> , 2, 283-288	6



1122	. <b>2002</b> ,	32
1121	An algorithm and program for finding sequence specific oligonucleotide probes for species identification. <b>2002</b> , 3, 9	18
1120	The diversity of microorganisms associated with Acromyrmex leafcutter ants. <b>2002</b> , 2, 9	35
1119	The microbial community composition of a nitrifying-denitrifying activated sludge from an industrial sewage treatment plant analyzed by the full-cycle rRNA approach. <b>2002</b> , 25, 84-99	310
1118	16S rRNA sequence analysis of bacteria present in foaming activated sludge. <b>2002</b> , 25, 434-9	15
1117	Improvement of ciliate identification and quantification: a new protocol for fluorescence in situ hybridization (FISH) in combination with silver stain techniques. <b>2002</b> , 25, 555-71	44
1116	Influence of nonylphenol on the microbial community of lake sediments in microcosms. <b>2002</b> , 285, 3-10	25
1115	Microbially mediated redox processes in natural analogues for radioactive waste. <b>2002</b> , 55, 161-74	26
1114	Novel pathogens and chronic diseases. <b>2002</b> , 24, 41-44	
1113	Denaturing gradient gel electrophoresis polymorphism for rapid 16S rDNA clone screening and microbial diversity study. <b>2002</b> , 93, 101-103	21
1112	Extremophiles: Developments of their special functions and potential resources. <b>2002</b> , 94, 518-525	50
1111	In situ identification of microorganisms in biofilm communities. <b>2002</b> , 94, 552-556	23
1110	Adaption of a fragment analysis technique to an automated high-throughput multicapillary electrophoresis device for the precise qualitative and quantitative characterization of microbial communities. <b>2002</b> , 23, 1070-9	32
1109	Polymerase chain reaction-temperature gradient gel electrophoresis requires the use of high-performance liquid chromatography-purified oligonucleotides. <b>2002</b> , 300, 101-3	3
1108	"GFP-display," an easy detection method for single amino acid changes in a target polypeptide: application to random mutagenesis. <b>2002</b> , 300, 103-6	9
1107	The bifidobacterial and Lactobacillus microflora of humans. <b>2002</b> , 22, 231-53	18
1106	Community structure of the microbiota in the floodwater of a Japanese paddy field estimated by restriction fragment length polymorphism and denaturing gradient gel electrophoresis pattern analyses. <b>2002</b> , 36, 306-312	14
1105	Enumeration and biovolume determination of microbial cells B methodological review and recommendations for applications in ecological research. <b>2002</b> , 36, 249-259	41

1104	Consistent association of crenarchaeal Archaea with sponges of the genus <i>Axinella</i> . <b>2002</b> , 140, 739-745	64
1103	Bacterial distribution and phylogenetic diversity in the Changjiang estuary before the construction of the Three Gorges Dam. <b>2002</b> , 43, 82-91	38
1102	Phylogenetic diversity of numerically important Arctic sea-ice bacteria cultured at subzero temperature. <b>2002</b> , 43, 315-28	149
1101	Specific 16S rDNA sequences associated with naphthalene degradation under sulfate-reducing conditions in harbor sediments. <b>2002</b> , 43, 134-45	33
1100	Nitrogen-fixing phylotypes of Chesapeake Bay and Neuse River estuary sediments. <b>2002</b> , 44, 336-43	47
1099	Phylogenetic analysis of intestinal microflora indicates a novel <i>Mycoplasma</i> phylotype in farmed and wild salmon. <b>2002</b> , 44, 175-85	248
1098	Molecular characterization of phenol-degrading bacteria isolated from different Egyptian ecosystems. <b>2002</b> , 43, 217-24	35
1097	Spatial and temporal variation of the intestinal bacterial community in commercially raised broiler chickens during growth. <b>2002</b> , 44, 286-93	161
1096	Phylogenetic diversity of winter bacterioplankton of eutrophic siberian reservoirs as revealed by 16S rRNA gene sequence. <b>2002</b> , 44, 252-9	29
1095	Bacterial alkaline proteases: molecular approaches and industrial applications. <b>2002</b> , 59, 15-32	995
1094	Population dynamics of free-floating and attached bacteria in a styrene-degrading biotrickling filter analyzed by denaturing gradient gel electrophoresis. <b>2002</b> , 59, 585-90	53
1093	Oxygen-limited autotrophic nitrification/denitrification by ammonia oxidisers enables upward motion towards more favourable conditions. <b>2002</b> , 59, 557-66	30
1092	Microbial mats and the search for minimal ecosystems. <b>2002</b> , 5, 177-88	44
1091	In situ assessment of active <i>Thiobacillus</i> species in corroding concrete sewers using fluorescent RNA probes. <i>International Biodeterioration and Biodegradation</i> , <b>2002</b> , 49, 271-276	4.8 49
1090	Molecular phylogeny of parabasalids inferred from small subunit rRNA sequences, with emphasis on the Devescovinidae and Calonymphidae (Trichomonadea). <b>2002</b> , 25, 545-56	38
1089	Rapid induction and reversal of a bacteriostatic condition by controlled expression of toxins and antitoxins. <b>2002</b> , 45, 501-10	310
1088	Group-specific polymerase chain reaction amplification of SSU rRNA-encoding gene fragments from 12 microbial taxa. <b>2002</b> , 2, 356-359	4
1087	Development of a high-volume aerosol collection system for the identification of air-borne micro-organisms. <b>2002</b> , 34, 162-7	81

1086	Histopathological methods for the investigation of microbial communities associated with disease lesions in reef corals. <b>2002</b> , 34, 359-64	59
1085	Community analysis of arbuscular mycorrhizal fungi associated with <i>Ammophila arenaria</i> in Dutch coastal sand dunes. <b>2002</b> , 11, 571-81	154
1084	Identification of marine algicidal <i>Flavobacterium</i> sp. 5 N-3 using multiple probes and whole-cell hybridization. <b>2002</b> , 68, 713-720	15
1083	Prevalence and microdiversity of <i>Alteromonas macleodii</i> -like microorganisms in different oceanic regions. <b>2002</b> , 4, 42-50	65
1082	Occurrence and activity of Archaea in aerated activated sludge wastewater treatment plants. <b>2002</b> , 4, 158-68	61
1081	A review of bacterial methyl halide degradation: biochemistry, genetics and molecular ecology. <b>2002</b> , 4, 193-203	62
1080	Changes in archaeal, bacterial and eukaryal assemblages along a salinity gradient by comparison of genetic fingerprinting methods in a multipond solar saltern. <b>2002</b> , 4, 338-48	374
1079	Phylogenetic 16S rRNA analysis reveals the presence of complex and partly unknown bacterial communities in Tito Bustillo cave, Spain, and on its Palaeolithic paintings. <b>2002</b> , 4, 392-400	71
1078	Prokaryotic genetic diversity throughout the salinity gradient of a coastal solar saltern. <b>2002</b> , 4, 349-60	246
1077	Picobenthic cyanobacterial populations revealed by 16S rRNA-targeted in situ hybridization. <b>2002</b> , 4, 375-82	7
1076	Characterization of the bacterial consortium associated with black band disease in coral using molecular microbiological techniques. <b>2002</b> , 4, 401-13	223
1075	<i>nifH</i> gene diversity in the bacterial community associated with the rhizosphere of <i>Molinia coerulea</i> , an oligonitrophilic perennial grass. <b>2002</b> , 4, 477-81	59
1074	Microbial diversity in ikaite tufa columns: an alkaline, cold ecological niche in Greenland. <b>2002</b> , 4, 487-93	45
1073	High bacterial diversity of a waste gas-degrading community in an industrial biofilter as shown by a 16S rDNA clone library. <b>2002</b> , 4, 721-34	65
1072	Fluorescence in situ hybridization of 16S rRNA gene clones (Clone-FISH) for probe validation and screening of clone libraries. <b>2002</b> , 4, 713-20	103
1071	Prokaryotic and viral diversity patterns in marine plankton. <b>2002</b> , 17, 183-194	30
1070	Evaluation of nested PCR-DGGE (denaturing gradient gel electrophoresis) with group-specific 16S rRNA primers for the analysis of bacterial communities from different wastewater treatment plants. <b>2002</b> , 39, 101-112	39
1069	The ecology of <i>Cytophaga</i> / <i>Flavobacteria</i> in aquatic environments. <b>2002</b> , 39, 91-100	137

1068	New PCR primers for the selective amplification of 16S rDNA from different groups of actinomycetes. <b>2002</b> , 42, 419-429	18
1067	Effect of seawater on treatment performance and microbial population in a biofilter treating coke-oven wastewater. <b>2002</b> , 37, 943-948	13
1066	Marine <i>Pseudoalteromonas</i> sp. Composes Most of the Bacterial Population Developed in Oysters ( <i>Tiostrea chilensis</i> ) Spoiled During Storage. <b>2002</b> , 67, 2300-2303	13
1065	Selection of microbial consortia for treating metal-working fluids. <b>2002</b> , 29, 20-7	24
1064	The search for the ideal biocatalyst. <b>2002</b> , 20, 37-45	245
1063	A hydrogen-based subsurface microbial community dominated by methanogens. <b>2002</b> , 415, 312-5	361
1062	Diversity and phylogenetic analysis of bacteria in the mucosa of chicken ceca and comparison with bacteria in the cecal lumen. <b>2002</b> , 208, 1-7	178
1061	Diversity and structure of the archaeal community in the leachate of a full-scale recirculating landfill as examined by direct 16S rRNA gene sequence retrieval. <b>2002</b> , 214, 235-40	55
1060	Microbiological safety of natural mineral water. <b>2002</b> , 26, 207-22	78
1059	The ecology of Cytophaga-Flavobacteria in aquatic environments. <b>2002</b> , 39, 91-100	781
1058	Evaluation of nested PCR-DGGE (denaturing gradient gel electrophoresis) with group-specific 16S rRNA primers for the analysis of bacterial communities from different wastewater treatment plants. <b>2002</b> , 39, 101-12	335
1057	Molecular diversity of diazotrophs in oligotrophic tropical seagrass bed communities. <b>2002</b> , 39, 113-9	64
1056	Microbial diversity along a transect of agronomic zones. <b>2002</b> , 39, 183-91	92
1055	The long-term effects of UV exclusion on the microbial composition and photosynthetic competence of bacteria in hot-spring microbial mats. <b>2002</b> , 39, 193-209	35
1054	Genetic diversity of bacteria associated with the hindgut of the terrestrial crustacean <i>Porcellio scaber</i> (Crustacea: Isopoda). <b>2002</b> , 40, 171-9	29
1053	Anaerobic activities of bacteria and fungi in moderately acidic conifer and deciduous leaf litter. <b>2002</b> , 41, 27-35	39
1052	Molecular characterization of microbial community in nitrate-removing activated sludge. <b>2002</b> , 41, 85-94	33
1051	Molecular monitoring of microbial diversity in expanded granular sludge bed (EGSB) reactors treating oleic acid. <b>2002</b> , 41, 95-103	43

1050	Molecular analysis of bacterial populations in the ileum of broiler chickens and comparison with bacteria in the cecum. <b>2002</b> , 41, 171-9		129
1049	Field-scale C-labeling of phospholipid fatty acids (PLFA) and dissolved inorganic carbon: tracing acetate assimilation and mineralization in a petroleum hydrocarbon-contaminated aquifer. <b>2002</b> , 41, 259-67		44
1048	Identification of novel Crenarchaeota and Euryarchaeota clusters associated with different depth layers of a forest soil. <b>2002</b> , 42, 89-98		56
1047	Sulfate-reducing bacterial community response to carbon source amendments in contaminated aquifer microcosms. <b>2002</b> , 42, 109-18		48
1046	Gentamicin resistance genes in environmental bacteria: prevalence and transfer. <b>2002</b> , 42, 289-302		161
1045	New PCR primers for the selective amplification of 16S rDNA from different groups of actinomycetes. <b>2002</b> , 42, 419-29		77
1044	Screening for novel enzymes for biocatalytic processes: accessing the metagenome as a resource of novel functional sequence space. <b>2002</b> , 13, 572-7		216
1043	In situ evaluation of the biodeteriorating action of microorganisms and the effects of biocides on carbonate rock of the Jeronimos Monastery (Lisbon). <i>International Biodeterioration and Biodegradation</i> , <b>2002</b> , 49, 1-12	4.8	76
1042	Radical-generating coordination complexes as tools for rapid and effective fragmentation and fluorescent labeling of nucleic acids for microchip hybridization. <b>2002</b> , 311, 103-18		34
1041	Species composition of winter bacterioplankton in two Siberian ponds determined by the 16s rRNA sequence analysis. <b>2002</b> , 382, 51-4		
1040	Natural attenuation: what does the subsurface have in store?. <b>2002</b> , 13, 53-64		62
1039	Microbial aspects of atrazine degradation in natural environments. <b>2002</b> , 13, 11-9		74
1038	Dynamics of Bacterial Abundance, Biomass, Activity, and Community Composition in the Oligotrophic Traunsee and the Traun River (Austria). <b>2002</b> , 2, 137-163		12
1037	Community structure and function in prokaryotic marine plankton. <b>2002</b> , 81, 521-7		21
1036	The distribution and activity of sulphate reducing bacteria in estuarine and coastal marine sediments. <b>2002</b> , 81, 181-7		44
1035	Altering the balance between bacterial production and protistan bacterivory triggers shifts in freshwater bacterial community composition. <b>2002</b> , 81, 453-63		23
1034	Mechanisms of natural soil suppressiveness to soilborne diseases. <b>2002</b> , 81, 557-64		196
1033	Characterizing man-made and natural modifications of microbial diversity and activity in coastal ecosystems. <b>2002</b> , 81, 487-507		39

1032	Effects of above-ground plant species composition and diversity on the diversity of soil-borne microorganisms. <b>2002</b> , 81, 509-20	435
1031	Optical and spectroscopic methods for biofilm examination and monitoring. <b>2002</b> , 1, 227-251	50
1030	Methanotrophic Bacteria of Acidic Sphagnum Peat Bogs. <b>2002</b> , 71, 638-650	41
1029	Specific amplification of the 18S rRNA gene as a method to detect zebra mussel ( <i>Dreissena polymorpha</i> ) larvae in plankton samples. <b>2002</b> , 487, 33-44	23
1028	Flow cytometric techniques for the detection of microorganisms. <b>2002</b> , 24, 91-7	36
1027	Detection and identification of bacterial DNA in patients with cirrhosis and culture-negative, nonneutrocytic ascites. <b>2002</b> , 36, 135-41	204
1026	Changes in bacterial community structure induced by mycorrhizal colonisation in split-root maize. <b>2003</b> , 251, 279-289	151
1025	Microbial Biodiversity in the Water of Lake Baikal. <b>2003</b> , 72, 203-213	22
1024	A Study of the Composition of the Aquatic Bacterial Community of Lake Baikal by the in situ Hybridization Method. <b>2003</b> , 72, 244-245	2
1023	Archaeal community compositions at different depths (up to 30 m) of a municipal solid waste landfill in Taiwan as revealed by 16S rDNA cloning analyses. <b>2003</b> , 25, 719-24	30
1022	Detection of Hyperthermophilic Archaea of the Genus <i>Desulfurococcus</i> by Hybridization with Oligonucleotide Probes. <b>2003</b> , 72, 340-346	3
1021	Molecular detection and direct enumeration of methanogenic Archaea and methanotrophic Bacteria in domestic solid waste landfill soils. <b>2003</b> , 25, 1563-9	27
1020	Denitrification and bacterial community structure in the cascade of six reservoirs on a tropical river in Brazil. <b>2003</b> , 504, 67-76	18
1019	Detection of dioxygenase genes present in various activated sludge. <b>2003</b> , 10, 373-8	23
1018	Combination of microautoradiography and fluorescence in situ hybridization for identification of microorganisms degrading xenobiotic contaminants. <b>2003</b> , 22, 2840-4	7
1017	The uncultured microbial majority. <b>2003</b> , 57, 369-94	1409
1016	Microbial diversity of cryptoendolithic communities from the McMurdo Dry Valleys, Antarctica. <b>2003</b> , 69, 3858-67	230
1015	<i>Gemmatimonas aurantiaca</i> gen. nov., sp. nov., a gram-negative, aerobic, polyphosphate-accumulating micro-organism, the first cultured representative of the new bacterial phylum Gemmatimonadetes phyl. nov. <b>2003</b> , 53, 1155-1163	314

1014	Seasonal population changes in the restriction fragment length polymorphism (RFLP) patterns from PCR-amplified 16S rRNA genes of predominant ribotypes in microbial mat samples from the Ebro Delta (Spain). <b>2003</b> , 46, 190-8		6
1013	In situ growth of the novel SM1 euryarchaeon from a string-of-pearls-like microbial community in its cold biotope, its physical separation and insights into its structure and physiology. <i>Archives of Microbiology</i> , <b>2003</b> , 180, 211-7	3	47
1012	Intracellular bacteria associated with the ascidian <i>Ecteinascidia turbinata</i> : phylogenetic and in situ hybridisation analysis. <b>2003</b> , 143, 99-110		57
1011	In situ identification by fluorescently labeled oligonucleotide probes of morphologically similar, closely related ciliate species. <b>2003</b> , 45, 156-62		26
1010	Bacterioplankton community structure in a maritime antarctic oligotrophic lake during a period of holomixis, as determined by denaturing gradient gel electrophoresis (DGGE) and fluorescence in situ hybridization (FISH). <b>2003</b> , 46, 92-105		39
1009	Dynamics of microcystin-degrading bacteria in mucilage of <i>Microcystis</i> . <b>2003</b> , 46, 279-88		77
1008	Dynamics of microbial populations and strong selection for <i>Cycloclasticus pugetii</i> following the Nakhodka oil spill. <b>2003</b> , 46, 442-53		71
1007	Archaeal nucleic acids in picoplankton from great lakes on three continents. <b>2003</b> , 46, 238-48		82
1006	Temporal patterns in bacterial communities in three temperate lakes of different trophic status. <b>2003</b> , 46, 391-405		160
1005	Bacterial community dynamics during biostimulation and bioaugmentation experiments aiming at chlorobenzene degradation in groundwater. <b>2003</b> , 46, 161-76		61
1004	Characterization of microbial diversity in hypersaline environments by melting profiles and reassociation kinetics in combination with terminal restriction fragment length polymorphism (T-RFLP). <b>2003</b> , 46, 291-301		65
1003	Application of polyhydroxyalkanoates for denitrification in water and wastewater treatment. <b>2003</b> , 61, 103-9		130
1002	Phylogenetic analysis of an anaerobic microbial consortium deiodinating 5-amino-2,4,6-triiodoisophthalic acid. <b>2003</b> , 62, 400-6		16
1001	Effect of dissolved oxygen concentration on sludge settleability. <b>2003</b> , 62, 586-93		80
1000	Methanogen population in a marine biofilm corrosive to mild steel. <b>2003</b> , 63, 101-6		68
999	Effects of genetically modified plants on microbial communities and processes in soil. <b>2003</b> , 37, 329-337		112
998	Long-term cattle manure application in soil. II. Effect on soil microbial populations and community structure. <b>2003</b> , 38, 209-215		88
997	A gene encoding a novel extremely thermostable 1,4-beta-xylanase isolated directly from an environmental DNA sample. <b>2003</b> , 7, 63-70		71

996	High 16S rDNA bacterial diversity in glacial meltwater lake sediment, Bratina Island, Antarctica. <b>2003</b> , 7, 275-82	67
995	Substrate uptake in extremely halophilic microbial communities revealed by microautoradiography and fluorescence in situ hybridization. <b>2003</b> , 7, 409-13	53
994	Detecting cellulase and esterase enzyme activities encoded by novel genes present in environmental DNA libraries. <b>2003</b> , 7, 415-21	111
993	Sponge-cell culture? A molecular identification method for sponge cells. <b>2003</b> , 5, 443-9	16
992	Methodologies for the characterization of microbes in industrial environments: a review. <b>2003</b> , 30, 327-56	87
991	A simple screening procedure for heterotrophic nitrifying bacteria with oxygen-tolerant denitrification activity. <b>2003</b> , 95, 409-11	30
990	Enumeration of Bacteroides species in human faeces by fluorescent in situ hybridisation combined with flow cytometry using 16S rRNA probes. <b>2003</b> , 26, 110-8	78
989	Detection of ingested bacteria in benthic ciliates using fluorescence in situ hybridization. <b>2003</b> , 26, 624-30	12
988	Indicators for evaluating soil quality. <b>2003</b> , 98, 255-262	438
987	Influence of precision farming on the microbial community structure and functions in nitrogen turnover. <b>2003</b> , 98, 295-304	37
986	An improved 16S rRNA based PCR method for the specific detection of Salmonella enterica. <b>2003</b> , 80, 67-75	48
985	Identification, isolation and quantification of representative bacteria from fermented cassava dough using an integrated approach of culture-dependent and culture-independent methods. <b>2003</b> , 82, 111-20	64
984	The bacterial flora of fresh and chill-stored pork: analysis by cloning and sequencing of 16S rRNA genes. <b>2003</b> , 83, 245-52	33
983	Potential for broad applications of flow cytometry and fluorescence techniques in microbiological and somatic cell analyses of milk. <b>2003</b> , 85, 269-79	67
982	Effects of freeze-thaw stress during soil storage on microbial communities and methidathion degradation. <b>2003</b> , 35, 1049-1061	81
981	Influence of enhanced malate dehydrogenase expression by alfalfa on diversity of rhizobacteria and soil nutrient availability. <b>2003</b> , 35, 1103-1113	54
980	Eubacterial community structure and population size within the soil light fraction, rhizosphere, and heavy fraction of several agricultural systems. <b>2003</b> , 35, 1245-1255	57
979	Structural differences in the rhizosphere communities of legumes are not equally reflected in community-level physiological profiles. <b>2003</b> , 35, 1405-1410	28



978	Molecular diversity of mesophilic and thermophilic bacteria in a membrane bioreactor determined by fluorescent in situ hybridization with mxaF- and rRNA-targeted probes. <b>2003</b> , 43, 202-9	3
977	Flow cytometric detection of beta-D-glucuronidase gene in wild-type bacterial cells using in-situ PCR. <b>2003</b> , 82, 127-33	5
976	Aerobic biological treatment of synthetic municipal wastewater in membrane-coupled bioreactors. <b>2003</b> , 82, 313-20	26
975	The microbiology of biological phosphorus removal in activated sludge systems. <b>2003</b> , 27, 99-127	415
974	Opportunities to improve fiber degradation in the rumen: microbiology, ecology, and genomics. <b>2003</b> , 27, 663-93	284
973	Polymorphisms within the and genes from pyrrolnitrin and pyoluteorin-producing and spp.. <b>2003</b> , 43, 21-34	31
972	Factors influencing the detection of bacterial cells using fluorescence in situ hybridization (FISH): A quantitative review of published reports. <b>2003</b> , 44, 3-15	153
971	Vertical distributions of sulfate-reducing bacteria and methane-producing archaea quantified by oligonucleotide probe hybridization in the profundal sediment of a mesotrophic lake. <b>2003</b> , 44, 101-8	46
970	Molecular sequence analysis of prokaryotic diversity in the anoxic sediments underlying cyanobacterial mats of two hypersaline ponds in Mediterranean salterns. <b>2003</b> , 44, 117-30	73
969	Design and evaluation of group-specific oligonucleotide probes for quantitative analysis of intestinal ecosystems: their application to assessment of equine colonic microflora. <b>2003</b> , 44, 243-52	41
968	A novel approach for high throughput cultivation assays and the isolation of planktonic bacteria. <b>2003</b> , 45, 161-71	54
967	Isolation and characterization of oligotrophic acido-tolerant methanogenic consortia from a Sphagnum peat bog. <b>2003</b> , 45, 301-15	102
966	Characterization of methanogenic Archaea in the leachate of a closed municipal solid waste landfill. <b>2003</b> , 46, 171-7	76
965	Diversity of activated sludge bacteria receiving the 3-chloroaniline-degradative plasmid pC1gfp. <b>2003</b> , 46, 221-30	20
964	Biohydrogen production from starch in wastewater under thermophilic condition. <b>2003</b> , 69, 149-56	217
963	Tylosin-resistant bacteria cultivated from agricultural soil. <b>2003</b> , 220, 15-20	43
962	Development of specific fluorescent oligonucleotide probes for in situ identification of wine lactic acid bacteria. <b>2003</b> , 225, 115-23	82
961	Study of 18S rRNA and rDNA stability by real-time RT-PCR in heat-inactivated <i>Cryptosporidium parvum</i> oocysts. <b>2003</b> , 226, 237-43	41

960	Stable-isotope probing of nucleic acids: a window to the function of uncultured microorganisms. <b>2003</b> , 14, 296-302		207
959	Biotechnological prospects from metagenomics. <b>2003</b> , 14, 303-10		394
958	Microbiological deterioration and degradation of synthetic polymeric materials: recent research advances. <i>International Biodeterioration and Biodegradation</i> , <b>2003</b> , 52, 69-91	4.8	412
957	Characterization of in vitro oral bacterial biofilms by traditional and molecular methods. <b>2003</b> , 18, 45-9		49
956	Diversity of symbiotic archaeal communities in marine sponges from Korea. <b>2003</b> , 20, 299-304		36
955	Marine bacteria associated with sponge as source of cyclic peptides. <b>2003</b> , 20, 311-6		80
954	Nucleic acid-based, cultivation-independent detection of <i>Listeria</i> spp and genotypes of <i>L. monocytogenes</i> . <b>2003</b> , 35, 215-25		41
953	Recognition of individual genes in a single bacterial cell by fluorescence in situ hybridization–RING-FISH. <b>2004</b> , 51, 89-96		76
952	Application of 16S rDNA-DGGE to examine the microbial ecology associated with a social wasp <i>Vespula germanica</i> . <b>2003</b> , 12, 85-91		77
951	Dynamics of living and dead bacterial cells within a mixed-species biofilm during toluene degradation in a biotrickling filter. <b>2003</b> , 94, 849-54		23
950	Seven-hour fluorescence in situ hybridization technique for enumeration of Enterobacteriaceae in food and environmental water sample. <b>2003</b> , 95, 1182-90		34
949	Evaluation of PCR primers for denaturing gradient gel electrophoresis analysis of fungal communities in compost. <b>2003</b> , 95, 934-48		39
948	Characterization of the goldfish fecal microflora by the fluorescent in situ hybridization method. <b>2003</b> , 69, 21-26		36
947	Gut microflora of abalone <i>Haliotis discus hannai</i> in culture changes coincident with a change in diet. <b>2003</b> , 69, 951-958		42
946	Microbial community and physicochemical analysis of an industrial waste gas biofilter and design of 16S rRNA-targeting oligonucleotide probes. <b>2003</b> , 5, 183-201		57
945	Quantification of cell-specific substrate uptake by probe-defined bacteria under in situ conditions by microautoradiography and fluorescence in situ hybridization. <b>2003</b> , 5, 202-11		97
944	Diversity and dynamics of microbial communities in soils from agro-ecosystems. <b>2003</b> , 5, 441-52		234
943	Specificity in the settlement -- modifying response of bacterial biofilms towards zoospores of the marine alga <i>Enteromorpha</i> . <b>2003</b> , 5, 338-49		134

942	The bacterial ecology of a plague-like disease affecting the Caribbean coral <i>Montastrea annularis</i> . <b>2003</b> , 5, 370-82	177
941	Method of DNA extraction and application of multiplex polymerase chain reaction to detect toxigenic <i>Vibrio cholerae</i> O1 and O139 from aquatic ecosystems. <b>2003</b> , 5, 599-606	76
940	Molecular characterization of endolithic cyanobacteria inhabiting exposed dolomite in central Switzerland. <b>2003</b> , 5, 618-27	73
939	Microbial community dynamics during start-up operation of flowerpot-using fed-batch reactors for composting of household biowaste. <b>2003</b> , 5, 765-76	36
938	Validation of a more sensitive method for using spotted oligonucleotide DNA microarrays for functional genomics studies on bacterial communities. <b>2003</b> , 5, 933-43	75
937	Diverse microbial communities inhabiting ferromanganese deposits in Lechuguilla and Spider Caves. <b>2003</b> , 5, 1071-86	159
936	Phylogenetic analysis of the microbial populations in the wild herbivore gastrointestinal tract: insights into an unexplored niche. <b>2003</b> , 5, 1212-20	84
935	Stable isotope probing of rRNA and DNA reveals a dynamic methylotroph community and trophic interactions with fungi and protozoa in oxic rice field soil. <b>2004</b> , 6, 60-72	191
934	In situ distribution and activity of nitrifying bacteria in freshwater sediment. <b>2003</b> , 5, 798-803	98
933	Freshwater foraminiferans revealed by analysis of environmental DNA samples. <b>2003</b> , 50, 135-9	58
932	Polymorphisms within the <i>prnD</i> and <i>pltC</i> genes from pyrrolnitrin and pyoluteorin-producing <i>Pseudomonas</i> and <i>Burkholderia</i> spp. <b>2003</b> , 43, 21-34	105
931	Bacterial activity and community composition in stream water and biofilm from an urban river determined by fluorescent in situ hybridization and DGGE analysis. <b>2003</b> , 43, 111-9	163
930	Phylogeny of numerically abundant culturable anaerobic bacteria associated with degradation of rice plant residue in Japanese paddy field soil. <b>2003</b> , 43, 149-61	56
929	Effect of fermentable carbohydrates on piglet faecal bacterial communities as revealed by denaturing gradient gel electrophoresis analysis of 16S ribosomal DNA. <b>2003</b> , 43, 225-35	131
928	Fluorescent hybridisation combined with flow cytometry and hybridisation of total RNA to analyse the composition of microbial communities in human faeces using 16S rRNA probes. <b>2003</b> , 43, 237-45	114
927	Differential detection of type II methanotrophic bacteria in acidic peatlands using newly developed 16S rRNA-targeted fluorescent oligonucleotide probes. <b>2003</b> , 43, 299-308	70
926	Expression of <i>nifH</i> genes by diazotrophic bacteria in the rhizosphere of short form <i>Spartina alterniflora</i> . <b>2003</b> , 43, 411-7	43
925	Cleaning up with genomics: applying molecular biology to bioremediation. <b>2003</b> , 1, 35-44	405

924	Isolation and characterization of filamentous bacteria from paper mill slimes. <i>International Biodeterioration and Biodegradation</i> , <b>2003</b> , 52, 53-62	4.8	31
923	Conservation of the response regulator gene <i>gacA</i> in <i>Pseudomonas</i> species. <b>2003</b> , 5, 1328-40		59
922	Depth distribution of microbial diversity in Mono Lake, a meromictic soda lake in California. <b>2003</b> , 69, 1030-42		291
921	Finding extraterrestrial organisms living on thermosynthesis. <b>2003</b> , 3, 555-64		22
920	Microbial diversity of marine sponges. <b>2003</b> , 37, 59-88		153
919	Metagenomes of complex microbial consortia derived from different soils as sources for novel genes conferring formation of carbonyls from short-chain polyols on <i>Escherichia coli</i> . <b>2003</b> , 5, 46-56		74
918	The big machine and the much-maligned taxonomist DNA taxonomy and the web. <b>2003</b> , 1, 139-143		46
917	Soil-based gene discovery: a new technology to accelerate and broaden biocatalytic applications. <b>2003</b> , 52, 1-27		27
916	Ribosomal RNA and ribosomal proteins in corynebacteria. <b>2003</b> , 104, 41-53		33
915	Improved fluorescence in situ hybridization of individual microbial cells using polynucleotide probes: the network hypothesis. <b>2003</b> , 26, 327-37		21
914	Linking a Bacterial Taxon to Sulfur Cycling in the Sea: Studies of the Marine Roseobacter Group. <b>2003</b> , 20, 375-388		96
913	Tíñez lake as a terrestrial analog of Europa. <b>2003</b> , 3, 863-77		17
912	Extracellular acidic polysaccharide production by a two-membered bacterial coculture. <b>2003</b> , 67, 8-14		4
911	Characterization of hydrocarbon-degrading microbial populations in contaminated and pristine Alpine soils. <b>2003</b> , 69, 3085-92		310
910	Impact of seasonal variations and nutrient inputs on nitrogen cycling and degradation of hexadecane by replicated river biofilms. <b>2003</b> , 69, 5170-7		80
909	Filamentous "Epsilonproteobacteria" dominate microbial mats from sulfidic cave springs. <b>2003</b> , 69, 5503-11		103
908	Rains, drains and active strains: towards online assessment of wastewater bacterial communities. <b>2003</b> , 55, 859-64		20
907	Dynamics of fungal communities in bulk and maize rhizosphere soil in the tropics. <b>2003</b> , 69, 3758-66		219

906	Evidence of chemolithoautotrophy in the bacterial community associated with <i>Alvinella pompejana</i> , a hydrothermal vent polychaete. <b>2003</b> , 69, 5070-8	101
905	Bacterial uptake of DOM released from P-limited phytoplankton. <b>2003</b> , 46, 257-68	59
904	Performance evaluation of the UVAPS: influence of physiological age of airborne bacteria and bacterial stress. <b>2003</b> , 34, 1711-1727	78
903	Active microbial RNA turnover in a grassland soil estimated using a $^{13}\text{CO}_2$ spike. <b>2003</b> , 35, 877-885	107
902	Application of a rapid method for identifying fecal pollution sources in a multi-use estuary. <b>2003</b> , 37, 909-13	75
901	Impact of the repetition of oxygen deficiencies on the filamentous bacteria proliferation in activated sludge. <b>2003</b> , 37, 1991-2000	55
900	Microbial communities in activated sludge performing enhanced biological phosphorus removal in a sequencing batch reactor. <b>2003</b> , 37, 2195-205	62
899	Characterization of activated sludge flocs by confocal laser scanning microscopy and image analysis. <b>2003</b> , 37, 2043-52	82
898	Use of fluorescent in situ hybridization to evidence the presence of <i>Helicobacter pylori</i> in water. <b>2003</b> , 37, 2251-6	56
897	Nitrification efficiency and nitrifying bacteria abundance in combined AS-RBC and A2O systems. <b>2003</b> , 37, 2281-90	79
896	Molecular characterization of the microbial community structure in two activated sludge systems for the advanced treatment of domestic effluents. <b>2003</b> , 37, 3224-32	90
895	Lipase and protease extraction from activated sludge. <b>2003</b> , 37, 3652-7	103
894	Characterization of the microbial community and nitrogen transformation processes associated with moving bed bioreactors in a closed recirculated mariculture system. <b>2003</b> , 215, 187-202	114
893	PCR methodology as a valuable tool for identification of endodontic pathogens. <b>2003</b> , 31, 333-9	64
892	Assessing responses of soil microorganisms to GM plants. <b>2003</b> , 18, 403-410	91
891	Competitive touchdown PCR for estimation of <i>Escherichia coli</i> DNA recovery in soil DNA extraction. <b>2003</b> , 52, 29-38	19
890	A novel approach for extraction of PCR-compatible DNA from activated sludge samples collected from different biological effluent treatment plants. <b>2003</b> , 52, 315-23	58
889	Spectral imaging detection and counting of microbial cells in marine sediment. <b>2003</b> , 53, 57-65	21

888	A quantitative analysis of DNA extraction and purification from compost. <b>2003</b> , 54, 37-45	62
887	Detection methods for the expression of the dissimilatory copper-containing nitrite reductase gene (DnirK) in environmental samples. <b>2003</b> , 55, 41-50	24
886	Comprehensive detection of bacterial populations by PCR amplification of the 16S-23S rRNA spacer region. <b>2003</b> , 55, 91-7	19
885	Fluorescent in situ hybridization applied on samples taken with adhesive tape strips. <b>2003</b> , 55, 65-71	25
884	Improved strategy for presumptive identification of methanogens using 16S riboprinting. <b>2003</b> , 55, 337-49	110
883	Multiplex PCR screening of soil isolates for novel Bacillus-related lineages. <b>2003</b> , 55, 447-58	18
882	Assimilation of toluene carbon along a bacteria-protist food chain determined by <sup>13</sup> C-enrichment of biomarker fatty acids. <b>2003</b> , 55, 635-49	46
881	Amplified functional DNA restriction analysis to determine catechol 2,3-dioxygenase gene diversity in soil bacteria. <b>2003</b> , 55, 697-708	36
880	Modification of fluorescent pseudomonad community and control of apple replant disease induced in a wheat cultivar-specific manner. <b>2003</b> , 24, 57-72	59
879	Extraction of DNA from soil. <b>2003</b> , 39, 183-190	193
878	Fluorescence in situ hybridisation for the identification and characterisation of prokaryotes. <b>2003</b> , 6, 302-9	298
877	Production of rubber-like polymers by microorganisms. <b>2003</b> , 6, 261-70	51
876	Cyanobacterial diversity in natural and artificial microbial mats of Lake Fryxell (McMurdo Dry Valleys, Antarctica): a morphological and molecular approach. <b>2003</b> , 69, 5157-69	372
875	Determining diversity of freshwater fungi on decaying leaves: comparison of traditional and molecular approaches. <b>2003</b> , 69, 2548-54	155
874	Recombinant environmental libraries provide access to microbial diversity for drug discovery from natural products. <b>2003</b> , 69, 49-55	262
873	Detection of bacteria carrying the stx2 gene by in situ loop-mediated isothermal amplification. <b>2003</b> , 69, 5023-8	119
872	Identification of Fungal rDNA Associated with Soil Suppressiveness Against Heterodera schachtii Using Oligonucleotide Fingerprinting. <b>2003</b> , 93, 1006-13	44
871	Pseudomonas syringae and related pathogens. <b>2003</b> ,	2

870	Microbial ecology of an extreme acidic environment, the Tinto River. <b>2003</b> , 69, 4853-65	351
869	Biogeochemistry of Decomposition and Detrital Processing. <b>2003</b> , 249-316	9
868	Metagenome survey of biofilms in drinking-water networks. <b>2003</b> , 69, 7298-309	156
867	The Effect of Lactulose on the Composition of the Intestinal Microbiota and Short-chain Fatty Acid Production in Human Volunteers and a Computer-controlled Model of the Proximal Large Intestine. <b>2003</b> , 15, 94-105	44
866	Terminal restriction fragment length polymorphism data analysis for quantitative comparison of microbial communities. <b>2003</b> , 69, 926-32	253
865	Specific detection of Arcobacter and Campylobacter strains in water and sewage by PCR and fluorescent in situ hybridization. <b>2003</b> , 69, 1181-6	113
864	Mechanisms underlying the impact of humic acids on DNA quantification by SYBR Green I and consequences for the analysis of soils and aquatic sediments. <b>2003</b> , 31, e39	67
863	In Situ Analysis of Structure and Activity of the Nitrifying Community in Biofilms, Aggregates, and Sediments. <b>2003</b> , 20, 313-333	44
862	Advanced Flow Cytometry: Applications in Biological Research. <b>2003</b> ,	5
861	The isotope array, a new tool that employs substrate-mediated labeling of rRNA for determination of microbial community structure and function. <b>2003</b> , 69, 6875-87	197
860	Growth and methane oxidation rates of anaerobic methanotrophic archaea in a continuous-flow bioreactor. <b>2003</b> , 69, 5472-82	112
859	Fidelity of select restriction endonucleases in determining microbial diversity by terminal-restriction fragment length polymorphism. <b>2003</b> , 69, 4823-9	96
858	Formation of pseudo-terminal restriction fragments, a PCR-related bias affecting terminal restriction fragment length polymorphism analysis of microbial community structure. <b>2003</b> , 69, 2555-62	231
857	Use of 16S rRNA gene sequencing for rapid identification and differentiation of Burkholderia pseudomallei and B. mallei. <b>2003</b> , 41, 4647-54	108
856	mRNA differential display in a microbial enrichment culture: simultaneous identification of three cyclohexanone monooxygenases from three species. <b>2003</b> , 69, 334-42	98
855	Specific detection of Dehalococcoides species by fluorescence in situ hybridization with 16S rRNA-targeted oligonucleotide probes. <b>2003</b> , 69, 2879-83	48
854	Dual labeling of Pseudomonas putida with fluorescent proteins for in situ monitoring of conjugal transfer of the TOL plasmid. <b>2003</b> , 69, 4846-52	51
853	N <sub>2</sub> O-producing microorganisms in the gut of the earthworm Aporectodea caliginosa are indicative of ingested soil bacteria. <b>2003</b> , 69, 1655-61	75

852	Metagenomic profiling: microarray analysis of an environmental genomic library. <b>2003</b> , 69, 4927-34	115
851	Evaluation of the redox dye 5-cyano-2,3-tolyl-tetrazolium chloride for activity studies by simultaneous use of microautoradiography and fluorescence in situ hybridization. <b>2003</b> , 69, 641-3	44
850	A genetic system for the rapid isolation of aromatic-ring-hydroxylating dioxygenase activities. <b>2003</b> , 149, 1475-1481	21
849	Anaerobic degradation of flavonoids by <i>Clostridium orbiscindens</i> . <b>2003</b> , 69, 5849-54	178
848	Methodology of protistan discovery: from rRNA detection to quality scanning electron microscope images. <b>2003</b> , 69, 6856-63	48
847	Bacterial community structure and location in Stilton cheese. <b>2003</b> , 69, 3540-8	225
846	Use of a packed-column bioreactor for isolation of diverse protease-producing bacteria from antarctic soil. <b>2003</b> , 69, 1457-64	41
845	Characterization of an autotrophic nitrogen-removing biofilm from a highly loaded lab-scale rotating biological contactor. <b>2003</b> , 69, 3626-35	213
844	Culture-independent identification of pathogenic bacteria and polymicrobial infections in the genitourinary tract of renal transplant recipients. <b>2003</b> , 41, 5500-10	141
843	Automated enumeration of groups of marine picoplankton after fluorescence in situ hybridization. <b>2003</b> , 69, 2631-7	83
842	Rapid screening for freshwater bacterial groups by using reverse line blot hybridization. <b>2003</b> , 69, 5875-83	92
841	Members of a readily enriched beta-proteobacterial clade are common in surface waters of a humic lake. <b>2003</b> , 69, 6550-9	122
840	Detection of <i>Staphylococcus aureus</i> biofilm on tampons and menses components. <b>2003</b> , 188, 519-30	63
839	Diversity and abundance of uncultured cytophaga-like bacteria in the Delaware estuary. <b>2003</b> , 69, 6587-96	71
838	In situ identification of intracellular bacteria related to <i>Paenibacillus</i> spp. in the mycelium of the ectomycorrhizal fungus <i>Laccaria bicolor</i> S238N. <b>2003</b> , 69, 4243-8	119
837	Single-cell enumeration of an uncultivated TM7 subgroup in the human subgingival crevice. <b>2003</b> , 69, 6294-8	48
836	Molecular evidence for novel planctomycete diversity in a municipal wastewater treatment plant. <b>2003</b> , 69, 7354-63	123
835	Molecular characterization of sulfate-reducing bacteria in the Guaymas Basin. <b>2003</b> , 69, 2765-72	246



834	Protocol for rapid fluorescence in situ hybridization of bacteria in cryosections of microarthropods. <b>2003</b> , 69, 2875-8	21
833	In situ accessibility of <i>Saccharomyces cerevisiae</i> 26S rRNA to Cy3-labeled oligonucleotide probes comprising the D1 and D2 domains. <b>2003</b> , 69, 2899-905	40
832	An improved protocol for quantification of freshwater Actinobacteria by fluorescence in situ hybridization. <b>2003</b> , 69, 2928-35	242
831	Bacterial colonization of particles: growth and interactions. <b>2003</b> , 69, 3500-9	110
830	Combining culture-dependent and -independent methodologies for estimation of richness of estuarine bacterioplankton consuming riverine dissolved organic matter. <b>2003</b> , 69, 3607-16	68
829	Rapid identification of bacteria from positive blood cultures by terminal restriction fragment length polymorphism profile analysis of the 16S rRNA gene. <b>2003</b> , 41, 3790-800	29
828	Composition of microbiota in content and mucus from cecae of broiler chickens as measured by fluorescent in situ hybridization with group-specific, 16S rRNA-targeted oligonucleotide probes. <b>2003</b> , 82, 1242-9	54
827	Direct detection of <i>Vibrio cholerae</i> and <i>ctxA</i> in Peruvian coastal water and plankton by PCR. <b>2003</b> , 69, 3676-80	82
826	Root Ecology. <b>2003</b> ,	49
825	Optimization strategies for DNA microarray-based detection of bacteria with 16S rRNA-targeting oligonucleotide probes. <b>2003</b> , 69, 1397-407	176
824	The complex world of gastrointestinal bacteria. <b>2003</b> , 83, 409-427	6
823	Linkages between Dissolved Organic Matter Composition and Bacterial Community Structure. <b>2003</b> , 343-362	12
822	Molecular analysis of fecal microbiota in elderly individuals using 16S rDNA library and T-RFLP. <b>2003</b> , 47, 557-70	133
821	Anaerobic dehalogenation of organohalide contaminants in the marine environment. <b>2003</b> , 53, 61-84	29
820	Prospecting for novel biocatalysts in a soil metagenome. <b>2003</b> , 69, 6235-42	239
819	Design and evaluation of PCR primers for analysis of bacterial populations in wine by denaturing gradient gel electrophoresis. <b>2003</b> , 69, 6801-7	142
818	Microbial community structure in midgut and hindgut of the humus-feeding larva of <i>Pachnoda ehippiata</i> (Coleoptera: Scarabaeidae). <b>2003</b> , 69, 6659-68	163
817	Genetic profiling of noncultivated bacteria from the rhizospheres of sugar beet ( <i>Beta vulgaris</i> ) reveal field and annual variability but no effect of a transgenic herbicide resistance. <b>2003</b> , 49, 1-8	35

816	mRNA extraction and reverse transcription-PCR protocol for detection of nifH gene expression by <i>Azotobacter vinelandii</i> in soil. <b>2003</b> , 69, 1928-35	138
815	Construction and screening of metagenomic libraries derived from enrichment cultures: generation of a gene bank for genes conferring alcohol oxidoreductase activity on <i>Escherichia coli</i> . <b>2003</b> , 69, 1408-16	141
814	Detection of <i>Gallibacterium</i> spp. in chickens by fluorescent 16S rRNA in situ hybridization. <b>2003</b> , 41, 5167-72	21
813	Is the in situ accessibility of the 16S rRNA of <i>Escherichia coli</i> for Cy3-labeled oligonucleotide probes predicted by a three-dimensional structure model of the 30S ribosomal subunit?. <b>2003</b> , 69, 4935-41	66
812	Clade-specific 16S ribosomal DNA oligonucleotides reveal the predominance of a single marine <i>Synechococcus</i> clade throughout a stratified water column in the Red Sea. <b>2003</b> , 69, 2430-43	250
811	Bioaugmentation as a tool to protect the structure and function of an activated-sludge microbial community against a 3-chloroaniline shock load. <b>2003</b> , 69, 1511-20	209
810	Sponges (Porifera). <b>2003</b> ,	15
809	Detection of the free-living forms of sulfide-oxidizing gill endosymbionts in the lucinid habitat ( <i>Thalassia testudinum</i> environment). <b>2003</b> , 69, 6264-7	44
808	Incidence and diversity of microorganisms within the walls of an active deep-sea sulfide chimney. <b>2003</b> , 69, 3580-92	236
807	In situ exposure to low herbicide concentrations affects microbial population composition and catabolic gene frequency in an aerobic shallow aquifer. <b>2003</b> , 69, 461-7	54
806	Bacterial diversity in cases of lung infection in cystic fibrosis patients: 16S ribosomal DNA (rDNA) length heterogeneity PCR and 16S rDNA terminal restriction fragment length polymorphism profiling. <b>2003</b> , 41, 3548-58	168
805	Limitations of the widely used GAM42a and BET42a probes targeting bacteria in the Gammaproteobacteria radiation. <b>2003</b> , 149, 1239-1247	32
804	A census of rRNA genes and linked genomic sequences within a soil metagenomic library. <b>2003</b> , 69, 2684-91	171
803	Detection and diversity assessment of <i>Xylella fastidiosa</i> in field-collected plant and insect samples by using 16S rRNA and gyrB sequences. <b>2003</b> , 69, 4249-55	55
802	Fructans in the diet cause alterations of intestinal mucosal architecture, released mucins and mucosa-associated bifidobacteria in gnotobiotic rats. <b>2003</b> , 89, 597-606	153
801	Genome analysis technologies: towards species identification by genotype. <b>2003</b> , 1, 356-71	14
800	Molecular phylogenetic exploration of bacterial diversity in a Bakreshwar (India) hot spring and culture of <i>Shewanella</i> -related thermophiles. <b>2003</b> , 69, 4332-6	50
799	Distribution and organization of auxotrophic genes on the multichromosomal genome of <i>Burkholderia multivorans</i> ATCC 17616. <b>2003</b> , 185, 3333-43	27

798	Use of DNA and peptide nucleic acid molecular beacons for detection and quantification of rRNA in solution and in whole cells. <b>2003</b> , 69, 5673-8	60
797	Bacterial populations of the floodplain of a South Carolina (USA) stream: A comparison of two species. <b>2003</b> , 156, 255-270	4
796	Opal-A and associated microbes from Wairakei, New Zealand: the first 300 days. <b>2003</b> , 67, 563-579	35
795	SUMMARY PAPER: MECHANISMS OF SIMULTANEOUS BIOLOGICAL NUTRIENT REMOVAL IN CLOSED LOOP BIOREACTORS. <b>2003</b> , 2003, 641-658	3
794	Genomics of oral bacteria. <b>2003</b> , 14, 175-87	36
793	Identity and speciation in marine benthic cyanobacteria: The Phormidium-complex. <b>2003</b> , 109, 35-56	11
792	MOLECULAR TECHNIQUES FOR THE ANALYSIS OF SOIL MICROBIAL PROCESSES: FUNCTIONAL GENE ANALYSIS AND THE UTILITY OF DNA MICROARRAYS. <b>2003</b> , 168, 597-605	15
791	High Culturability of Bacteria in Commercially Available Personal Composters for Fed-batch Treatment of Household Biowaste. <b>2003</b> , 18, 94-99	20
790	Molecular microbiology of gut bacteria: genetic diversity and community structure analysis. <b>2003</b> , 50, 395-406	2
789	References. 413-464	
788	Microbial population dynamics in enhanced biological phosphorus removing activated sludge systems. <b>2003</b> , 2, 273-280	1
787	. <b>2003</b> ,	22
786	Physiological and molecular aspects of growth, non-growth, culturability and viability in bacteria. <b>2003</b> , 1-36	3
785	MOLECULAR ASSESSMENT OF INOCULUM EFFICACY AND PROCESS REPRODUCIBILITY IN COMPOSTING USING ARISA. <b>2003</b> , 46,	5
784	. <b>2003</b> ,	5
783	A culture-independent approach for studying microbial diversity in aerobic granules. <b>2003</b> , 47, 283-290	12
782	Assessment of Microbial Community Variability in Replicate Tubular Nitrifying Bioreactors using PCR and TRFLP Analysis. <b>2003</b> ,	
781	Molecular ecological analysis of porcine ileal microbiota responses to antimicrobial growth promoters. <b>2003</b> , 81, 3035-45	135

780	Improved detection of Salmonella spp. in foods by fluorescent in situ hybridization with 23S rRNA probes: a comparison with conventional culture methods. <b>2003</b> , 66, 723-31	44
779	Microbial community evaluation of anaerobic granular sludge from a hybrid reactor treating pentachlorophenol by using fluorescence in situ hybridization. <b>2003</b> , 48, 65-73	9
778	Understanding bias in microbial community analysis techniques due to rrn operon copy number heterogeneity. <b>2003</b> , 34, 790-4, 796, 798 passim	204
777	Molecular Labeling and Cell Detection of Food Pathogens on Food Processing Surfaces for ISS and Planetary Outpost. <b>2003</b> ,	
776	Detection, enumeration and identification of environmental microorganisms of public health significance. <b>2003</b> , 113-144	3
775	An Assessment of Variability of Pulp Mill Wastewater Treatment System Bacterial Communities using Molecular Methods. <b>2003</b> , 38, 227-242	16
774	The microbiology of phosphorus removal in activated sludge. <b>2003</b> , 373-390	2
773	Laser scanning detection of FISH-labelled Escherichia coli from water samples. <b>2003</b> , 47, 123-129	10
772	Molecular ecology of anaerobic granular sludge grown at different conditions. <b>2003</b> , 48, 57-64	68
771	Nitrogenase genes in PCR and RT-PCR reagents: implications for studies of diversity of functional genes. <b>2003</b> , 35, 996-1002, 1004-5	60
770	Monitoring and characterisation of bacteria in corroding district heating systems using fluorescence in situ hybridisation and microautoradiography. <b>2003</b> , 47, 117-122	17
769	Diversity of Life at the Geothermal SubsurfaceSurface Interface: The Yellowstone Example. <b>2004</b> , 343-354	1
768	Rapid start-up of biofilters for removal of ammonium, iron and manganese from ground water. <b>2004</b> , 53, 509-518	21
767	. <b>2004</b> ,	20
766	Detection, integration and persistence of aeromonads in water distribution pipe biofilms. <b>2004</b> , 2, 83-96	15
765	Evaluation of 50-mer oligonucleotide arrays for detecting microbial populations in environmental samples. <b>2004</b> , 36, 664-70, 672, 674-5	142
764	ANALYSIS OF MICROBIAL COMMUNITY STRUCTURE AND IN SITU ACTIVITY OF NITRIFYING BIOFILMS. <b>2004</b> , 2, 65-74	2
763	Chapter 5 The key role of soil microbes. <b>2004</b> , 29, 127-157	8

762	Integron diversity in heavy-metal-contaminated mine tailings and inferences about integron evolution. <b>2004</b> , 70, 1160-8	111
761	Denaturing gradient gel electrophoretic analysis of ammonia-oxidizing bacterial community structure in the lower Seine River: impact of Paris wastewater effluents. <b>2004</b> , 70, 6726-37	99
760	Effect of trophic status on the culturability and activity of bacteria from a range of lakes in the English Lake District. <b>2004</b> , 70, 2072-8	13
759	Correspondence between community structure and function during succession in phenol- and phenol-plus-trichloroethene-fed sequencing batch reactors. <b>2004</b> , 70, 4950-60	42
758	Bacterial diversity in the human gut. <b>2004</b> , 54, 261-89	58
757	Genome sequence of <i>Symbiobacterium thermophilum</i> , an uncultivable bacterium that depends on microbial commensalism. <b>2004</b> , 32, 4937-44	125
756	Novel epibiotic thiothrix bacterium on a marine amphipod. <b>2004</b> , 70, 3772-5	27
755	Optimization of DNA extraction for quantitative marine bacterioplankton community analysis. <b>2004</b> , 2, 365-373	199
754	An abundance of <i>Escherichia coli</i> is harbored by the mucosa-associated bacterial flora of interleukin-2-deficient mice. <b>2004</b> , 72, 1983-90	34
753	GigaMatrix—An Ultra High-Throughput Tool for Accessing Biodiversity. <b>2004</b> , 9, 200-208	10
752	Taxonomy of Pseudomonads: Experimental Approaches. <b>2004</b> , 3-44	14
751	THE RATE AND PATTERN OF CLADOGENESIS IN MICROBES. <b>2004</b> , 58, 946	5
750	Seasonal incidence of autochthonous antagonistic <i>Roseobacter</i> spp. and <i>Vibrionaceae</i> strains in a turbot larva ( <i>Scophthalmus maximus</i> ) rearing system. <b>2004</b> , 70, 7288-94	74
749	Impact of soil drying-rewetting stress on microbial communities and activities and on degradation of two crop protection products. <b>2004</b> , 70, 2577-87	110
748	Acquisition of an <i>Agrobacterium</i> Ri plasmid and pathogenicity by other alpha-Proteobacteria in cucumber and tomato crops affected by root rot. <b>2004</b> , 70, 2779-85	20
747	Combining catalyzed reporter deposition-fluorescence in situ hybridization and microautoradiography to detect substrate utilization by bacteria and Archaea in the deep ocean. <b>2004</b> , 70, 4411-4	258
746	Use of stable-isotope probing, full-cycle rRNA analysis, and fluorescence in situ hybridization-microautoradiography to study a methanol-fed denitrifying microbial community. <b>2004</b> , 70, 588-96	192
745	<i>Catellibacterium nectarophilum</i> gen. nov., sp. nov., which requires a diffusible compound from a strain related to the genus <i>Sphingomonas</i> for vigorous growth. <b>2004</b> , 54, 955-959	55

744	Molecular analysis of shower curtain biofilm microbes. <b>2004</b> , 70, 4187-92	116
743	Quantitative PCR with 16S rRNA-gene-targeted species-specific primers for analysis of human intestinal bifidobacteria. <b>2004</b> , 70, 167-73	369
742	Processing deep-sea particle-rich water samples for fluorescence in situ hybridization: consideration of storage effects, preservation, and sonication. <b>2004</b> , 70, 25-33	9
741	Development and application of a selective PCR-denaturing gradient gel electrophoresis approach to detect a recently cultivated <i>Bacillus</i> group predominant in soil. <b>2004</b> , 70, 5801-9	14
740	Bloom of filamentous bacteria in a mesotrophic lake: identity and potential controlling mechanism. <b>2004</b> , 70, 6272-81	75
739	Mechanistic approach to the problem of hybridization efficiency in fluorescent in situ hybridization. <b>2004</b> , 70, 7126-39	89
738	A previously unexposed forest soil microbial community degrades high levels of the pollutant 2,4,6-trichlorophenol. <b>2004</b> , 70, 7567-70	23
737	Enzyme production-based approach for determining the functions of microorganisms within a community. <b>2004</b> , 70, 3329-37	19
736	Geomicrobiology of high-level nuclear waste-contaminated vadose sediments at the hanford site, washington state. <b>2004</b> , 70, 4230-41	206
735	Quantification of intestinal bacterial populations by real-time PCR with a universal primer set and minor groove binder probes: a global approach to the enteric flora. <b>2004</b> , 42, 2566-72	108
734	Microbial community structure in a thermophilic anaerobic hybrid reactor degrading terephthalate. <b>2004</b> , 150, 3429-40	72
733	Bacteria as a Source of Coral Nutrition. <b>2004</b> , 231-241	11
732	Microbial Biofilms on Carbonate Rocks from a Quarry and Monuments in Novelda (Alicante, Spain). <b>2004</b> , 79-98	6
731	Improved method for polynucleotide probe-based cell sorting, using DNA-coated microplates. <b>2004</b> , 70, 494-7	15
730	Amazonian Dark Earths Biological Measurements. <b>2003</b> , 287-332	1
729	Contribution of SAR11 bacteria to dissolved dimethylsulfoniopropionate and amino acid uptake in the North Atlantic ocean. <b>2004</b> , 70, 4129-35	162
728	Application of molecular fingerprinting for qualitative assessment of small-intestinal bacterial diversity in dogs. <b>2004</b> , 42, 4702-8	57
727	Use of 16S rRNA, 23S rRNA, and <i>gyrB</i> gene sequence analysis to determine phylogenetic relationships of <i>Bacillus cereus</i> group microorganisms. <b>2004</b> , 42, 3711-30	118

726	Spatial distribution and stability of the eight microbial species of the altered schaedler flora in the mouse gastrointestinal tract. <b>2004</b> , 70, 2791-800	98
725	Microbial diversity and heterogeneity in sandy subsurface soils. <b>2004</b> , 70, 1723-34	110
724	Discovery of the novel candidate phylum "Poribacteria" in marine sponges. <b>2004</b> , 70, 3724-32	238
723	Detection and quantification of gene expression in environmental bacteriology. <b>2004</b> , 70, 3795-806	75
722	Two bacteria phylotypes are predominant in the Suiyo seamount hydrothermal plume. <b>2004</b> , 70, 1190-8	113
721	Microflora ecology of the chicken intestine using 16S ribosomal DNA primers. <b>2004</b> , 83, 1093-8	178
720	Discovering new pathogens: culture-resistant bacteria. <b>2004</b> , 266, 305-22	4
719	Total viable counts, ATP, and endotoxin levels as potential markers of microbial contamination of dental unit water systems. <b>2004</b> , 196, 157-9; discussion 153	21
718	Microbial and Genetic Diversity in Soil Environments. <b>2004</b> , 12, 249-287	1
717	Molecular methods for the analysis of gut microbiota. <b>2004</b> , 16, 71-85	18
716	Reduction in diversity of the colonic mucosa associated bacterial microflora in patients with active inflammatory bowel disease. <b>2004</b> , 53, 685-93	843
715	Molecular detection and identification of <i>Brettanomyces/Dekkera bruxellensis</i> and <i>Brettanomyces/Dekkera anomalus</i> in spoiled wines. <b>2004</b> , 70, 1347-55	85
714	Sequence-specific cleavage of small-subunit (SSU) rRNA with oligonucleotides and RNase H: a rapid and simple approach to SSU rRNA-based quantitative detection of microorganisms. <b>2004</b> , 70, 3650-63	39
713	Culture-independent analysis of fecal enterobacteria in environmental samples by single-cell mRNA profiling. <b>2004</b> , 70, 4432-9	9
712	Metabolic primers for detection of (Per)chlorate-reducing bacteria in the environment and phylogenetic analysis of <i>cld</i> gene sequences. <b>2004</b> , 70, 5651-8	73
711	ENVIRONMENTAL MICROBIAL PROPERTIES AND PROCESSES. <b>2004</b> , 263-280	2
710	Coexistence of dominant groups in marine bacterioplankton community—combination of experimental and modelling approaches. <b>2004</b> , 84, 519-529	16
709	Culture-Independent Analyses of Coral-Associated Microbes. <b>2004</b> , 265-277	53

708	Identification of clinically relevant viridans group streptococci by sequence analysis of the 16S-23S ribosomal DNA spacer region. <b>2004</b> , 42, 2651-7	69
707	RAPD marker and substrate utilization pattern applied to study microbial community diversity in the soil affected by agricultural chemicals. <b>2004</b> , 39, 125-38	4
706	Investigations on cyanobacterial diversity in a shallow estuary (Southern Baltic Sea) including genes relevant to salinity resistance and iron starvation acclimation. <b>2004</b> , 6, 377-87	21
705	Micromanipulation and further identification of FISH-labelled microcolonies of a dominant denitrifying bacterium in activated sludge. <b>2004</b> , 6, 470-9	48
704	Application and validation of DNA microarrays for the 16S rRNA-based analysis of marine bacterioplankton. <b>2004</b> , 6, 638-45	59
703	Graphite electrodes as electron donors for anaerobic respiration. <b>2004</b> , 6, 596-604	556
702	Adaptation of sympatric <i>Achromatium</i> spp. to different redox conditions as a mechanism for coexistence of functionally similar sulphur bacteria. <b>2004</b> , 6, 669-77	26
701	Diversity of the archaeal community in 44 anaerobic digesters as determined by single strand conformation polymorphism analysis and 16S rDNA sequencing. <b>2004</b> , 6, 809-19	158
700	Identification and phylogenetic sorting of bacterial lineages with universally conserved genes and proteins. <b>2004</b> , 6, 754-9	183
699	Design and application of two oligonucleotide probes for the identification of Geodermatophilaceae strains using fluorescence in situ hybridization (FISH). <b>2004</b> , 6, 678-85	21
698	Vertical and temporal shifts in microbial communities in the water column and sediment of saline meromictic Lake Kaiike (Japan), as determined by a 16S rDNA-based analysis, and related to physicochemical gradients. <b>2004</b> , 6, 622-37	65
697	Application of tetranucleotide frequencies for the assignment of genomic fragments. <b>2004</b> , 6, 938-47	270
696	Acetoclastic and hydrogenotrophic methane production and methanogenic populations in an acidic West-Siberian peat bog. <b>2004</b> , 6, 1159-73	227
695	Widespread association of a Rickettsiales-like bacterium with reef-building corals. <b>2004</b> , 6, 1137-48	59
694	Low archaeal diversity linked to seafloor geochemical processes at the Lost City Hydrothermal Field, Mid-Atlantic Ridge. <b>2004</b> , 6, 1086-95	165
693	Uncultured soil bacteria are a reservoir of new antibiotic resistance genes. <b>2004</b> , 6, 981-9	379
692	A multiplex PCR for detection of genes encoding exfoliative toxins from <i>Staphylococcus hyicus</i> . <b>2004</b> , 96, 1265-70	20
691	Evaluation of <i>Cryptosporidium parvum</i> oocyst recovery efficiencies from various filtration cartridges by electrochemiluminescence assays. <b>2004</b> , 39, 156-62	8



690	The growing contributions of molecular biology and immunology to protistan ecology: molecular signatures as ecological tools. <b>2004</b> , 51, 38-48	59
689	Design of 16S rRNA-targeted oligonucleotide probes and microbial community analysis in the denitrification process of a saline industrial wastewater treatment system. <b>2004</b> , 235, 183-189	9
688	Sequence-based approach to finding functional lipases from microbial genome databases. <b>2004</b> , 235, 349-355	37
687	Biodiversity amongst cultivable polycyclic aromatic hydrocarbon-transforming bacteria isolated from an abandoned industrial site. <b>2004</b> , 238, 375-382	39
686	Let them fly or light them up: matrix-assisted laser desorption/ionization time of flight (MALDI-TOF) mass spectrometry and fluorescence in situ hybridization (FISH). <b>2004</b> , 112, 856-85	16
685	Do different implant surfaces exposed in the oral cavity of humans show different biofilm compositions and activities?. <b>2004</b> , 112, 516-22	86
684	Bacterial plasmids in the oral and endodontic microflora. <b>2004</b> , 9, 37-51	11
683	The rate and pattern of cladogenesis in microbes. <b>2004</b> , 58, 946-55	31
682	Problems in monitoring horizontal gene transfer in field trials of transgenic plants. <b>2004</b> , 22, 1105-9	51
681	Stable isotope fractionation analysis as a tool to monitor biodegradation in contaminated aquifers. <b>2004</b> , 75, 215-55	368
680	Characterisation and antimicrobial activity of epibiotic bacteria from <i>Petrosia ficiformis</i> (Porifera, Demospongiae). <b>2004</b> , 309, 21-33	47
679	The effect of an acute copper exposure on the diversity of a microbial community in North Sea sediments as revealed by DGGE analysis--the importance of the protocol. <b>2004</b> , 49, 504-13	30
678	Use of fluorochrome-labeled rRNA targeted oligonucleotide probe and tyramide signal amplification to improve sensitivity of fluorescence in situ hybridization. <b>2004</b> , 98, 282-6	2
677	Molecular biological analysis of microflora in a garbage treatment process under thermoacidophilic conditions. <b>2004</b> , 97, 119-26	21
676	Prebiotic effects of a wheat germ preparation in human healthy subjects. <b>2004</b> , 21, 119-124	23
675	Microbial diversity: facts, problems and prospects. <b>2004</b> , 27, 3-9	53
674	Nitrification and anammox with urea as the energy source. <b>2004</b> , 27, 271-8	30
673	The effect of nucleobase-specific fluorescence quenching on in situ hybridization with rRNA-targeted oligonucleotide probes. <b>2004</b> , 27, 565-72	11

672	Comparative sequence analysis and oligonucleotide probe design based on 23S rRNA genes of Alphaproteobacteria from North Sea bacterioplankton. <b>2004</b> , 27, 573-80	13
671	Characterisation of and immunity to the aerobic bacteria found in the pouch of the brushtail possum <i>Trichosurus vulpecula</i> . <b>2004</b> , 27, 33-46	17
670	TETRA: a web-service and a stand-alone program for the analysis and comparison of tetranucleotide usage patterns in DNA sequences. <b>2004</b> , 5, 163	260
669	Identification of regions in multiple sequence alignments thermodynamically suitable for targeting by consensus oligonucleotides: application to HIV genome. <b>2004</b> , 5, 44	3
668	16S rRNA gene based analysis of <i>Enterobacter sakazakii</i> strains from different sources and development of a PCR assay for identification. <b>2004</b> , 4, 43	90
667	Phylogenetic analysis of archaea in three fractions of cow rumen based on the 16S rDNA sequence. <b>2004</b> , 10, 313-9	71
666	Application of glutaraldehyde for the staining of esterase-active cells with carboxyfluorescein diacetate. <b>2004</b> , 26, 379-83	26
665	Identification of Efficient Denitrifying Bacteria from Tannery Wastewaters in Ethiopia and a Study of the Effects of Chromium III and Sulphide on Their Denitrification Rate. <b>2004</b> , 20, 405-411	15
664	Assessment of the Bacterial Diversity in Fenvalerate-Treated Soil. <b>2004</b> , 20, 509-515	24
663	Screening for Novel Industrial Biocatalysts. <b>2004</b> , 4, 501-504	25
662	ARB: a software environment for sequence data. <b>2004</b> , 32, 1363-71	5075
661	Identifying microorganisms which fill a niche similar to that of the pathogen: a new investigative approach for discovering biological control organisms. <b>2004</b> , 259, 19-27	12
660	Bacteria as bioindicators in wetlands: Bioassessment in the Bonneville Basin of Utah, USA. <b>2004</b> , 24, 600-607	15
659	Dominant microbial composition and its vertical distribution in saline meromictic Lake Kaiike (Japan) as revealed by quantitative oligonucleotide probe membrane hybridization. <b>2004</b> , 70, 4930-40	34
658	Bacterial diversity of the Inner Mongolian Baer Soda Lake as revealed by 16S rRNA gene sequence analyses. <b>2004</b> , 8, 45-51	62
657	A phylogenetic analysis of Wadi el Natrun soda lake cellulase enrichment cultures and identification of cellulase genes from these cultures. <b>2004</b> , 8, 421-9	69
656	Diversity and cold-active hydrolytic enzymes of culturable bacteria associated with Arctic sea ice, Spitzbergen. <b>2004</b> , 8, 475-88	109
655	Investigation of bacterial diversity in Brazilian tropical estuarine sediments reveals high actinobacterial diversity. <b>2004</b> , 86, 317-28	28

654	Microbial community structure along an altitude gradient in three different localities. <b>2004</b> , 49, 105-11	33
653	The effects of plant extracts on microbial community structure in a rumen-simulating continuous-culture system as revealed by molecular profiling. <b>2004</b> , 49, 151-5	46
652	Obstacles to flow cytometric analysis of rumen microbial samples. <b>2004</b> , 49, 183-6	
651	Identification of the <i>bphC</i> gene for meta-cleavage of aromatic pollutants from a metagenomic library derived from lake waters. <b>2004</b> , 9, 393-399	2
650	Quantification of <i>Bacillus</i> species in a wastewater treatment system by the molecular analyses. <b>2004</b> , 9, 482-489	9
649	Flow cytometry for microbial sensing in environmental sustainability applications: current status and future prospects. <b>2004</b> , 49, 37-49	34
648	Bacterial diversity and community structure of a sub-surface aquifer exposed to realistic low herbicide concentrations. <b>2004</b> , 49, 59-69	34
647	Molecular monitoring of culturable bacteria from deep-sea sediment of the Nankai Trough, Leg 190 Ocean Drilling Program. <b>2004</b> , 48, 357-67	55
646	Microbial community-level toxicity testing of linear alkylbenzene sulfonates in aquatic microcosms. <b>2004</b> , 49, 229-41	28
645	An improved fluorescence in situ hybridization protocol for the identification of bacteria and archaea in marine sediments. <b>2004</b> , 50, 203-13	136
644	Rapid identification of probiotic <i>Lactobacillus</i> species by multiplex PCR using species-specific primers based on the region extending from 16S rRNA through 23S rRNA. <b>2004</b> , 239, 267-75	80
643	Molecular hydrogen from water radiolysis as an energy source for bacterial growth in a basin containing irradiating waste. <b>2004</b> , 240, 155-62	24
642	Application and evaluation of denaturing gradient gel electrophoresis to analyse the yeast ecology of wine grapes. <b>2004</b> , 4, 865-77	207
641	Use of low nutrient enrichments to access novel amylase genes in silent diversity of thermophiles. <b>2004</b> , 20, 801-809	20
640	Microbial diversity in soil: ecological theories, the contribution of molecular techniques and the impact of transgenic plants and transgenic microorganisms. <b>2004</b> , 40, 363-385	154
639	<i>Thermobaculum terrenum</i> gen. nov., sp. nov.: a non-phototrophic gram-positive thermophile representing an environmental clone group related to the Chloroflexi (green non-sulfur bacteria) and Thermomicrobia. <i>Archives of Microbiology</i> , <b>2004</b> , 181, 269-77	3 35
638	' <i>Candidatus Hepatincola porcellionum</i> ' gen. nov., sp. nov., a new, stalk-forming lineage of Rickettsiales colonizing the midgut glands of a terrestrial isopod. <i>Archives of Microbiology</i> , <b>2004</b> , 181, 299-304	3 45
637	A conspicuous H <sub>2</sub> S-oxidizing microbial mat from a high-latitude Arctic fjord (Young Sound, NE Greenland). <b>2004</b> , 145, 51	14

636	Phylogenetic diversity of Archaea in prawn farm sediment. <b>2004</b> , 146, 133-142	10
635	Microbial communities associated with electrodes harvesting electricity from a variety of aquatic sediments. <b>2004</b> , 48, 178-90	384
634	Identification of planctomycetes with order-, genus-, and strain-specific 16S rRNA-targeted probes. <b>2004</b> , 47, 243-51	39
633	Culturable bacteria in subglacial sediments and ice from two Southern Hemisphere glaciers. <b>2004</b> , 47, 329-40	201
632	Wheat cultivar-specific selection of 2,4-diacetylphloroglucinol-producing fluorescent <i>Pseudomonas</i> species from resident soil populations. <b>2004</b> , 48, 338-48	122
631	Microbial population dynamics in the sediments of a eutrophic lake (Aydat, France) and characterization of some heterotrophic bacterial isolates. <b>2004</b> , 48, 66-77	17
630	Phylogenetic screening of ribosomal RNA gene-containing clones in Bacterial Artificial Chromosome (BAC) libraries from different depths in Monterey Bay. <b>2004</b> , 48, 473-88	88
629	Effects of culturing on the population structure of a hyperthermophilic virus. <b>2004</b> , 48, 561-6	18
628	FISH shows that <i>Desulfotomaculum</i> spp. are the dominating sulfate-reducing bacteria in a pristine aquifer. <b>2004</b> , 47, 236-42	39
627	Community structure of microbial biofilms associated with membrane-based water purification processes as revealed using a polyphasic approach. <b>2004</b> , 63, 466-73	98
626	Assessment of microbial populations in methyl ethyl ketone degrading biofilters by denaturing gradient gel electrophoresis. <b>2004</b> , 64, 568-75	33
625	DNA isolation from soil samples for cloning in different hosts. <b>2004</b> , 64, 665-70	59
624	High-diversity biofilm for the oxidation of sulfide-containing effluents. <b>2004</b> , 64, 726-34	40
623	Microbial composition of biofilms in a brewery investigated by fatty acid analysis, fluorescence in situ hybridisation and isolation techniques. <b>2004</b> , 66, 100-7	24
622	Environmental genomics: exploring the unmined richness of microbes to degrade xenobiotics. <b>2004</b> , 66, 123-30	87
621	Screening for novel lipolytic enzymes from uncultured soil microorganisms. <b>2004</b> , 65, 720-6	128
620	Mixed lung infection by <i>Legionella pneumophila</i> and <i>Legionella gormanii</i> detected by fluorescent in situ hybridization. <b>2004</b> , 32, 242-5	13
619	Leucine arylamidase activity in the phyllosphere and the litter layer of a Scots pine forest. <b>2004</b> , 47, 153-9	7

618	Molecular quantification of sulfate-reducing microorganisms (carrying dsrAB genes) by competitive PCR in estuarine sediments. <b>2004</b> , 47, 207-14	34
617	Phylogenetic diversity of bacteria associated with Paleolithic paintings and surrounding rock walls in two Spanish caves (Llonçà and La Garma). <b>2004</b> , 47, 235-47	95
616	Spatio-temporal variability and diversity of water column prokaryotic communities in the eastern North Atlantic. <b>2004</b> , 47, 249-62	21
615	Gnotobiotic rats harboring human intestinal microbiota as a model for studying cholesterol-to-coprostanol conversion. <b>2004</b> , 47, 337-43	56
614	Proteome analysis of Pseudomonas sp. K82 biodegradation pathways. <b>2004</b> , 4, 3610-21	30
613	Microbial responses to in situ chemical oxidation, six-phase heating, and steam injection remediation technologies in groundwater. <b>2004</b> , 14, 5-17	15
612	Phylogenetic analysis and in situ identification of the intestinal microbial community of rainbow trout ( <i>Oncorhynchus mykiss</i> , Walbaum). <b>2004</b> , 96, 117-32	188
611	Methods for exploring the faecal microbiome of premature infants: a review. <b>2021</b> , 7, 11	2
610	Microbiome variation during culture growth of the European house dust mite, <i>Dermatophagoides pteronyssinus</i> . <b>2021</b> , 97,	1
609	CARD-FISH in the Sequencing Era: Opening a New Universe of Protistan Ecology. <b>2021</b> , 12, 640066	3
608	Complete, closed and curated genome sequences of subsp. isolates from Australia indicate mobilome-driven localized evolution and novel pathogenicity determinants. <b>2021</b> , 7,	1
607	Biodiversidad bacteriana en un riachuelo con vertido continuo de efluentes de hidrocarburos. <b>2021</b> , 44, 62-74	
606	MagnaExtract, a novel magnetic bead-based extraction method for the molecular detection of antimicrobial resistance genes in fresh water.	
605	Optimizing the hybridization chain reaction-fluorescence in situ hybridization (HCR-FISH) protocol for detection of microbes in sediments. <b>2021</b> , 3, 529-541	2
604	Characterization of Chemical and Bacterial Compositions of Dairy Wastewaters. <b>2021</b> , 2, 179-190	2
603	Microbiota Associated with Different Developmental Stages of the Dry Rot Fungus. <b>2021</b> , 7,	1
602	Biofilm development in a pilot-scale gravity sewer: Physical characteristics, microstructure, and microbial communities. <b>2021</b> , 195, 110838	2
601	Microbiota of Chicken Breast and Thigh Fillets Stored under Different Refrigeration Temperatures Assessed by Next-Generation Sequencing. <b>2021</b> , 10,	5

600	Prokaryotic taxonomy and nomenclature in the age of big sequence data. <b>2021</b> , 15, 1879-1892	24
599	Current Knowledge on the Fungal Degradation Abilities Profiled through Biodeteriorative Plate Essays. <b>2021</b> , 11, 4196	7
598	Metaplasmidome-encoded functions of Siberian low-centered polygonal tundra soils. <b>2021</b> , 15, 3258-3270	0
597	Sampling cores and sequencing depths affected the measurement of microbial diversity in soil quadrats. <b>2021</b> , 767, 144966	2
596	Analysis of microbiota in the stomach and midgut of two penaeid shrimps during probiotic feeding. <b>2021</b> , 11, 9936	3
595	Diversity, Ecological Role and Biotechnological Potential of Antarctic Marine Fungi. <b>2021</b> , 7,	5
594	Triggering Growth via Growth Initiation Factors in Nature: A Putative Mechanism for Cultivation of Previously Uncultivated Microorganisms. <b>2021</b> , 12, 537194	1
593	Selective DNA and Protein Isolation From Marine Macrophyte Surfaces. <b>2021</b> , 12, 665999	1
592	From individual response to population ecology: Environmental factors restricting survival of vegetative bacteria at solid-air interfaces. <b>2021</b> , 773, 144982	
591	Taxonomy and Molecular Phylogeny of Two New Species of Prostomatean Ciliates With Establishment of gen. n. (Alveolata, Ciliophora). <b>2021</b> , 12, 686929	1
590	Alkaloids in Contemporary Drug Discovery to Meet Global Disease Needs. <b>2021</b> , 26,	4
589	Visualization of Gene Reciprocity among Lactic Acid Bacteria in Yogurt by RNase H-Assisted Rolling Circle Amplification-Fluorescence Hybridization. <i>Microorganisms</i> , <b>2021</b> , 9,	4-9 0
588	Insights into the Cultured Bacterial Fraction of Corals. <b>2021</b> , 6, e0124920	11
587	Ecological Divergence Within the Enterobacterial Genus : From Insect Symbionts to Inhabitants of Decomposing Deadwood. <b>2021</b> , 12, 668644	4
586	Life Explorations for Biosignatures in Space. <b>2021</b> , 70, 309-326	0
585	Optimization and mechanism exploration for Escherichia coli transformed with plasmid pUC19 by the combination with ultrasound treatment and chemical method. <b>2021</b> , 74, 105552	2
584	Shaping of the Present-Day Deep Biosphere at Chicxulub by the Impact Catastrophe That Ended the Cretaceous. <b>2021</b> , 12, 668240	3
583	Marine Actinomycetes, New Sources of Biotechnological Products. <b>2021</b> , 19,	10

582	Are microplastic particles a hotspot for the spread and the persistence of antibiotic resistance in aquatic systems?. <i>Environmental Pollution</i> , <b>2021</b> , 279, 116896	9.3	16
581	Characterization of Bacterial Community Dynamics of the Human Mouth Throughout Decomposition Metagenomic, Metatranscriptomic, and Culturing Techniques. <b>2021</b> , 12, 689493		0
580	GUNC: detection of chimerism and contamination in prokaryotic genomes. <b>2021</b> , 22, 178		16
579	Response of root nutrient resorption strategies to rhizosphere soil microbial nutrient utilization along Robinia pseudoacacia plantation chronosequence. <b>2021</b> , 489, 119053		3
578	Combination of Direct Viable Count and Fluorescent In Situ Hybridization (DVC-FISH) as a Potential Method for Identifying Viable 'in Oysters and Mussels. <b>2021</b> , 10,		
577	The methanogenic archaea characteristics and efficacy of aerobic waste sludge in the start-up of anaerobic hybrid reactors treating cassava wastewater. <b>2022</b> , 27, 210162-0		
576	The Application of High-Throughput Technologies for the Study of Microbiome and Cancer. <b>2021</b> , 12, 699793		2
575	Oily Bilge Wastes Harbor a Set of Persistent Hydrocarbonoclastic Bacteria Accompanied by a Variable alkB Gene Composition in Marine Vessel Samples from Southwestern Atlantic Port of Mar del Plata, Argentina. <b>2021</b> , 232, 1		2
574	Micropropagation of Philodendron selloum: Influence of copper sulfate on endophytic bacterial contamination, antioxidant enzyme activity, electrolyte leakage, and plant survival. <b>2021</b> , 139, 230-240		2
573	Antibacterial potential of hive bees honey from Himachal Pradesh, India. <i>Archives of Microbiology</i> , <b>2021</b> , 203, 5029-5041	3	
572	Screening of Neutrophil Activating Factors from a Metagenome Library of Sponge-Associated Bacteria. <b>2021</b> , 19,		0
571	Temperature and Nutrient Limitations Decrease Transfer of Conjugative IncP-1 Plasmid pKJK5 to Wild Strains. <b>2021</b> , 12, 656250		1
570	Release LTP_12_2020, featuring a new ARB alignment and improved 16S rRNA tree for prokaryotic type strains. <b>2021</b> , 44, 126218		8
569	Analysis on Microbial Profiles & Components of Bile in Patients with Recurrent CBD Stones after Endoscopic CBD Stone Removal: A Preliminary Study. <b>2021</b> , 10,		1
568	Bioaugmentation strategy to enhance polycyclic aromatic hydrocarbons anaerobic biodegradation in contaminated soils. <b>2021</b> , 275, 130091		10
567	Microbial activity in alpine soils under climate change. <b>2021</b> , 783, 147012		8
566	Metabolic Differentiation of Co-occurring Accumulibacter Clades Revealed through Genome-Resolved Metatranscriptomics. <b>2021</b> , 6, e0047421		2
565	Occurrence of Helicobacter spp. and Fecal Bacterial Contamination in High-altitude Aquatic Environments from the Andes. <b>2021</b> , 107, 433-440		1

564	Screening of Rhizosphere Bacteria and Nematode Populations Associated with Soybean Roots in the Mpumalanga Highveld of South Africa. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	1
563	The Impact of the Inoculation of Phosphate-Solubilizing Bacteria on Phosphorus Availability and Bacterial Community Dynamics of a Semi-Arid Soil. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	2
562	Recovery strategies intestinal mucosal barrier. <b>2021</b> , 1, 88-95		
561	Elucidating biofilm diversity on water lily leaves through 16S rRNA amplicon analysis: Comparison of four DNA extraction kits. <b>2021</b> , 9, e11444		1
560	Ribovore: ribosomal RNA sequence analysis for GenBank submissions and database curation. <b>2021</b> , 22, 400		2
559	Comparison of conjunctival microbiota of clinically normal Persian cats with and without nasolacrimal duct obstruction. <b>2021</b> , 24, 455-459		0
558	Effect of treatment of pneumonia and otitis media with tildipirosin or florfenicol + flunixin meglumine on health and upper respiratory tract microbiota of preweaned Holstein dairy heifers. <b>2021</b> , 104, 10291-10309		2
557	The catabolic pathways of in situ rhizosphere PAH degraders and the main factors driving PAH rhizoremediation in oil-contaminated soil. <b>2021</b> , 23, 7042-7055		3
556	Fluorescence microscope as a core instrument for extraterrestrial-life detection methods. <b>2021</b> ,		
555	MetaFunPrimer: an Environment-Specific, High-Throughput Primer Design Tool for Improved Quantification of Target Genes. <b>2021</b> , 6, e0020121		1
554	Compositional Shift of Bacterial, Archaeal, and Fungal Communities Is Dependent on Trophic Lifestyles in Rice Paddy Soil. <b>2021</b> , 12, 719486		0
553	Affordable Diffusion Microchamber Array Designs for Isolating Microbes in Classrooms and Laboratories. <b>2021</b> , 22,		
552	Extremophilic Prokaryotic Endoxylanases: Diversity, Applicability, and Molecular Insights. <b>2021</b> , 12, 728475		0
551	Exploration of marine bacterioplankton community assembly mechanisms during chemical dispersant and surfactant-assisted oil biodegradation. <b>2021</b> , 11, 13862-13874		3
550	Assessment of the effect on soil microbial communities of genetically modified soybean and a hybrid from crossing with wild soybean. 1		0
549	Prospects for multi-omics in the microbial ecology of water engineering. <b>2021</b> , 205, 117608		4
548	Easy detection of siderophore production in diluted growth media using an improved CAS reagent. <b>2021</b> , 189, 106310		1
547	Distribution of bacterial concentration and viability in atmospheric aerosols under various weather conditions in the coastal region of China. <b>2021</b> , 795, 148713		3



546	Vinyl chloride and 1,4-dioxane metabolism by <i>Pseudonocardia dioxanivorans</i> CB1190. <b>2021</b> , 2, 100039	0
545	Mining of a novel esterase (est3S) gene from a cow rumen metagenomic library with organosphosphorus insecticides degrading capability: Catalytic insights by site directed mutations, docking, and molecular dynamic simulations. <b>2021</b> , 190, 441-455	10
544	Application, release, ecotoxicological assessment of biocide in building materials and its soil microbial response. <b>2021</b> , 224, 112707	1
543	Microbiota associated with the rhizosphere of <i>Paeonia lactiflora</i> Pall. (ornamental cultivar). <b>2022</b> , 169, 104214	1
542	FISH in Suspension or in Adherent Cells. <b>2021</b> , 2246, 51-67	
541	Introduction. <b>2021</b> , 1-13	1
540	A multi-omic screening approach for the discovery of thermoactive glycoside hydrolases. <b>2021</b> , 25, 101-114	2
539	Fecal microbiome and metabolome differ in healthy and food-allergic twins. <b>2021</b> , 131,	17
538	FISH investigation of the bacterial groups anammox and <i>Azoarcus-Thauera</i> at treatment of landfill leachate. <b>2021</b> , Volume 53, 27-34	1
537	Flow-FISH Using Nucleic Acid Mimic Probes for the Detection of Bacteria. <b>2021</b> , 2246, 263-277	2
536	Nucleic Acid-Based Techniques for Analyzing the Diversity, Structure, and Dynamics of Microbial Communities in Wastewater Treatment. 85-108	2
535	Nucleic Acid-Based Techniques for Analyzing the Diversity, Structure, and Dynamics of Microbial Communities in Wastewater Treatment. <b>2001</b> , 85-108	1
534	Molecular ecology of anaerobic reactor systems. <b>2003</b> , 81, 151-203	13
533	Gene Transfer and the Reconstruction of Life's Early History from Genomic Data. <b>2008</b> , 115-131	3
532	Section 1 update: Extraction of total RNA and DNA from bacterioplankton. <b>2008</b> , 2005-2022	2
531	Microorganisms in the Ancient Terrestrial Subsurface [And in Outer Space?]. <b>2009</b> , 233-248	1
530	Anaerobic Microorganism Involved in the Degradation of DMS(P). <b>1996</b> , 351-360	7
529	Multiplex fluorescence in situ hybridization (M-FISH) and confocal laser scanning microscopy (CLSM) to analyze multispecies oral biofilms. <b>2014</b> , 1147, 65-72	9

528	Experimental approaches to investigating the vaginal biofilm microbiome. <b>2014</b> , 1147, 85-103	1
527	Molecular approaches to recognize relevant and emerging infectious diseases in animals. <b>2015</b> , 1247, 109-24	3
526	Next generation barcode tagged sequencing for monitoring microbial community dynamics. <b>2014</b> , 1096, 101-10	2
525	Bacterial Mixtures, the Future Generation of Inoculants for Sustainable Crop Production. <b>2019</b> , 11-44	3
524	Meta-Pangenome: At the Crossroad of Pangenomics and Metagenomics. <b>2020</b> , 205-218	4
523	Microsensor Techniques to Study in situ Bacterial Metabolic Processes in Hydrocarbon-Polluted Marine Cyanobacterial Mats. <b>2010</b> , 3655-3669	2
522	Attenuating Methane Emission from Paddy Fields. <b>2009</b> , 345-375	1
521	Diversity of Holospora Bacteria in Paramecium and Their Characterization. <b>2009</b> , 161-199	28
520	Marine Microbial Food Web Structure and Function. <b>2003</b> , 265-277	5
519	Syntrophic Interactions in Biodegradative Consortia. <b>2014</b> , 267-277	1
518	Diversity of Plant Root Associated Microbes: Its Regulation by Introduced Biofilms. <b>2013</b> , 351-372	3
517	Bacterial Communities in Various Conditions of the Composting Reactor Revealed by 16S rDNA Clone Analysis and DGGE. <b>2010</b> , 165-177	1
516	Marine Biotechnology. <b>2010</b> , 287-313	6
515	East Kolkata Wetlands and the Regulation of Water Quality. <b>2018</b> , 1293-1299	1
514	Acid Mine Drainage Migration of Belovo Zinc Plant (South Siberia, Russia): A Multidisciplinary Study. <b>2011</b> , 191-208	8
513	Snapshots of Systems. <b>2000</b> , 3-25	27
512	Molecular ecology of aquatic communities: reflections and future directions. <b>1999</b> , 1-8	2
511	Microbe-Mediated Tolerance in Plants Against Biotic and Abiotic Stresses. <b>2019</b> , 173-217	1

510	Endophytes: A Hidden Treasure of Novel Antimicrobial Metabolites. <b>2019</b> , 165-192	2
509	Expression and Extracellular Secretion of Endo-glucanase and Xylanase by <i>Zymomonas mobilis</i> . <b>2019</b> , 187, 239-252	8
508	Microbiology and Treatment of Endodontic Infections. <b>2011</b> , 559-600	15
507	DNA metabarcoding uncovers fungal diversity in soils of protected and non-protected areas on Deception Island, Antarctica. <b>2020</b> , 10, 21986	19
506	Biological Particles in the Indoor Environment. <b>2019</b> , 127-157	2
505	Chapter 7:Microorganisms: Their Role in the Discovery and Development of Medicines. <b>2009</b> , 215-241	4
504	Bioderived ionic liquid-based pretreatment enhances methane production from bagasse.. <b>2020</b> , 10, 14025-14032	32
503	Adapt globally, act locally: the effect of selective sweeps on bacterial sequence diversity. <b>1999</b> , 152, 1459-74	67
502	Methods for estimating gene frequencies and detecting selection in bacterial populations. <b>2000</b> , 155, 499-508	12
501	Whole genome analysis of isolated over 27 years in Australia and New Zealand reveals geographical endemism over multiple lineages and recent evolution under host selection. <b>2016</b> , 2, e000095	15
500	The comparative genomics of <i>Bifidobacterium callitrichos</i> reflects dietary carbohydrate utilization within the common marmoset gut. <b>2018</b> , 4,	12
499	Isolation of colonization-defective <i>Escherichia coli</i> mutants reveals critical requirement for fatty acids in bacterial colony formation. <b>2018</b> , 164, 1122-1132	6
498	Advances in actinomycete research: an ActinoBase review of 2019. <b>2020</b> , 166, 683-694	6
497	Metabolic differentiation of co-occurring <i>Accumulibacter</i> clades revealed through genome-resolved metatranscriptomics.	1
496	Microorganisms should be high on DNA preservation list. <b>2000</b> , 290, 1503	10
495	Metagenomic Methods for the Identification of Active Microorganisms and Genes in Biodegradation Processes. <b>2007</b> , 1079-1088	1
494	Culture-Independent Microbiology. 88-99	16
493	In situ PCR for visualization of microscale distribution of specific genes and gene products in prokaryotic communities. <b>1995</b> , 61, 4074-82	136

492	Rapid differentiation of bacterial species with multiple probes of different lengths in a single slot blot hybridization. <b>1995</b> , 61, 4269-73	5
491	The oligonucleotide probe database. <b>1996</b> , 62, 3557-9	442
490	Degradative capacities and 16S rRNA-targeted whole-cell hybridization of sulfate-reducing bacteria in an anaerobic enrichment culture utilizing alkylbenzenes from crude oil. <b>1996</b> , 62, 3605-13	146
489	Specific detection and analysis of a probiotic Bifidobacterium strain in infant feces. <b>1996</b> , 62, 3668-72	152
488	Estimation of the abundance of an uncultured soil bacterial strain by a competitive quantitative PCR method. <b>1996</b> , 62, 3787-93	143
487	Competition and coexistence of sulfate-reducing and methanogenic populations in anaerobic biofilms. <b>1996</b> , 62, 3847-57	176
486	Cultivation of aerobic chemoorganotrophic proteobacteria and gram-positive bacteria from a hot spring microbial mat. <b>1996</b> , 62, 3917-21	34
485	Phylogenetic analysis of the bacterial communities in marine sediments. <b>1996</b> , 62, 4049-59	171
484	Population analysis in a denitrifying sand filter: conventional and in situ identification of <i>Paracoccus</i> spp. in methanol-fed biofilms. <b>1996</b> , 62, 4329-39	142
483	Identifying numerically abundant culturable bacteria from complex communities: an example from a lignin enrichment culture. <b>1996</b> , 62, 4433-40	72
482	Characterization of universal small-subunit rRNA hybridization probes for quantitative molecular microbial ecology studies. <b>1996</b> , 62, 4504-13	249
481	Activity and three-dimensional distribution of toluene-degrading <i>Pseudomonas putida</i> in a multispecies biofilm assessed by quantitative in situ hybridization and scanning confocal laser microscopy. <b>1996</b> , 62, 4632-40	131
480	Structure and function of a nitrifying biofilm as determined by in situ hybridization and the use of microelectrodes. <b>1996</b> , 62, 4641-7	259
479	Denaturing gradient gel electrophoresis profiles of 16S rRNA-defined populations inhabiting a hot spring microbial mat community. <b>1996</b> , 62, 340-6	653
478	Phylogeny of not-yet-cultured spirochetes from termite guts. <b>1996</b> , 62, 347-52	85
477	Phylogenetic diversity of the intestinal bacterial community in the termite <i>Reticulitermes speratus</i> . <b>1996</b> , 62, 461-8	204
476	Diversity of uncultured microorganisms associated with the seagrass <i>Halophila stipulacea</i> estimated by restriction fragment length polymorphism analysis of PCR-amplified 16S rRNA genes. <b>1996</b> , 62, 766-71	128
475	A computer analysis of primer and probe hybridization potential with bacterial small-subunit rRNA sequences. <b>1996</b> , 62, 872-9	63

474	Phylogenetic position of the spirochetal genus <i>Cristispira</i> . <b>1996</b> , 62, 942-6	17
473	Detection of stratified microbial populations related to <i>Chlorobium</i> and <i>Fibrobacter</i> species in the Atlantic and Pacific oceans. <b>1996</b> , 62, 1171-7	146
472	Genotyping of heterotrophic bacteria from the central baltic sea by use of low-molecular-weight RNA profiles. <b>1996</b> , 62, 1383-90	32
471	Development and field application of a quantitative method for examining natural assemblages of protists with oligonucleotide probes. <b>1996</b> , 62, 1416-23	45
470	Detection and localization of syntrophic propionate-oxidizing bacteria in granular sludge by in situ hybridization using 16S rRNA-based oligonucleotide probes. <b>1996</b> , 62, 1656-63	110
469	Molecular microbial diversity of an agricultural soil in Wisconsin. <b>1996</b> , 62, 1935-43	383
468	Identification in situ and dynamics of bacteria on limnetic organic aggregates (lake snow). <b>1996</b> , 62, 1998-2005	79
467	Community analysis of the bacterial assemblages in the winter cover and pelagic layers of a high mountain lake by in situ hybridization. <b>1996</b> , 62, 2138-44	166
466	Comparison of Fatty Acid Methyl Ester Analysis with the Use of API 20E and NFT Strips for Identification of Aquatic Bacteria. <b>1996</b> , 62, 2183-5	17
465	Diversity of Nitrogen Fixation Genes in the Symbiotic Intestinal Microflora of the Termite <i>Reticulitermes speratus</i> . <b>1996</b> , 62, 2747-52	95
464	Comparative analysis of nitrifying bacteria associated with freshwater and marine aquaria. <b>1996</b> , 62, 2888-96	111
463	An obligately endosymbiotic mycorrhizal fungus itself harbors obligately intracellular bacteria. <b>1996</b> , 62, 3005-10	238
462	Obligate intracellular bacterial parasites of acanthamoebae related to <i>Chlamydia</i> spp. <b>1997</b> , 63, 115-21	191
461	Chemolithotrophic bacteria in copper ores leached at high sulfuric Acid concentration. <b>1997</b> , 63, 332-4	25
460	Detection and characterization of fungal infections of <i>Ammophila arenaria</i> (marram grass) roots by denaturing gradient gel electrophoresis of specifically amplified 18s rDNA. <b>1997</b> , 63, 3858-65	143
459	Group-Specific 16S rRNA-Targeted Oligonucleotide Probes To Identify Thermophilic Bacteria in Marine Hydrothermal Vents. <b>1997</b> , 63, 4061-8	64
458	Isolation of new bacterial species from drinking water biofilms and proof of their in situ dominance with highly specific 16S rRNA probes. <b>1997</b> , 63, 4164-70	101
457	Flow sorting of microorganisms for molecular analysis. <b>1997</b> , 63, 4223-31	127

456	Genetic diversity and expression of the [NiFe] hydrogenase large-subunit gene of <i>Desulfovibrio</i> spp. in environmental samples. <b>1997</b> , 63, 4360-9	58
455	Characterization of microbial diversity by determining terminal restriction fragment length polymorphisms of genes encoding 16S rRNA. <b>1997</b> , 63, 4516-22	1578
454	Development and application of monoclonal antibodies for in situ detection of indigenous bacterial strains in aquatic ecosystems. <b>1997</b> , 63, 4534-42	23
453	Small-subunit rRNA genes and in situ hybridization with oligonucleotides specific for the bacterial symbionts in the larvae of the bryozoan <i>Bugula neritina</i> and proposal of "Candidatus endobugula sertula". <b>1997</b> , 63, 4612-6	83
452	Frequency of formation of chimeric molecules as a consequence of PCR coamplification of 16S rRNA genes from mixed bacterial genomes. <b>1997</b> , 63, 4645-50	216
451	In situ classification and image cytometry of pelagic bacteria from a high mountain lake (gossenkollesee, austria). <b>1997</b> , 63, 4778-83	38
450	In situ reverse transcription, an approach to characterize genetic diversity and activities of prokaryotes. <b>1997</b> , 63, 4907-13	41
449	Analysis of mer Gene Subclasses within Bacterial Communities in Soils and Sediments Resolved by Fluorescent-PCR-Restriction Fragment Length Polymorphism Profiling. <b>1997</b> , 63, 4914-9	61
448	Morphological and compositional shifts in an experimental bacterial community influenced by protists with contrasting feeding modes. <b>1997</b> , 63, 587-95	132
447	Contrasting bacterial strategies to coexist with a flagellate predator in an experimental microbial assemblage. <b>1997</b> , 63, 596-601	102
446	Development and application of 16S rRNA-targeted probes for detection of iron- and manganese-oxidizing sheathed bacteria in environmental samples. <b>1997</b> , 63, 644-51	34
445	Novel group within the kingdom Crenarchaeota from boreal forest soil. <b>1997</b> , 63, 803-5	198
444	Introduction of anaerobic dechlorinating bacteria into soil slurry microcosms and nested-PCR monitoring. <b>1997</b> , 63, 806-11	44
443	A simple method for quantification of uncultured microorganisms in the environment based on in vitro transcription of 16S rRNA. <b>1997</b> , 63, 1028-33	30
442	Group-specific small-subunit rRNA hybridization probes to characterize filamentous foaming in activated sludge systems. <b>1997</b> , 63, 1107-17	103
441	Identification of bacterial cells by chromosomal painting. <b>1997</b> , 63, 1118-23	19
440	Determination of Active Marine Bacterioplankton: a Comparison of Universal 16S rRNA Probes, Autoradiography, and Nucleoid Staining. <b>1997</b> , 63, 1208-13	158
439	Identification and quantification of <i>Bifidobacterium</i> species isolated from food with genus-specific 16S rRNA-targeted probes by colony hybridization and PCR. <b>1997</b> , 63, 1268-73	176

438	Bacterial community in copper sulfide ores inoculated and leached with solution from a commercial-scale copper leaching plant. <b>1997</b> , 63, 1344-8	35
437	Bacterial diversity of a Carolina bay as determined by 16S rRNA gene analysis: confirmation of novel taxa. <b>1997</b> , 63, 1505-14	67
436	Application of flow cytometry and fluorescent in situ hybridization for assessment of exposures to airborne bacteria. <b>1997</b> , 63, 1557-63	83
435	In situ analysis of denitrifying toluene- and m-xylene-degrading bacteria in a diesel fuel-contaminated laboratory aquifer column. <b>1997</b> , 63, 2136-41	107
434	Bacterial population dynamics in a meromictic lake. <b>1997</b> , 63, 2181-8	43
433	Oligonucleotide microchips as genosensors for determinative and environmental studies in microbiology. <b>1997</b> , 63, 2397-402	241
432	Molecular microbial diversity in soils from eastern Amazonia: evidence for unusual microorganisms and microbial population shifts associated with deforestation. <b>1997</b> , 63, 2647-53	470
431	Changes in Cellular States of the Marine Bacterium <i>Deleya aquamarina</i> under Starvation Conditions. <b>1997</b> , 63, 2686-94	8
430	Increase in Fluorescence Intensity of 16S rRNA In Situ Hybridization in Natural Samples Treated with Chloramphenicol. <b>1997</b> , 63, 2735-40	47
429	In situ analysis of nucleic acids in cold-induced nonculturable <i>Vibrio vulnificus</i> . <b>1997</b> , 63, 2754-8	36
428	Molecular microbial diversity of an anaerobic digester as determined by small-subunit rDNA sequence analysis. <b>1997</b> , 63, 2802-13	602
427	A novel means to develop strain-specific DNA probes for detecting bacteria in the environment. <b>1997</b> , 63, 2863-9	24
426	Distribution of microorganisms in deep-sea hydrothermal vent chimneys investigated by whole-cell hybridization and enrichment culture of thermophilic subpopulations. <b>1997</b> , 63, 2876-83	104
425	Phylogenetic analysis and in situ identification of bacteria in activated sludge. <b>1997</b> , 63, 2884-96	524
424	Are Bacteria Omnipresent on <i>Phanerochaete chrysosporium</i> Burdsall?. <b>1997</b> , 63, 2913-4	4
423	Separation of bacterial cells by isoelectric focusing, a new method for analysis of complex microbial communities. <b>1997</b> , 63, 3176-81	27
422	The methanol dehydrogenase structural gene <i>mxoF</i> and its use as a functional gene probe for methanotrophs and methylotrophs. <b>1997</b> , 63, 3218-24	194
421	Quantitative fluorescence in situ hybridization of <i>Aureobasidium pullulans</i> on microscope slides and leaf surfaces. <b>1997</b> , 63, 3261-7	42

420	Improved sensitivity of whole-cell hybridization by the combination of horseradish peroxidase-labeled oligonucleotides and tyramide signal amplification. <b>1997</b> , 63, 3268-73	182
419	A New Sensitive, Whole-Cell Hybridization Technique for Detection of Bacteria Involving a Biotinylated Oligonucleotide Probe Targeting rRNA and Tyramide Signal Amplification. <b>1997</b> , 63, 3274-8	56
418	Diverse uncultivated bacterial groups from soils of the arid southwestern United States that are present in many geographic regions. <b>1997</b> , 63, 3614-21	253
417	Phylogenetic diversity of ultraplankton plastid small-subunit rRNA genes recovered in environmental nucleic acid samples from the Pacific and Atlantic coasts of the United States. <b>1998</b> , 64, 294-303	77
416	Two intracellular symbiotic bacteria from the mulberry psyllid <i>Anomoneura mori</i> (Insecta, Homoptera). <b>1998</b> , 64, 3599-606	147
415	Estimation of the relative abundance of different <i>Bacteroides</i> and <i>Prevotella</i> ribotypes in gut samples by restriction enzyme profiling of PCR-amplified 16S rRNA gene sequences. <b>1998</b> , 64, 3683-9	90
414	Optimization of differential display of prokaryotic mRNA: application to pure culture and soil microcosms. <b>1998</b> , 64, 3698-706	58
413	Bias in template-to-product ratios in multitemplate PCR. <b>1998</b> , 64, 3724-30	1017
412	Distribution and life strategies of two bacterial populations in a eutrophic lake. <b>1998</b> , 64, 3776-83	49
411	Automated confocal laser scanning microscopy and semiautomated image processing for analysis of biofilms. <b>1998</b> , 64, 4115-27	111
410	Seasonal community and population dynamics of pelagic bacteria and archaea in a high mountain lake. <b>1998</b> , 64, 4299-306	202
409	Analysis of subfossil molecular remains of purple sulfur bacteria in a lake sediment. <b>1998</b> , 64, 4513-21	105
408	Detection of <i>Ralstonia solanacearum</i> , which causes brown rot of potato, by fluorescent in situ hybridization with 23S rRNA-targeted probes. <b>1998</b> , 64, 4546-54	60
407	In situ detection of an uncultured predominant bacillus in Dutch grassland soils. <b>1998</b> , 64, 4588-90	32
406	A polyphasic approach To study the diversity and vertical distribution of sulfur-oxidizing thiomicrospira species in coastal sediments of the german wadden Sea. <b>1998</b> , 64, 4650-7	41
405	Assessment of changes in microbial community structure during operation of an ammonia biofilter with molecular tools. <b>1998</b> , 64, 4877-82	73
404	Genetic diversity and phylogeny of rhizobia that nodulate acacia spp. in morocco assessed by analysis of rRNA genes. <b>1998</b> , 64, 4912-7	59
403	Flow cytometric analysis of the in situ accessibility of <i>Escherichia coli</i> 16S rRNA for fluorescently labeled oligonucleotide probes. <b>1998</b> , 64, 4973-82	304



402	Species-specific oligonucleotides for enumeration of <i>Pseudomonas putida</i> F1, <i>Burkholderia</i> sp. strain JS150, and <i>Bacillus subtilis</i> ATCC 7003 in biodegradation experiments. <b>1998</b> , 64, 4994-9	30
401	Characterization of the Cricket Hindgut Microbiota with Fluorescently Labeled rRNA-Targeted Oligonucleotide Probes. <b>1998</b> , 64, 752-5	35
400	Design and evaluation of useful bacterium-specific PCR primers that amplify genes coding for bacterial 16S rRNA. <b>1998</b> , 64, 795-9	1211
399	Phylogeny of the main bacterial 16S rRNA sequences in Drentse A grassland soils (The Netherlands). <b>1998</b> , 64, 871-9	206
398	Bacterial community dynamics during start-up of a trickle-bed bioreactor degrading aromatic compounds. <b>1998</b> , 64, 930-9	59
397	Improved Most-Probable-Number Method To Detect Sulfate-Reducing Bacteria with Natural Media and a Radiotracer. <b>1998</b> , 64, 1700-7	87
396	Phylogeny and identification in situ of <i>Nevskia ramosa</i> . <b>1998</b> , 64, 1895-901	33
395	Quantification of <i>Gordona amarae</i> strains in foaming activated sludge and anaerobic digester systems with oligonucleotide hybridization probes. <b>1998</b> , 64, 2503-12	61
394	Specific detection of <i>Legionella pneumophila</i> : construction of a new 16S rRNA-targeted oligonucleotide probe. <b>1998</b> , 64, 2686-90	49
393	Microbial Community Composition of Wadden Sea Sediments as Revealed by Fluorescence In Situ Hybridization. <b>1998</b> , 64, 2691-6	316
392	Estimation of the state of the bacterial cell wall by fluorescent In situ hybridization. <b>1998</b> , 64, 3059-62	32
391	Specific ribosomal DNA sequences from diverse environmental settings correlate with experimental contaminants. <b>1998</b> , 64, 3110-3	205
390	Growth rate regulation of rRNA content of a marine synechococcus ( <i>Cyanobacterium</i> ) strain. <b>1998</b> , 64, 3346-51	78
389	Hybridization analysis of chesapeake bay viroplankton. <b>1999</b> , 65, 241-50	59
388	Phylogenetic analysis of an anaerobic, trichlorobenzene-transforming microbial consortium. <b>1999</b> , 65, 283-6	137
387	Culture-independent characterization of a gene responsible for nitrogen fixation in the symbiotic microbial community in the gut of the termite <i>Neotermes koshunensis</i> . <b>1999</b> , 65, 4935-42	92
386	Comparative phylogenetic assignment of environmental sequences of genes encoding 16S rRNA and numerically abundant culturable bacteria from an anoxic rice paddy soil. <b>1999</b> , 65, 5050-8	120
385	Natural communities of <i>Achromatium oxaliferum</i> comprise genetically, morphologically, and ecologically distinct subpopulations. <b>1999</b> , 65, 5089-99	44

384	Acetogenic and sulfate-reducing bacteria inhabiting the rhizoplane and deep cortex cells of the sea grass <i>Halodule wrightii</i> . <b>1999</b> , 65, 5117-23	94
383	Diversity of free-living and attached bacteria in offshore Western Mediterranean waters as depicted by analysis of genes encoding 16S rRNA. <b>1999</b> , 65, 514-22	233
382	Morphological and compositional changes in a planktonic bacterial community in response to enhanced protozoan grazing. <b>1999</b> , 65, 1241-50	180
381	A cold-active glucanase from the ruminal bacterium <i>Fibrobacter succinogenes</i> S85. <b>1999</b> , 65, 995-8	38
380	Estimation of bacterial cell numbers in humic acid-rich salt marsh sediments with probes directed to 16S ribosomal DNA. <b>1999</b> , 65, 1516-23	37
379	Diversity of nitrous oxide reductase ( <i>nosZ</i> ) genes in continental shelf sediments. <b>1999</b> , 65, 1681-7	103
378	Combined microautoradiography-16S rRNA probe technique for determination of radioisotope uptake by specific microbial cell types in situ. <b>1999</b> , 65, 1746-52	245
377	Niche-partitioning of <i>Prochlorococcus</i> populations in a stratified water column in the eastern North Atlantic Ocean. <b>1999</b> , 65, 2585-91	175
376	Microbial communities associated with anaerobic benzene degradation in a petroleum-contaminated aquifer. <b>1999</b> , 65, 3056-63	286
375	Seasonal dynamics of bacterioplankton community structure in a eutrophic lake as determined by 5S rRNA analysis. <b>1999</b> , 65, 3164-74	79
374	Culture-independent identification of microorganisms that respond to specified stimuli. <b>1999</b> , 65, 3398-400	92
373	Community analysis of biofilters using fluorescence in situ hybridization including a new probe for the <i>Xanthomonas</i> branch of the class Proteobacteria. <b>1999</b> , 65, 3547-54	34
372	Quantification of the flavonoid-degrading bacterium <i>Eubacterium ramulus</i> in human fecal samples with a species-specific oligonucleotide hybridization probe. <b>1999</b> , 65, 3705-9	41
371	Construction of environmental DNA libraries in <i>Escherichia coli</i> and screening for the presence of genes conferring utilization of 4-hydroxybutyrate. <b>1999</b> , 65, 3901-7	156
370	Two distinct mechanisms cause heterogeneity of 16S rRNA. <b>1999</b> , 181, 78-82	112
369	An unspliced group I intron in 23S rRNA links Chlamydiales, chloroplasts, and mitochondria. <b>1999</b> , 181, 4734-40	46
368	Distinct types of rRNA operons exist in the genome of the actinomycete <i>Thermomonospora chromogena</i> and evidence for horizontal transfer of an entire rRNA operon. <b>1999</b> , 181, 5201-9	202
367	Spent culture supernatant of <i>Mycobacterium tuberculosis</i> H37Ra improves viability of aged cultures of this strain and allows small inocula to initiate growth. <b>1999</b> , 181, 7626-8	34

366	Amplification and restriction endonuclease digestion of a large fragment of genes coding for rRNA as a rapid method for discrimination of closely related pathogenic bacteria. <b>1996</b> , 34, 2894-6	20
365	Evaluation of a fluorescence-labelled oligonucleotide probe targeting 23S rRNA for in situ detection of Salmonella serovars in paraffin-embedded tissue sections and their rapid identification in bacterial smears. <b>1997</b> , 35, 2642-8	45
364	Detection and identification of Candida species in experimentally infected tissue and human blood by rRNA-specific fluorescent in situ hybridization. <b>1997</b> , 35, 2943-8	29
363	Simultaneous identification of campylobacters and prediction of quinolone resistance by comparative sequence analysis. <b>1997</b> , 35, 2398-400	11
362	Development of rRNA-targeted PCR and in situ hybridization with fluorescently labelled oligonucleotides for detection of Yersinia species. <b>1998</b> , 36, 2557-64	84
361	Prevalence of corynebacterial 16S rRNA sequences in patients with bacterial and "nonbacterial" prostatitis. <b>1999</b> , 37, 1863-70	122
360	Specific and rapid detection by fluorescent in situ hybridization of bacteria in clinical samples obtained from cystic fibrosis patients. <b>2000</b> , 38, 818-25	132
359	Fluorescent In situ hybridization allows rapid identification of microorganisms in blood cultures. <b>2000</b> , 38, 830-8	278
358	Fluorescent whole-cell hybridization with 16S rRNA-targeted oligonucleotide probes to identify Brucella spp. by flow cytometry. <b>2000</b> , 38, 2768-71	4
357	Polyphasic taxonomy, a consensus approach to bacterial systematics. <i>Microbiological Reviews</i> , <b>1996</b> , 60, 407-38	1032
356	Soil microorganisms as controllers of atmospheric trace gases (H <sub>2</sub> , CO, CH <sub>4</sub> , OCS, N <sub>2</sub> O, and NO). <i>Microbiological Reviews</i> , <b>1996</b> , 60, 609-40	1054
355	Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses. <i>Microbiological Reviews</i> , <b>1996</b> , 60, 641-96	591
354	Cd1d-dependent regulation of bacterial colonization in the intestine of mice. <b>2009</b> , 119, 1241-50	128
353	The colonisation of building materials by microorganisms as revealed by culturing and molecular methods. <b>2017</b> , 23-28	1
352	Soil. <b>2014</b> , 75-96	3
351	Agroecology of Agromicrobes. <b>2014</b> , 98-119	2
350	Individuality, phenotypic differentiation, dormancy and 'persistence' in culturable bacterial systems: commonalities shared by environmental, laboratory, and clinical microbiology. <b>2015</b> , 4, 179	41
349	Individuality, phenotypic differentiation, dormancy and persistence in culturable bacterial systems: commonalities shared by environmental, laboratory, and clinical microbiology. <b>2015</b> , 4, 179	42

348	Integrated multi-channel optical system for bacteria characterization and its potential use for monitoring of environmental bacteria. <b>2019</b> , 10, 1165-1183	7
347	Testing and validation of high density resequencing microarray for broad range biothreat agents detection. <b>2009</b> , 4, e6569	46
346	Climate change and the potential spreading of marine mucilage and microbial pathogens in the Mediterranean Sea. <b>2009</b> , 4, e7006	93
345	Bacterial communities of two ubiquitous Great Barrier Reef corals reveals both site- and species-specificity of common bacterial associates. <b>2010</b> , 5, e10401	99
344	Sunlight-exposed biofilm microbial communities are naturally resistant to chernobyl ionizing-radiation levels. <b>2011</b> , 6, e21764	52
343	Culture enriched molecular profiling of the cystic fibrosis airway microbiome. <b>2011</b> , 6, e22702	152
342	Comparison of microbial community compositions of injection and production well samples in a long-term water-flooded petroleum reservoir. <b>2011</b> , 6, e23258	65
341	Do patterns of bacterial diversity along salinity gradients differ from those observed for macroorganisms?. <b>2011</b> , 6, e27597	81
340	Assessment of variation in bacterial composition among microhabitats in a mangrove environment using DGGE fingerprints and barcoded pyrosequencing. <b>2012</b> , 7, e29380	73
339	Variable copy number, intra-genomic heterogeneities and lateral transfers of the 16S rRNA gene in <i>Pseudomonas</i> . <b>2012</b> , 7, e35647	35
338	The canine oral microbiome. <b>2012</b> , 7, e36067	137
337	Microbial and chemical characterization of underwater fresh water springs in the Dead Sea. <b>2012</b> , 7, e38319	109
336	Soil bacterial diversity screening using single 16S rRNA gene V regions coupled with multi-million read generating sequencing technologies. <b>2012</b> , 7, e42671	67
335	Efficacy of a marine bacterial nuclease against biofilm forming microorganisms isolated from chronic rhinosinusitis. <b>2013</b> , 8, e55339	54
334	Convenient detection of the citrus greening (huanglongbing) bacterium 'Candidatus Liberibacter asiaticus' by direct PCR from the midrib extract. <b>2013</b> , 8, e57011	27
333	A comparison of morphological and molecular-based surveys to estimate the species richness of <i>Chaetoceros</i> and <i>Thalassiosira</i> (bacillariophyta), in the Bay of Fundy. <b>2013</b> , 8, e73521	16
332	Deciphering the bacterial microbiome of citrus plants in response to 'Candidatus Liberibacter asiaticus'-infection and antibiotic treatments. <b>2013</b> , 8, e76331	25
331	The choice of PCR primers has great impact on assessments of bacterial community diversity and dynamics in a wastewater treatment plant. <b>2013</b> , 8, e76431	65

330	The living dead: bacterial community structure of a cadaver at the onset and end of the bloat stage of decomposition. <b>2013</b> , 8, e77733	146
329	Isolation and characterization of a novel endoglucanase from a <i>Bursaphelenchus xylophilus</i> metagenomic library. <b>2013</b> , 8, e82437	18
328	In silico analysis of antibiotic resistance genes in the gut microflora of individuals from diverse geographies and age-groups. <b>2013</b> , 8, e83823	57
327	Expression and properties of the highly alkalophilic phenylalanine ammonia-lyase of thermophilic <i>Rubrobacter xylanophilus</i> . <b>2014</b> , 9, e85943	16
326	MetaMetaDB: a database and analytic system for investigating microbial habitability. <b>2014</b> , 9, e87126	16
325	Effect of feeding palm oil by-products based diets on total bacteria, cellulolytic bacteria and methanogenic archaea in the rumen of goats. <b>2014</b> , 9, e95713	12
324	Phospholipid-derived fatty acids and quinones as markers for bacterial biomass and community structure in marine sediments. <b>2014</b> , 9, e96219	15
323	Changes in microbial communities, including both uncultured and culturable bacteria, with mid-ocean ballast-water exchange during a voyage from Japan to Australia. <b>2014</b> , 9, e96274	15
322	Temporal variations in the abundance and composition of biofilm communities colonizing drinking water distribution pipes. <b>2014</b> , 9, e98542	64
321	Effect of incubation on bacterial communities of eggshells in a temperate bird, the Eurasian Magpie ( <i>Pica pica</i> ). <b>2014</b> , 9, e103959	27
320	How does conversion of natural tropical rainforest ecosystems affect soil bacterial and fungal communities in the Nile river watershed of Uganda?. <b>2014</b> , 9, e104818	13
319	Necessity and effect of combating <i>Legionella pneumophila</i> in municipal shower systems. <b>2014</b> , 9, e114331	7
318	Response of Methanogens in Arctic Sediments to Temperature and Methanogenic Substrate Availability. <b>2015</b> , 10, e0129733	46
317	Cloacal Microbiome Structure in a Long-Distance Migratory Bird Assessed Using Deep 16sRNA Pyrosequencing. <b>2015</b> , 10, e0137401	50
316	Macroalgal Morphogenesis Induced by Waterborne Compounds and Bacteria in Coastal Seawater. <b>2016</b> , 11, e0146307	44
315	Bacterial Community Diversity Harboured by Interacting Species. <b>2016</b> , 11, e0155392	17
314	The Role of Microbial Community Composition in Controlling Soil Respiration Responses to Temperature. <b>2016</b> , 11, e0165448	27
313	Phylogenetic diversity and in situ detection of eukaryotes in anaerobic sludge digesters. <b>2017</b> , 12, e0172888	26

312	Effect of fruiting body bacteria on the growth of <i>Tricholoma matsutake</i> and its related molds. <b>2018</b> , 13, e0190948	25
311	Comparison of the human microbiome in adults and children with chronic rhinosinusitis. <b>2020</b> , 15, e0242770	1
310	The bifidobacterial and lactobacillus microflora of humans. <b>2002</b> , 22, 231	3
309	Bioaugmentation and biostimulation: a potential strategy for environmental remediation. <b>2018</b> , 6,	8
308	Metagenomic and metatranscriptomic analysis of the microbial community structure and metabolic potential of fermented soybean in Yunnan Province. <b>2020</b> , 40, 18-25	10
307	Phylogenetic analysis on the soil bacteria distributed in karst forest. <b>2009</b> , 40, 827-37	5
306	Impact of next generation sequencing techniques in food microbiology. <b>2014</b> , 15, 293-309	120
305	New extremophilic lipases and esterases from metagenomics. <b>2014</b> , 15, 445-55	120
304	Bacterial composition of the biofilm on valves of <i>Limnoperna fortunei</i> and its role in glyphosate degradation in water. <b>2019</b> , 83, 83-94	2
303	Developmental changes in gut microbiota and enzyme activity predict obesity risk in rats arising from reduced nests. <b>2011</b> , 60, 337-46	20
302	Distribution of Growth-Inhibiting Bacteria against the Toxic Dinoflagellate <i>Alexandrium catenella</i> (Group I) in Akkeshi-Ko Estuary and Akkeshi Bay, Hokkaido, Japan. <b>2021</b> , 11, 172	4
301	Evaluation of Bioaerosol Bacterial Components of a Wastewater Treatment Plant Through an Integrate Approach and In Vivo Assessment. <b>2019</b> , 17,	8
300	Methodological issues in the study of intestinal microbiota in irritable bowel syndrome. <b>2014</b> , 20, 8821-36	14
299	Portal inflow preservation during portal diversion in small-for-size syndrome. <b>2014</b> , 20, 1021-9	13
298	Should temporary extracorporeal continuous portal diversion replace meso/porta-caval shunts in "small-for-size" syndrome in porcine hepatectomy?. <b>2015</b> , 21, 888-96	9
297	Microbiome analysis of contact lens care solutions and tear fluids of contact lens wearers: Possible involvement of streptococcal antigens in allergic symptoms related to contact lens wear. <b>2020</b> , 46, 1367-1376	3
296	Microbiome: Paediatricians' perspective. <b>2015</b> , 142, 515-24	27
295	Impact of a Recombinant Biocontrol Bacterium, <i>Pseudomonas fluorescens</i> pc78, on Microbial Community in Tomato Rhizosphere. <b>2016</b> , 32, 136-44	13

294	Opportunistic Cyanobacteria in benthic microbial mats of a tropical lagoon, Tikehau Atoll, Tuamotu Archipelago: minor in natural populations, major in cultures.. <b>2012</b> , 12, 127-140	19
293	Difference without distinction? Gaps in cyanobacterial systematics; when more is just too much. <b>2018</b> , 18, 130-136	7
292	Identification of <i>Lactobacillus delbrueckii</i> and <i>Streptococcus thermophilus</i> Strains Present in Artisanal Raw Cow Milk Cheese Using Real-time PCR and Classic Plate Count Methods. <b>2017</b> , 66, 491-499	2
291	In vitro Interaction between Fumonisin B1 and the Intestinal Microflora of Pigs. <b>2017</b> , 66, 245-250	6
290	High-Throughput Sequencing Analysis of Endophytic Bacteria Diversity in Fruits of White and Red Pitayas from Three Different Origins. <b>2018</b> , 67, 27-35	10
289	Molecular Phylogenetic Diversity and Spatial Distribution of Bacterial Communities in Cooling Stage during Swine Manure Composting. <b>2015</b> , 28, 888-95	8
288	Strong inter-population cooperation leads to partner intermixing in microbial communities. <b>2013</b> , 2, e00230	127
287	QSpec: online control and data analysis system for single-cell Raman spectroscopy. <b>2014</b> , 2, e436	6
286	Marine cyanolichens from different littoral zones are associated with distinct bacterial communities. <b>2018</b> , 6, e5208	12
285	<i>Trichorickettsia mobilis</i> ", a bacterium, can be transiently transferred from the unicellular eukaryote to the planarian. <b>2020</b> , 8, e8977	8
284	Analyzing bacterial community in pit mud of Yibin Baijiu in China using high throughput sequencing. <b>2020</b> , 8, e9122	7
283	Monitoring co-cultures of <i>Clostridium carboxidivorans</i> and <i>Clostridium kluveri</i> by fluorescence in situ hybridization with specific 23S rRNA oligonucleotide probes. <b>2021</b> , 44, 126271	3
282	Monitoring antibiotic resistance genes in wastewater environments: The challenges of filling a gap in the One-Health cycle. <b>2021</b> , 424, 127407	11
281	Isolation and identification of marine microbial products. <b>2021</b> , 19, 162	2
280	Genomics and phylogeny of the proposed phylum 'Candidatus Poribacteria' associated with the excavating sponge <i>Thoosa mismalolli</i> . <b>2021</b> , 114, 2163-2174	
279	Molecular Phylogenetic Position of <i>Microjoenia</i> (Parabasalia: Spirotrichonymphea) from <i>Reticulitermes</i> and <i>Hodotermopsis</i> Termite Hosts. <b>2021</b> , 172, 125836	0
278	Novel Enzymes From the Red Sea Brine Pools: Current State and Potential. <b>2021</b> , 12, 732856	0
277	Specific detection and quantification of the marine flavobacterial genus <i>Zobellia</i> on macroalgae using novel qPCR and CARD-FISH assays. <b>2021</b> , 44, 126269	0

- 276 Molecular Approaches for the Investigation of the Diversity and Localization of Diazotrophic Bacteria. **2000**, 411-412
- 275 The Role of Biotechnology in BTW Agent Detection. **2001**, 93-103
- 274 Halophilic and Osmophilic Microorganisms. **2001**,
- 273 Screening of Combinatorial Biology Libraries for Natural Products Discovery. **2001**,
- 272 Bacterial Diversity Studies Using the 16S rRNA Gene Provide a Powerful Research-Based Curriculum for Molecular Biology Laboratory. **2002**, 3, 18-25 10
- 271 Identification of Microbial Isolates, Methods for.
- 270 Rhizosphere, Bacterial Phytostimulators in.
- 269 Wastewater: Growth Kinetics of Microorganisms.
- 268 Igneous Rock Aquifers Microbial Communities.
- 267 RAPID DETECTION OF NON-ENTEROBACTERIACEAE DIRECTLY FROM POSITIVE BLOOD CULTURE USING FLUORESCENT IN SITU HYBRIDIZATION. **2007**, 25, 391-394 1
- 266 Section 4 Update - BAC library construction from marine microbial assemblages. **2008**, 1863-1879
- 265 DNA Microarray Analysis of Temporal and Spatial Variation of Bacterial Communities in Japanese Rivers. **2008**, 44, 109-120
- 264 Overview of Defensive Mutualism in the Marine Environment. **2009**, 39-60
- 263 AVALIAÇÃO DO IMPACTO DO LODO DE ESGOTO NA MICROBIOTA DO SOLO UTILIZANDO O GENE 16S rRNA. **2009**, 76, 443-448 3
- 262 Current Molecular Technologies for Assessing the Amount of Microbial Pathogens in Oral Plaque Biofilms. **2010**, 64-82
- 261 Metagenome Analysis. **2010**, 33-71 1
- 260 New Developments and Applications of Microarrays for Microbial Community Analysis in Natural and Impacted Ecosystems. **2011**, 87-95
- 259 Die genetische und funktionelle Diversität von Bädern. **2011**, 81-121



258 Design of Biofilm Using Fine Particle Technology. **2013**, 21, 68-73

257 Recalcitrance. **2013**, 275-297

256 Assessment of the Changes in the Microbial Community in Alkaline Soils using Biolog Ecoplate and DGGE. **2013**, 28, 275-281 2

255 17. Halophilic and Osmophilic Microorganisms. **2015**,

254 Manipulation and assessment of gut microbiome for metabolic studies. **2014**, 1194, 449-69 1

253 In Silico Hybridization System for Mapping Functional Genes of Soil Microorganism Using Next Generation Sequencing. **2014**, 337-344

252 Environmental Control of Gene Expression in Bacteria. **1998**, 131-145

251 Cross Induction of 4-Nitrobenzoate and 4-Aminobenzoate Degradation by Burkholderia Cepacia Strain PB4. **1999**, 71-81 1

250 Composition of Bacterial Communities Isolated from Core Samples Taken from Petroleum Deposits. **2014**, 1,

249 RESEARCH ON THE CULTIVATION OF NITRIFYING BACTERIA AND POSSIBILITY OF THE BIOMASS STORAGE. **2016**, 9, 113-118

248 East Kolkata Wetlands and The Regulation of Water Quality. **2016**, 1-7

247 Quantification of Sulfate-Reducing Microorganisms by Quantitative PCR. **2017**, 213-227

246 Analysis of the microbial diversity present on the wall paintings of Castle of Herberstein by molecular techniques. **2017**, 35-45

245 Acidobacteria in Paleolithic painting caves. **2017**, 15-21

244 Molecular characterization of lead-resistant isolates from Certosa of Pavia red stains. **2017**, 109-113

243 The Role of Natural Products in Structuring Microbial Communities of Marine Algae. **2018**, 221-235

242 Microbial Genome Diversity and Microbial Genome Sequencing. **2019**, 175-201

241 Metagenomics Approaches to Study Microbes in the E-waste Polluted Environment. **2019**, 159-170

- 240 The effect of fumonisins producing *Fusarium verticillioides* on the microbiota in pig caecum. **2019**, 88, 65-71 ○
- 239 Role of Microbial Genomics in Plant Health Protection and Soil Health Maintenance. **2019**, 163-179
- 238 Insights into the Unidentified Microbiome: Current Approaches and Implications. **2019**, 93-130
- 237 Bioaugmentation of Chlorinated Ethene-Contaminated Groundwater. **2019**, 158-180
- 236 RNA and Biocorrosion Collection, Transport, and Extraction Standardization of Samples from the Oil Sector. **2019**, 73-84
- 235 Relevance of Microbial Diversity in Implicating Soil Restoration and Health Management. **2020**, 161-202
- 234 The influence of environmental factors on microbial community composition in a mountain river. **2020**, 69, 75-88
- 233 Exploration of coliform diversity in drinking water resources by culture-independent approaches. **2020**, 10, 580-588 1
- 232 Community Composition and Carbon Utilization Profiles of Yodo River Microbes in Brackish and Freshwater Sediments. **2020**, 56, 17-26
- 231 Host trait prediction from human microbiome data for Colorectal Cancer. **2020**, 1
- 230 The indoor environment - a potential source for intact human-associated anaerobes.
- 229 Fungi consortia in situ biodegradation of xenobiotic, military shooting range, Kachia, Kaduna, Nigeria. **2020**, 7, 246-274
- 228 Review on Microbial Analysis Tools in POME treatment. **2020**, 220-240
- 227 The Microbial Communities of the East Mediterranean Sea Mud Volcanoes and Pockmarks. **2020**, 143-148
- 226 Microbial Indicator of Soil Health: Conventional to Modern Approaches. **2020**, 213-233 ○
- 225 Clover Species Specific Influence on Microbial Abundance and Associated Enzyme Activities in Rhizosphere and Non-Rhizosphere Soils. **2021**, 11, 2214 ○
- 224 Plankton biodiversity and species co-occurrence based on environmental DNA in a multiple marker study. 5, ○
- 223 *Microbiologie des Darmes*. **2006**, 45-55

222	Enrichment of Microbes Potentially Degrading Polyethylene Using a Microcosm Approach. <b>2020</b> , 6, 84-101		1
221	Ocular Surface Microbiome in Health and Disease. <b>2020</b> , 9, 505-511		8
220	Bacterial community analysis of the water surface layer from a rice-planted and an unplanted flooded field. <b>2010</b> , 41, 411-9		1
219	The Stability of rRNA in Heat-killed <i>Salmonella enterica</i> Cells and Its Detection by Fluorescent In Situ Hybridisation (FISH). <b>2010</b> , 21, 47-53		7
218	The diagnostic value of neutrophil gelatinase-associated lipocalin and hepcidin in bacteria translocation of liver cirrhosis. <b>2015</b> , 8, 16434-44		4
217	Enterotoxin gene profiles among <i>Staphylococcus aureus</i> isolated from raw milk. <b>2014</b> , 15, 409-12		9
216	The Hoops, Hopes, and Hypes of Human Microbiome Research. <b>2016</b> , 89, 363-373		23
215	[Pathogen analysis in patients with diabetic foot osteomyelitis using 16S rRNA high-throughput sequencing]. <b>2017</b> , 37, 1448-1455		
214	A more accurate definition of water characteristics in stone materials for an improved understanding and effective protection of cultural heritage from biodeterioration. <i>International Biodeterioration and Biodegradation</i> , <b>2022</b> , 166, 105338	4.8	4
213	Isolation methods for evaluation of extremophilic microbial diversity from Antarctica region. <b>2022</b> , 267-289		0
212	Bacterial diversity from Garampani warm spring, Assam. <b>2022</b> , 177-205		
211	Advances in microbiological quality control. <b>2022</b> , 207-241		
210	Antimicrobial Effects of Extract on the In Situ Initial Oral Biofilm. <b>2021</b> , 13,		2
209	Metagenomic Analysis for Evaluating Change in Bacterial Diversity in TPH-Contaminated Soil after Soil Remediation.. <b>2021</b> , 9,		1
208	The compositional turnover of grapevine-associated plant pathogenic fungal communities are greater among intraindividual microhabitats and terroirs than among healthy and Esca-diseased plants. <b>2021</b> ,		2
207	The search for aliens within us: a review of evidence and theory regarding the foetal microbiome. <b>2021</b> , 1-13		2
206	Effect of Organic Loading Rate on the Microbial Community in Anaerobic Chambered Reactor Processing Ethanol Distillery Vinasse. <b>2021</b> , 232, 1		0
205	Deciphering bacteria associated with a pre-parasitic stage of the root-knot nematode <i>Meloidogyne hapla</i> in nemato-suppressive and nemato-conducive soils. <b>2022</b> , 172, 104344		1

- 204 Metagenomic Approaches for Insect Symbionts. **2021**, 271-313 0
- 203 Yeast Research in India: A Perspective on Taxonomy and Applications. **2021**, 591-626
- 202 Application of ammonium sulfate affects greenhouse gases and microbial diversity of an oil palm plantation on tropical peat. *Archives of Agronomy and Soil Science*, 1-14 2
- 201 Effect of Copper Ion Sterilization on Bacterial Community in a Freshwater Recirculating Aquaculture System.. **2022**, 79, 58
- 200 The evolution of knowledge on seafood spoilage microbiota from the 20th to the 21st century: Have we finished or just begun?. **2022**, 120, 236-247 5
- 199 Mechanism of salicylic acid in promoting the rhizosphere benzo[a]pyrene biodegradation as revealed by DNA-stable isotope probing. **2021**, 152202 0
- 198 *Candida Tropicalis* Prompted Effectively Simultaneous Removal of Carbon, Nitrogen and Phosphorus in Activated Sludge Reactor: Microbial Community Succession and Functional Characteristics.
- 197 Gut Microbiome Research: A New Avenue for Aquaculture Disease Management. **2021**, 189-207
- 196 Integration of Droplet Microfluidic Tools for Single-cell Functional Metagenomics: An Engineering Head Start.. **2021**, 0
- 195 Identification of Microorganism Colony Odor Signature using InceptionTime. **2021**,
- 194 Fungal contamination assessment in healthcare environmentsA bibliographic review. **2022**, 181-229
- 193 Molecular Tools for Monitoring and Validating Bioremediation. **2022**, 349-364 0
- 192 Assessing Viability and Stress Tolerance of Probiotics-A Review.. **2021**, 12, 818468 0
- 191 Concepts, Tools, and Methodologic Considerations for Lung Microbiome Research. **2022**, 21-33
- 190 Microbial Diversity of Reconstituted, Degraded, and Agricultural Soils Assessed by 16S rDNA Multi-Amplicon Sequencing. **2022**, 9, 0
- 189 Vaginal states: detection of conversion processes in women using contraception and characterization of vaginal *Lactobacillus* species.. **2022**, 0
- 188 Production, partial purification and efficacy of keratinase from *Bacillus halotolerans* L2EN1 isolated from the poultry farm of Himachal Pradesh as a potential laundry additive. 1-21 1
- 187 Identifying the Active Phenanthrene Degraders and Characterizing Their Metabolic Activities at the Single-Cell Level by the Combination of Magnetic-Nanoparticle-Mediated Isolation, Stable-Isotope Probing, and Raman-Activated Cell Sorting (MMI-SIP-RACS).. **2022**, 0

186	Tailored Bioactive Compost from Agri-Waste Improves the Growth and Yield of Chili Pepper and Tomato.. <b>2021</b> , 9, 787764		1
185	Next-Generation Amplicon Sequencing: A Cost-Effective Method for Exploring Microbial Biodiversity. <b>2022</b> , 203-236		0
184	Beyond Soil-Dwelling Actinobacteria: Fantastic Antibiotics and Where to Find Them.. <b>2022</b> , 11,		0
183	Assessment of Hydrocarbon Degradation Potential in Microbial Communities in Arctic Sea Ice.. <i>Microorganisms</i> , <b>2022</b> , 10,	4.9	1
182	Construction of Bacterial Consortium for Cornstalk Degradation in Soil.		
181	Fluorescence In Situ Hybridization of Uncultured Zoosporic Fungi. <b>2022</b> , 87-94		
180	Microbial diversity of garden snail mucus.. <b>2022</b> , 11, e1263		1
179	A metanalysis approach to defining the culturable core of plant endophytic bacterial communities.. <b>2022</b> , aem0253721		1
178	Microbial Occupational Exposure Assessments in SawmillsA Review. <b>2022</b> , 13, 266		1
177	<i>Candida tropicalis</i> prompted effectively simultaneous removal of carbon, nitrogen and phosphorus in activated sludge reactor: Microbial community succession and functional characteristics.. <b>2022</b> , 348, 126820		0
176	Diversity and Classification of Rare Actinomycetes. <b>2021</b> , 117-142		
175	Towards a Global Perspective of the Marine Microbiome. <b>2022</b> , 357-394		
174	Converting tropical rainforest to native rubber plantations alters soil bacterial and fungal communities. <b>2022</b> , 2, 1-6		
173	Design and Experimental Evaluation of a New RNA-FISH Probe to Detect and Identify <i>Paenibacillus</i> sp.. <b>2022</b> , 12, 2348		
172	Purposely Development of the Adaptive Potential of Activated Sludge from Municipal Wastewater Treatment Plant Focused on the Treatment of Landfill Leachate. <b>2022</b> , 10, 460		0
171	Characteristics Changes on Applications of Antibiotics and Current Approaches to Enhance Productivity with Soil Microbiome. <b>2022</b> , 16, 89-109		
170	Community Structure and Functional Annotations of the Skin Microbiome in Healthy and Diseased Catfish, .. <b>2022</b> , 13, 856014		0
169	Seasonal variability in environmental parameters influence bacterial communities in mangrove sediments along an estuarine gradient. <b>2022</b> , 107791		0

168	Exploring the Distinct Distribution of Archaeal Communities in Sites Contaminated with Explosives.. <b>2022</b> , 12,	0
167	Application of Nanodiamonds in Modelled Bioremediation of Phenol Pollution in River Sediments. <b>2022</b> , 10, 602	1
166	Investigation of bacterial diversity using 16S rRNA sequencing and prediction of its functionalities in Moroccan phosphate mine ecosystem.. <b>2022</b> , 12, 3741	1
165	Composition and functioning of the soil microbiome in the highest altitudes of the Italian Alps and potential effects of climate change.. <b>2022</b> ,	1
164	Development of a device for cultivation and isolation of microbes using a specialized cellulose film.. <b>2022</b> , 195, 106450	0
163	Active Microbial Airborne Dispersal and Biomorphs as Confounding Factors for Life Detection in the Cell-Degrading Brines of the Polyextreme Dallol Geothermal Field.. <b>2022</b> , e0030722	1
162	Soil compartments (bulk soil, litter, root and rhizosphere) as main drivers of soil protistan communities distribution in forests with different nitrogen deposition. <b>2022</b> , 168, 108628	0
161	Taxonomic diversity and predictive metabolic functions of a heavy metal tolerant multiple azo dye degrading bacterial consortium from textile effluents. <i>International Biodeterioration and Biodegradation</i> , <b>2022</b> , 171, 105421	4.8 0
160	Identification of with Fluorescence In-Situ Hybridization (FISH) in Patient Samples-A Proof-of-Principle.. <b>2021</b> , 8,	
159	Omic Technologies and Cold Adaptations. <b>2022</b> , 253-284	
158	Microbial degradation and community structure analysis of hydroxyl-terminated polybutadiene (HTPB).. <b>2021</b> , 11, 180	
157	Potential of Flow Cytometric Approaches for Rapid Microbial Detection and Characterization in the Food Industry-A Review.. <b>2021</b> , 10,	2
156	Determinism of microbial community assembly by drastic environmental change. <b>2021</b> , 16, e0260591	0
155	Industrial Biotechnology Based on Enzymes From Extreme Environments.. <b>2022</b> , 10, 870083	2
154	Bacterioplankton Community Profiling of the Surface Waters of Kuwait. <b>2022</b> , 9,	0
153	Multidrug resistance from a one health perspective in Ethiopia: A systematic review and meta-analysis of literature (2015-2020). <b>2022</b> , 100390	0
152	Data_Sheet_1.pdf. <b>2018</b> ,	
151	Image_1.PDF. <b>2018</b> ,	

150 Table\_1.DOCX. **2018**,

149 Table\_1.docx. **2018**,

148 Data\_Sheet\_1.docx. **2019**,

147 Table\_1.doc. **2018**,

146 Table\_2.doc. **2018**,

145 Table\_1.doc. **2018**,

144 Data\_Sheet\_1.zip. **2019**,

143 Data\_Sheet\_2.docx. **2019**,

142 Data\_Sheet\_3.zip. **2019**,

141 Image\_1.TIF. **2018**,

140 Image\_2.TIF. **2018**,

139 Image\_3.TIF. **2018**,

138 Image\_4.TIF. **2018**,

137 Image\_5.TIF. **2018**,

136 Table\_1.docx. **2018**,

135 Data\_Sheet\_1.PDF. **2019**,

134 Data\_Sheet\_2.PDF. **2019**,

133 Table\_1.XLSX. **2019**,

132 Table\_2.DOCX. **2019**,

131 Table\_3.DOCX. **2019**,

130 Data\_Sheet\_1.pdf. **2019**,

129 Two-Dimensional Cell Separation: a High-Throughput Approach to Enhance the Culturability of Bacterial Cells from Environmental Samples.. **2022**, e0000722 1

128 Deciphering soil microbiota using metagenomic approach for sustainable agriculture: an overview. **2022**, 439-454

127 Composition and Diversity of Soil Microbial Community Associated With Land Use Types in the Agro-Pastoral Area in the Upper Yellow River Basin.. **2022**, 13, 819661 0

126 Impact of oxytetracycline exposure on the digestive system microbiota of *Daphnia magna*.. **2022**, 17, e0265944 0

125 The Role of Extracellular Polymeric Substances in the Toxicity Response of Anaerobic Granule Sludge to Different Metal Oxide Nanoparticles.. **2022**, 19, 0

124 Diversity Patterns of Protists Are Highly Affected by Methods Disentangling Biological Variants: A Case Study in Oligotrich (s.l.) Ciliates. *Microorganisms*, **2022**, 10, 913 4-9 0

123 Analysis of bacterial and fungal communities in fermented fish (pla-ra) from Northeast Thailand.. *Archives of Microbiology*, **2022**, 204, 302 3 0

122 Can Stomach Content and Microbiomes of Tuna Provide Near Real-Time Detection of Ecosystem Composition in the Pacific Ocean?. **2022**, 9,

121 Identification and phylogenetic characterization based on DNA sequences from RNA ribosomal genes of thermophilic microorganisms in a high elevation Andean tropical geothermal spring. **2022**, 7, 1-8

120 Designing Synergistic Biostimulants Formulation Containing Autochthonous Phosphate-Solubilizing Bacteria for Sustainable Wheat Production.. **2022**, 13, 889073 0

119 Specific utilization of biopolymers of plant and fungal origin reveals the existence of substrate-specific guilds for bacteria in temperate forest soils. **2022**, 108696 2

118 Application of Integrated Fixed-Film Activated Sludge in a Conventional Wastewater Treatment Plant. **2022**, 19, 5985 0

117 Comparative Analysis of the Microbial Community Structures Between Healthy and Anthracnose-Infected Strawberry Rhizosphere Soils Using Illumina Sequencing Technology in Yunnan Province, Southwest of China. **2022**, 13, 0

116 Seasonal dynamics of airborne culturable fungi and its year-round diversity monitoring in Dahuting Han Dynasty Tomb of China.. **2022**, 155990 0

115 Inter-cluster competition and resource partitioning may govern the ecology of *Frankia*.. *Archives of Microbiology*, **2022**, 204, 326 3



114	Omics: A revolutionary tool to study ammonia-oxidizing bacteria and their application in bioremediation. <b>2022</b> , 61-81		
113	Synchronous bio-degradation and bio-electricity generation in a Microbial Fuel Cell with aged and fresh leachate from the identical subtropical area. <b>2022</b> , 316, 115017		
112	Molecular Analysis of Soil Bacterial Community Structures for Environmental Risk Assessment with Varieties of Genetically Modified Soybean and Hot Pepper. <b>2022</b> , 10, 1037		0
111	Fipronil Microbial Degradation: An Overview From Bioremediation to Metabolic Pathways. <b>2022</b> , 81-107		
110	Life detection in space: Current methods and future technologies. <b>2022</b> , 221-253		
109	The role of Nucleic Acid Mimics (NAMs) on FISH-based techniques and applications for microbial detection. <b>2022</b> , 127086		0
108	Mining the diversity and functional profile of bacterial symbionts from the larvae of <i>Chironomus circumdatus</i> (bloodworms).		1
107	Culturable Bacterial Diversity from the Basaltic Subsurface of the Young Volcanic Island of Surtsey, Iceland. <i>Microorganisms</i> , <b>2022</b> , 10, 1177		4.9
106	Asymmetry Evaluation of Sea Cucumber ( <i>Apostichopus japonicus</i> ) Gut and Its Surrounding Environment in the Bacterial Community. <b>2022</b> , 14, 1199		
105	Microbial control. <b>2022</b> , 709-773		
104	Deciphering the Effectiveness of Humic Substances and Biochar Modified Digestates on Soil Quality and Plant Biomass Accumulation. <b>2022</b> , 12, 1587		1
103	Factors Controlling Dead Wood Decomposition in an Old-Growth Temperate Forest in Central Europe. <b>2022</b> , 8, 673		
102	Comparative study of methods for detecting extraterrestrial life in the exploration mission of Mars and the solar system. <b>2022</b> ,		1
101	The Prokaryotic Complex of Modern and Buried Soils on the Kamchatka Peninsula. <b>2022</b> , 13, 1066		0
100	Soil substrate culturing approaches recover diverse members of Actinomycetota from desert soils of Herring Island, East Antarctica. <b>2022</b> , 26,		0
99	Metagenomic insights into the antibiotic resistome in freshwater and seawater from an Antarctic ice-free area. <i>Environmental Pollution</i> , <b>2022</b> , 119738	9.3	0
98	Cultivable microbial diversity in speleothems using MALDI-TOF spectrometry and DNA sequencing from Krem Soitan, Krem Lawbah, Krem Mawpun, Khasi Hills, Meghalaya, India. <i>Archives of Microbiology</i> , <b>2022</b> , 204,	3	
97	Current Techniques to Study Beneficial Plant-Microbe Interactions. <i>Microorganisms</i> , <b>2022</b> , 10, 1380	4.9	2

96	The environmental factors used in correlation analysis with microbial community of environmental and cultural heritage samples. <i>International Biodeterioration and Biodegradation</i> , <b>2022</b> , 173, 105460	4.8	○
95	Positive effects of maize incorporation into the traditional tobacco cropping systems on soil nutrients, microbial biomass, enzyme activities, and bacterial compositions. <i>Archives of Agronomy and Soil Science</i> , 1-13	2	
94	Spatio-Temporal Variation in the Phyllospheric Microbial Biodiversity of <i>Alternaria Alternata</i> -Infected Tobacco Foliage. 13,		○
93	Glaciers as microbial habitats: current knowledge and implication. <b>2022</b> , 60, 767-779		○
92	Horizontal Gene Transfer of an IncP1 Plasmid to Soil Bacterial Community Introduced by <i>Escherichia coli</i> through Manure Amendment in Soil Microcosms. <b>2022</b> , 56, 11398-11408		1
91	Lichen as Multipartner Symbiotic Relationships. <b>2022</b> , 2, 1421-1431		○
90	Effects of Ciprofloxacin Alone or in Mixture with Sulfamethoxazole on the Efficiency of Anaerobic Digestion and Its Microbial Community. <b>2022</b> , 11, 1111		○
89	Evaluation of advanced platelet-rich fibrin (PRF) as a bio-carrier for ampicillin/sulbactam.		○
88	Production of polyglutamic acid-like mucilage protein by <i>Peribacillus simplex</i> strain 8h.		
87	A novel, magnetic bead-based extraction method for the isolation of antimicrobial resistance genes with a case study in river water in Malawi.		
86	Cultivating marine bacteria under laboratory conditions: Overcoming the "unculturable" dogma. 10,		1
85	Extraterrestrial Life Signature Detection Microscopy: Search and Analysis of Cells and Organics on Mars and Other Solar System Bodies. <b>2022</b> , 218,		
84	Microbial utilization of simple and complex carbon compounds in a temperate forest soil. <b>2022</b> , 173, 108786		○
83	The effect of bacterial growth strategies on plasmid transfer and naphthalene degradation for bioremediation. <b>2022</b> , 28, 102910		1
82	Informing marine shipping insurance premiums in the Arctic using marine microbial genomics. <b>2023</b> , 125-138		○
81	Plant Growth-Promoting Rhizobacteria for Sustainable Agriculture. <b>2022</b> , 1-27		○
80	Isolation and initial characterization of microorganisms from a shallow marine hydrothermal system, Vulcano (Italy). <b>2022</b> , 357, 04001		○
79	Microbial communities of halite deposits and other hypersaline environments. <b>2022</b> ,		○

- 78 Identification of changes in the microflora composition of Japanese horse mackerel (*Trachurus japonicus*) during storage to identify specific spoilage organisms. **2022**, 5, 1216-1224 ○
- 77 Cultivation of previously uncultured sponge-associated bacteria using advanced cultivation techniques: A perspective on possible key mechanisms. 9, ○
- 76 Defining the baseline of pulmonary microbiota in healthy populations and influencing factors. 11, 38-48 ○
- 75 Probiotics in Processed Dairy Products and their Role in Gut Microbiota Health. ○
- 74 Spectral imaging and nucleic acid mimics fluorescence in situ hybridization (SI-NAM-FISH) for multiplex detection of clinical pathogens. 13, ○
- 73 Diversity of bacterial community in Jerusalem artichoke (*Helianthus tuberosus* L.) during storage is associated with the genotype and carbohydrates. 13, ○
- 72 Efficient carbon and nitrogen transfer from marine diatom aggregates to colonizing bacterial groups. **2022**, 12, ○
- 71 Colitis caused by *Entamoeba histolytica* identified by real-time-PCR and fluorescence in situ hybridization from formalin-fixed, paraffin-embedded tissue. **2022**, 12, 84-91 ○
- 70 Effect of Mineral Carriers on Biofilm Formation and Nitrogen Removal Activity by an Indigenous Anammox Community from Cold Groundwater Ecosystem Alone and Bioaugmented with Biomass from a Warm Anammox Reactor. **2022**, 11, 1421 1
- 69 An Archaic Approach to a Modern Issue: Endophytic Archaea for Sustainable Agriculture. **2022**, 79, ○
- 68 Insights on Microbial Communities Inhabiting Non-Volcanic Hot Springs. **2022**, 23, 12241 1
- 67 Marine Bioprospecting, Biocatalysis and Process Development. **2022**, 10, 1965 1
- 66 Studies on Geomicrobiology in some Indian Caves. **2022**, 98, 1380-1384 ○
- 65 Single-cell Raman-activated sorting and cultivation (scRACS-Culture) for assessing and mining in situ phosphate-solubilizing microbes from nature. **2022**, 2, ○
- 64 Effect of biodegradable poly-3-hydroxybutyrate amendment on the soil biochemical properties and fertility under varying sand loads. **2022**, 9, ○
- 63 Functional Metagenomics as a Tool to Tap into Natural Diversity of Valuable Biotechnological Compounds. **2023**, 23-49 ○
- 62 Airborne Bacteria in Gliwice – The Industrialized City in Poland. **2022**, 13, 1721 ○
- 61 Methods employed to study bacterial association in fish. **2023**, 51-64 ○

- 60 Role of gene sequencing for the diagnosis, tracking and prevention of ocular infections. **2022**, 24, 36 ○
- 59 Compendium of analytical methods for sampling, characterization and quantification of bioaerosols. **2022**, ○
- 58 A survey of soil bacterial diversity across a northeast Louisiana federal wildlife refuge. **2021**, 95, 104-120 ○
- 57 Diversity of endophytic fungi isolated from different plant parts of *Acacia mangium*, and antagonistic activity against *Ceratocystis fimbriata*, a causal agent of *Ceratocystis* wilt disease of *A. mangium* in Malaysia. 13, ○
- 56 Source water microorganism assessment in three cities in China: A comparative study. 10, ○
- 55 Isolation and Characterization of Basidiomycetous Yeasts Capable of Producing Phytase under Oligotrophic Conditions. **2022**, 10, 2182 ○
- 54 Biotechnology methods for succession of bacterial communities in polychlorinated biphenyls (PCBs) contaminated soils and isolation novel PCBs-degrading bacteria. **2022**, 12, ○
- 53 Characterizing the Proliferation Patterns of Representative Microsporidian Species Enlightens Future Studies of Infection Mechanisms. **2022**, 11, 1352 ○
- 52 Deciphering the role of endophytic microbiome in postharvest diseases management of fruits: Opportunity areas in commercial up-scale production. 13, ○
- 51 Isolation, identification, and chemical composition analysis of nine microalgal and cyanobacterial species isolated in lagoons of Western Greece. **2023**, 69, 102935 2
- 50 Microbial Production of Biogas from Digested Sludge.: Contribution to the Sustainable Society through Microbial Technology. **2021**, 59, 605-611 ○
- 49 ??????????????????. **2022**, ○
- 48 Red Sea Atlas of Coral-Associated Bacteria Highlights Common Microbiome Members and Their Distribution across Environmental Gradients A Systematic Review. **2022**, 10, 2340 ○
- 47 Detection of Endophytes by Visualization Methods. **2023**, 43-49 ○
- 46 Treatment of peanut allergy and colitis in mice via the intestinal release of butyrate from polymeric micelles. 1
- 45 Metagenomic Analysis of Garden Soil-Derived Microbial Consortia and Unveiling Their Metabolic Potential in Mitigating Toxic Hexavalent Chromium. **2022**, 12, 2094 1
- 44 Investigating the Bacterial and Fungal Communities Involved in Dead Biomass Degradation in Forest Soils. **2023**, 157-168 ○
- 43 Assessment of diversity of archaeal communities in Algerian chott. **2023**, 27, ○

- 42 Here, there and everywhere: Ecology and biology of the Dependientiae phylum. ○
- 41 Microbial-Based Products to Control Soil-Borne Pathogens: Methods to Improve Efficacy and to Assess Impacts on Microbiome. **2023**, 11, 224 ○
- 40 Coastal Sediments of La Paz Bay BCS: Bacteria Reserve with Biotechnological Potential. **2023**, 221-246 ○
- 39 Automatic classification of *Candida* species using Raman spectroscopy and machine learning. **2023**, 290, 122270 1
- 38 Isn't It Time for Establishing Mitochondrial Nomenclature Breaking Mitochondrial Paradigm?. **2022**, 87, 1487-1497 ○
- 37 Structure and Function Analysis of Cultivated *Meconopsis integrifolia* Soil Microbial Community Based on High-Throughput Sequencing and Culturability. **2023**, 12, 160 ○
- 36 Phytoremediation of PAH compounds by microbial communities in sodic soil. 1-9 ○
- 35 Thermophilic bacteria and their thermozyms in composting processes: a review. **2023**, 10, ○
- 34 Culture-independent and culture-dependent approaches in symbiont analysis. **2023**, 723-742 ○
- 33 In situ techniques to study noncultivable microbial symbionts. **2023**, 765-785 ○
- 32 Marine biofilms: Bacterial diversity and dynamics. **2023**, 3-21 ○
- 31 Microbial diversity and root exudates as an important facet in the rhizosphere ecosystem. **2023**, 119-132 ○
- 30 Effect of Digestate Modified with Amendments on Soil Health and Plant Biomass under Varying Experimental Durations. **2023**, 16, 1027 ○
- 29 The structure and diversity of microbial communities in *Paederus fuscipes* (Coleoptera: Staphylinidae): from ecological paradigm to pathobiome. **2023**, 11, ○
- 28 Characterization and antibacterial activity of endophytic fungi isolated from *Avicennia marina*. ○
- 27 Mitigation of water scarcity with sustained growth of Rice by plant growth promoting bacteria. 14, ○
- 26 Uncultured Members of the Oral Microbiome. **2016**, 44, 447-456 ○
- 25 Review of the Main Taxonomic Groups of Microorganisms in Zonal Soils according to Metagenomic Analysis and Fluorescent In Situ Hybridization. **2022**, 12, S140-S150 ○

- 24 Uncovering the diverse hosts of tetracycline resistance gene tet(X4) in anaerobic digestion systems treating swine manure by epicPCR. **2023**, 19, 100174 ○
- 23 Hyperthermophiles: Diversity, Adaptation and Applications. **2023**, 24-63 ○
- 22 Applying Metagenomic Analysis Using Nanopore Sequencer (MinION) for Precision Medicine in Bacterial Keratoconjunctivitis: Comprehensive Validation of Molecular Biological and Conventional Examinations. **2023**, 24, 2611 ○
- 21 Effects of plants-associated microbiota on cultivation and quality of Chinese herbal medicines. **2023**, ○
- 20 Electric-Inductive Microbial Interactions in a Thermophilic Anaerobic Digester Revealed by High-Throughput Sequencing of Micron-Scale Single Floccs. **2023**, 57, 4367-4378 ○
- 19 Differentiation of the *Flavescens dor* phytobacteria genetic clusters by multiplex real-time PCR assay targeting the map gene. ○
- 18 Genome-centric metagenomic insights into the role of Chloroflexi in anammox, activated sludge and methanogenic reactors. **2023**, 23, ○
- 17 Assessment of the Airborne Microbes in the Dust of the Arabian Gulf Region. **2023**, 187-213 ○
- 16 Preservation status and microbial community of waterlogged archaeological woods over 7800 years old at the Jingtoushan Site, China. **2023**, 57, 537-556 ○
- 15 Three decades of organic manure and chemical fertilizers co-application enhanced rice productivity through increasing the diversity and key network module of soil bacterial community. **2023**, 23, 2175-2188 ○
- 14 Microbial Communities: Structural and Functional Analyses with Molecular Biological Approach. **2023**, 421-459 ○
- 13 Microbial Communities: Structural and Functional Analyses with Classical Approach. **2023**, 397-419 ○
- 12 Sample Collection, DNA Extraction, and Library Construction Protocols of the Human Microbiome Studies in the International Human Phenome Project. ○
- 11 An improved method for corn stalk in-situ degrading synthetic bacterial consortium construction in a cold region of China. **2023**, 102648 ○
- 10 Soil Health Management and Microorganisms: Recent Development. **2023**, 437-493 ○
- 9 Mining metagenomes reveals diverse antibiotic biosynthetic genes in uncultured microbial communities. ○
- 8 The Landscape of Global Ocean Microbiome: From Bacterioplankton to Biofilms. **2023**, 24, 6491 ○
- 7 Exploration of Compost Soil for the Production of Thermo-Stable Bacillus Protease to Synthesize Bioactive Compounds through Soy Protein Hydrolysis. **2023**, 13, 1019 ○

- 6 New carbohydrate binding domains identified by phage display based functional metagenomic screens of human gut microbiota. **2023**, 6,
- 5 Culturing the desert microbiota. 14,
- 4 Exploring halophilic environments as a source of new antibiotics. 1-30
- 3 Bioaugmentation Strategies for Enhancing Methane Production from Shrimp Processing Waste through Anaerobic Digestion. **2023**, 9, 401
- 2 Biogenic Hydrogen Sulfide Production Using Elemental Sulfur and Low-Cost Organic Substrates to Remove Metal Ions from Mining Effluents. **2023**, 3, 241-260
- 1 Biosensors, mechatronics, & microfluidics for early detection & monitoring of microbial corrosion: A comprehensive critical review. **2023**, 18, 100402