

# Richard T Marconi

## List of Publications by Year in descending order

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102  
papers

3,161  
citations

126858  
33  
h-index

197736  
49  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1388  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human and Veterinary Vaccines for Lyme Disease. <i>Current Issues in Molecular Biology</i> , 2022, 42, 191-222.	1.0	11
2	High Prevalence of Antibodies against Canine Parvovirus and Canine Distemper Virus among Coyotes and Foxes from Pennsylvania: Implications for the Intersection of Companion Animals and Wildlife. <i>Microbiology Spectrum</i> , 2022, 10, e0253221.	1.2	9
3	Development of an FhbB based chimeric vaccinogen that elicits antibodies that block Factor H binding and cleavage by the periopathogen <i>Treponema denticola</i> . <i>Molecular Oral Microbiology</i> , 2021, 36, 50-57.	1.3	4
4	The <i>Treponema denticola</i> DgcA protein (TDE0125) is a functional diguanylate cyclase. <i>Pathogens and Disease</i> , 2021, 79, .	0.8	4
5	The Leptospiral General Secretory Protein D (GspD), a secretin, elicits complement-independent bactericidal antibody against diverse <i>Leptospira</i> species and serovars. <i>Vaccine: X</i> , 2021, 7, 100089.	0.9	6
6	The <i>Borrelia burgdorferi</i> Adenylate Cyclase, CyaB, Is Important for Virulence Factor Production and Mammalian Infection. <i>Frontiers in Microbiology</i> , 2021, 12, 676192.	1.5	2
7	High-resolution crystal structure of the <i>Borrelia burgdorferi</i> PlzA protein in complex with c-di-GMP: new insights into the interaction of c-di-GMP with the novel xPilZ domain. <i>Pathogens and Disease</i> , 2021, 79, .	0.8	7
8	Comparative analysis of antibody responses to outer surface protein (Osp)A and OspC in dogs vaccinated with Lyme disease vaccines. <i>Veterinary Journal</i> , 2021, 273, 105676.	0.6	7
9	<i>Orientia tsutsugamushi</i> Nucleomodulin Ank13 Exploits the RaDAR Nuclear Import Pathway To Modulate Host Cell Transcription. <i>MBio</i> , 2021, 12, e0181621.	1.8	11
10	Recent Progress in Lyme Disease and Remaining Challenges. <i>Frontiers in Medicine</i> , 2021, 8, 666554.	1.2	55
11	Protective Immunity and New Vaccines for Lyme Disease. <i>Clinical Infectious Diseases</i> , 2020, 70, 1768-1773.	2.9	50
12	<i>Ehrlichia chaffeensis</i> EplA Interaction With Host Cell Protein Disulfide Isomerase Promotes Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 500.	1.8	9
13	VANGUARD®crLyme: A next generation Lyme disease vaccine that prevents <i>B. burgdorferi</i> infection in dogs. <i>Vaccine: X</i> , 2020, 6, 100079.	0.9	14
14	Immunization against <i>Anaplasma phagocytophilum</i> Adhesin Binding Domains Confers Protection against Infection in the Mouse Model. <i>Infection and Immunity</i> , 2020, 88, .	1.0	4
15	Serologic Evidence for the Exposure of Eastern Coyotes ( <i>Canis latrans</i> ) in Pennsylvania to the Tick-Borne Pathogens <i>Borrelia burgdorferi</i> and <i>Anaplasma phagocytophilum</i> . <i>MSphere</i> , 2020, 5, .	1.3	7
16	Field safety study of VANGUARD®crLyme: A vaccine for the prevention of Lyme disease in dogs. <i>Vaccine: X</i> , 2020, 6, 100080.	0.9	5
17	Antibody profiling of a <i>Borrelia burgdorferi</i> (Lyme disease) C6 antibody positive, symptomatic Rottweiler and her pups. <i>Veterinary Journal</i> , 2020, 262, 105504.	0.6	3
18	Development and optimization of OspC chimeritope vaccinogens for Lyme disease. <i>Vaccine</i> , 2020, 38, 1915-1924.	1.7	23

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19	Binding of Host Cell Surface Protein Disulfide Isomerase by <i>Anaplasma phagocytophilum</i> Asp14 Enables Pathogen Infection. <i>MBio</i> , 2020, 11, .	1.8	17
20	The RpoS Gatekeeper in <i>Borrelia burgdorferi</i> : An Invariant Regulatory Scheme That Promotes Spirochete Persistence in Reservoir Hosts and Niche Diversity. <i>Frontiers in Microbiology</i> , 2019, 10, 1923.	1.5	55
21	Diversity of the Lyme Disease Spirochetes and its Influence on Immune Responses to Infection and Vaccination. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2019, 49, 671-686.	0.5	15
22	Analysis of the antigenic determinants of the OspC protein of the Lyme disease spirochetes: Evidence that the C10 motif is not immunodominant or required to elicit bactericidal antibody responses. <i>Vaccine</i> , 2019, 37, 2401-2407.	1.7	25
23	Plasminogen binding and degradation by <i>Treponema denticola</i> : Identification of the plasminogen binding interface on the FhbB protein. <i>Molecular Oral Microbiology</i> , 2018, 33, 249-256.	1.3	4
24	Outer Membrane Protein A Conservation among <i>Orientia tsutsugamushi</i> Isolates Suggests Its Potential as a Protective Antigen and Diagnostic Target. <i>Tropical Medicine and Infectious Disease</i> , 2018, 3, 63.	0.9	6
25	Antimicrobial activity of amoxicillin against <i>Treponema denticola</i> and other oral spirochetes associated with periodontal disease. <i>Journal of Periodontology</i> , 2018, 89, 1467-1474.	1.7	7
26	The <i>Treponema denticola</i> PAS Domain-Containing Histidine Kinase Hpk2 Is a Heme Binding Sensor of Oxygen Levels. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	7
27	The <i>Borrelia burgdorferi</i> c-di-GMP Binding Receptors, PlzA and PlzB, Are Functionally Distinct. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 213.	1.8	14
28	An In Vitro Blood-Feeding Method Revealed Differential <i>Borrelia turicatae</i> (Spirochaetales: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Tick <i>Ornithodoros turicata</i> (Acari: Argasidae). <i>Journal of Medical Entomology</i> , 2017, 54, tjw171.	0.9	9
29	<i>Orientia tsutsugamushi</i> Ank9 is a multifunctional effector that utilizes a novel GRIP-like Golgi localization domain for Golgi-to-endoplasmic reticulum trafficking and interacts with host COPB2. <i>Cellular Microbiology</i> , 2017, 19, e12727.	1.1	34
30	Identification of a defined linear epitope in the OspA protein of the Lyme disease spirochetes that elicits bactericidal antibody responses: Implications for vaccine development. <i>Vaccine</i> , 2017, 35, 3178-3185.	1.7	24
31	<i>Anaplasma marginale</i> Outer Membrane Protein A Is an Adhesin That Recognizes Sialylated and Fucosylated Glycans and Functionally Depends on an Essential Binding Domain. <i>Infection and Immunity</i> , 2017, 85, .	1.0	24
32	Gene Regulation, Two Component Regulatory Systems, and Adaptive Responses in <i>Treponema Denticola</i> . <i>Current Topics in Microbiology and Immunology</i> , 2017, 415, 39-62.	0.7	3
33	Antibody profiling of canine IgG responses to the OspC protein of the Lyme disease spirochetes supports a multivalent approach in vaccine and diagnostic assay development. <i>Veterinary Journal</i> , 2016, 218, 27-33.	0.6	16
34	The <i>Treponema denticola</i> FhbB Protein Is a Dominant Early Antigen That Elicits FhbB Variant-Specific Antibodies That Block Factor H Binding and Cleavage by Dentilisin. <i>Infection and Immunity</i> , 2016, 84, 2051-2058.	1.0	19
35	Cyclic-di-GMP binding induces structural rearrangements in the PlzA and PlzC proteins of the Lyme disease and relapsing fever spirochetes: a possible switch mechanism for c-di-GMP-mediated effector functions. <i>Pathogens and Disease</i> , 2016, 74, ftw105.	0.8	17
36	Essential Domains of <i>Anaplasma phagocytophilum</i> Invasins Utilized to Infect Mammalian Host Cells. <i>PLoS Pathogens</i> , 2015, 11, e1004669.	2.1	33

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37	Comparison of effectiveness of cefovecin, doxycycline, and amoxicillin for the treatment of experimentally induced early Lyme borreliosis in dogs. BMC Veterinary Research, 2015, 11, 163.	0.7	19
38	Orientia tsutsugamushi Strain Ikeda Ankyrin Repeat-Containing Proteins Recruit SCF1 Ubiquitin Ligase Machinery via Poxvirus-Like F-Box Motifs. Journal of Bacteriology, 2015, 197, 3097-3109.	1.0	24
39	Analysis of the complement sensitivity of oral treponemes and the potential influence of <sc>FH</sc> binding, <sc>FH</sc> cleavage and dentilisin activity on the pathogenesis of periodontal disease. Molecular Oral Microbiology, 2014, 29, 194-207.	1.3	19
40	The Borrelia hermsii Factor H Binding Protein FhbA Is Not Required for Infectivity in Mice or for Resistance to Human Complement <i>In Vitro</i>. Infection and Immunity, 2014, 82, 3324-3332.	1.0	13
41	Assessment of the potential contribution of the highly conserved C-terminal motif (C10) of <i>Borrelia burgdorferi</i> outer surface protein C in transmission and infectivity. Pathogens and Disease, 2014, 70, 176-184.	0.8	15
42	<i>A</i> <i>naplasma phagocytophilum</i> surface protein AipA mediates invasion of mammalian host cells. Cellular Microbiology, 2014, 16, 1133-1145.	1.1	36
43	The <i>T</i> reponema denticola <i>AtcR</i> domain-containing response regulator interacts with three architecturally distinct promoter elements: implications for understanding the molecular signaling mechanisms that drive the progression of periodontal disease. Molecular Oral Microbiology, 2014, 29, 219-232.	1.3	10
44	Sequence divergence in the <i>T</i> reponema denticola <i>F</i>hb<i>B</i> protein and its impact on factor <i>H</i> binding. Molecular Oral Microbiology, 2013, 28, 316-330.	1.3	10
45	Identification of Borrelia burgdorferi ospC genotypes in canine tissue following tick infestation: Implications for Lyme disease vaccine and diagnostic assay design. Veterinary Journal, 2013, 198, 412-418.	0.6	24
46	Structure of Factor H-binding Protein B (FhbB) of the Periopathogen, Treponema denticola. Journal of Biological Chemistry, 2012, 287, 12715-12722.	1.6	40
47	Antibodies to Borrelia burgdorferi OspA, OspC, OspF, and C6 Antigens as Markers for Early and Late Infection in Dogs. Vaccine Journal, 2012, 19, 527-535.	3.2	42
48	Treponema denticola: FhbB, Dentilisin, Complement Evasion and the Paradox of Factor H Cleavage. , 2012, , 43-62.		11
49	Tick Salivary Proteins Offer the Lyme Disease Spirochetes an Easy Ride and Another Way to Hide. Cell Host and Microbe, 2011, 10, 95-96.	5.1	0
50	Identification of the primary mechanism of complement evasion by the periodontal pathogen, <i>Treponema denticola</i>. Molecular Oral Microbiology, 2011, 26, 140-149.	1.3	34
51	The diguanylate cyclase, Rrp1, regulates critical steps in the enzootic cycle of the Lyme disease spirochetes. Molecular Microbiology, 2011, 81, 219-231.	1.2	87
52	Crystallization of the factor H-binding protein, FhbB, from the periopathogen <i>Treponema denticola</i>. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 678-681.	0.7	13
53	Molecular Signaling Mechanisms of the Periopathogen, <i>Treponema denticola</i>. Journal of Dental Research, 2011, 90, 1155-1163.	2.5	29
54	Genetic Transformation of the Relapsing Fever Spirochete Borrelia hermsii: Stable Integration and Expression of Green Fluorescent Protein from Linear Plasmid 200. Journal of Bacteriology, 2011, 193, 3241-3245.	1.0	14

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55	Disulfide-Mediated Oligomer Formation in <i>Borrelia burgdorferi</i> Outer Surface Protein C, a Critical Virulence Factor and Potential Lyme Disease Vaccine Candidate. <i>Vaccine Journal</i> , 2011, 18, 901-906.	3.2	12
56	Identification and molecular characterization of a cyclic-di-GMP effector protein, PlzA (BB0733): additional evidence for the existence of a functional cyclic-di-GMP regulatory network in the Lyme disease spirochete, <i>Borrelia burgdorferi</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2010, 58, 285-294.	2.7	57
57	Identification of residues within ligand-binding domain 1 (LBD1) of the <i>Borrelia burgdorferi</i> OspC protein required for function in the mammalian environment. <i>Molecular Microbiology</i> , 2010, 76, 393-408.	1.2	54
58	The Hpk2-Rrp2 two-component regulatory system of <i>Treponema denticola</i> : a potential regulator of environmental and adaptive responses. <i>Molecular Oral Microbiology</i> , 2010, 25, 241-251.	1.3	10
59	Comparative Analysis of the Properties and Ligand Binding Characteristics of CspZ, a Factor H Binding Protein, Derived from <i>Borrelia burgdorferi</i> Isolates of Human Origin. <i>Infection and Immunity</i> , 2009, 77, 4396-4405.	1.0	46
60	Analysis of a Unique Interaction between the Complement Regulatory Protein Factor H and the Periodontal Pathogen <i>Treponema denticola</i> . <i>Infection and Immunity</i> , 2009, 77, 1417-1425.	1.0	58
61	Rrp1, a cyclic-di-GMP-producing response regulator, is an important regulator of <i>Borrelia burgdorferi</i> core cellular functions. <i>Molecular Microbiology</i> , 2009, 71, 1551-1573.	1.2	137
62	The Scl1 protein of M6-type group A <i>Streptococcus</i> binds the human complement regulatory protein, factor H, and inhibits the alternative pathway of complement. <i>Molecular Microbiology</i> , 2008, 67, 584-596.	1.2	53
63	Identification of an Antiparallel Coiled-Coil/Loop Domain Required for Ligand Binding by the <i>Borrelia hermsii</i> FhbA Protein: Additional Evidence for the Role of FhbA in the Host-Pathogen Interaction. <i>Infection and Immunity</i> , 2008, 76, 2113-2122.	1.0	27
64	Analysis of a Growth-Phase-Regulated Two-Component Regulatory System in the Periodontal Pathogen <i>Treponema denticola</i> . <i>Journal of Bacteriology</i> , 2008, 190, 6162-6169.	1.0	21
65	Identification of the Gene Encoding the FhbB Protein of <i>Treponema denticola</i> , a Highly Unique Factor H-Like Protein 1 Binding Protein. <i>Infection and Immunity</i> , 2007, 75, 1050-1054.	1.0	36
66	OspC Phylogenetic Analyses Support the Feasibility of a Broadly Protective Polyvalent Chimeric Lyme Disease Vaccine. <i>Vaccine Journal</i> , 2007, 14, 628-634.	3.2	49
67	An Octavalent Lyme Disease Vaccine Induces Antibodies That Recognize All Incorporated ospC Type-Specific Sequences. <i>Hum Vaccin</i> , 2007, 3, 281-289.	2.4	62
68	Delineation of Species-Specific Binding Properties of the CspZ Protein (BBH06) of Lyme Disease Spirochetes: Evidence for New Contributions to the Pathogenesis of <i>Borrelia</i> spp. <i>Infection and Immunity</i> , 2007, 75, 5272-5281.	1.0	55
69	Development of an OspC-based tetravalent, recombinant, chimeric vaccinogen that elicits bactericidal antibody against diverse Lyme disease spirochete strains. <i>Vaccine</i> , 2007, 25, 466-480.	1.7	72
70	Construction and analysis of variants of a polyvalent Lyme disease vaccine: Approaches for improving the immune response to chimeric vaccinogens. <i>Vaccine</i> , 2007, 25, 3419-3427.	1.7	35
71	Analysis of Antibody Response in Humans to the Type A OspC Loop 5 Domain and Assessment of the Potential Utility of the Loop 5 Epitope in Lyme Disease Vaccine Development. <i>Vaccine Journal</i> , 2006, 13, 1162-1165.	3.2	36
72	Immunological and Molecular Analyses of the <i>Borrelia hermsii</i> Factor H and Factor H-Like Protein 1 Binding Protein, FhbA: Demonstration of Its Utility as a Diagnostic Marker and Epidemiological Tool for Tick-Borne Relapsing Fever. <i>Infection and Immunity</i> , 2006, 74, 4519-4529.	1.0	32

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73	Molecular Analyses of the Interaction of <i>Borrelia hermsii</i> FhbA with the Complement Regulatory Proteins Factor H and Factor H-Like Protein 1. <i>Infection and Immunity</i> , 2006, 74, 2007-2014.	1.0	63
74	Selective Binding of <i>Borrelia burgdorferi</i> OspE Paralogs to Factor H and Serum Proteins from Diverse Animals: Possible Expansion of the Role of OspE in Lyme Disease Pathogenesis. <i>Infection and Immunity</i> , 2006, 74, 1967-1972.	1.0	69
75	Demonstration of OspC Type Diversity in Invasive Human Lyme Disease Isolates and Identification of Previously Uncharacterized Epitopes That Define the Specificity of the OspC Murine Antibody Response. <i>Infection and Immunity</i> , 2005, 73, 7869-7877.	1.0	108
76	Putative Coiled-Coil Structural Elements of the BBA68 Protein of Lyme Disease Spirochetes Are Required for Formation of Its Factor H Binding Site. <i>Journal of Bacteriology</i> , 2005, 187, 1317-1323.	1.0	47
77	Demonstration of Factor H-Like Protein 1 Binding to <i>Treponema denticola</i> , a Pathogen Associated with Periodontal Disease in Humans. <i>Infection and Immunity</i> , 2005, 73, 7126-7132.	1.0	42
78	Demonstration of Cotranscription and 1-Methyl-3-Nitroso-Nitroguanidine Induction of a 30-Gene Operon of <i>Borrelia burgdorferi</i> : Evidence that the 32-Kilobase Circular Plasmids Are Prophages. <i>Journal of Bacteriology</i> , 2005, 187, 7985-7995.	1.0	50
79	bdrF 2 of Lyme Disease Spirochetes Is Coexpressed with a Series of Cytoplasmic Proteins and Is Produced Specifically during Early Infection. <i>Journal of Bacteriology</i> , 2005, 187, 175-184.	1.0	22
80	Identification and Characterization of a Linear-Plasmid-Encoded Factor H-Binding Protein (FhbA) of the Relapsing Fever Spirochete <i>Borrelia hermsii</i> . <i>Journal of Bacteriology</i> , 2004, 186, 2612-2618.	1.0	85
81	Demonstration of the Involvement of Outer Surface Protein E Coiled Coil Structural Domains and Higher Order Structural Elements in the Binding of Infection-Induced Antibody and the Complement-Regulatory Protein, Factor H. <i>Journal of Immunology</i> , 2004, 173, 7471-7480.	0.4	44
82	Comprehensive Analysis of the Factor H Binding Capabilities of <i>Borrelia</i> Species Associated with Lyme Disease: Delineation of Two Distinct Classes of Factor H Binding Proteins. <i>Infection and Immunity</i> , 2003, 71, 3597-3602.	1.0	132
83	Analysis of the Ability of Spirochete Species Associated with Relapsing Fever, Avian Borreliosis, and Epizootic Bovine Abortion To Bind Factor H and Cleave C3b. <i>Journal of Clinical Microbiology</i> , 2003, 41, 3905-3910.	1.8	63
84	Environmental Regulation and Differential Production of Members of the Bdr Protein Family of <i>Borrelia burgdorferi</i> . <i>Infection and Immunity</i> , 2002, 70, 7033-7041.	1.0	32
85	Evidence That the Variable Regions of the Central Domain of VlsE Are Antigenic during Infection with Lyme Disease Spirochetes. <i>Infection and Immunity</i> , 2002, 70, 4196-4203.	1.0	91
86	Demonstration of the Genetic Stability and Temporal Expression of Select Members of the Lyme Disease Spirochete OspF Protein Family during Infection in Mice. <i>Infection and Immunity</i> , 2001, 69, 4831-4838.	1.0	46
87	Evidence for the Contribution of Point Mutations to vlsE Variation and for Apparent Constraints on the Net Accumulation of Sequence Changes in vlsE during Infection with Lyme Disease Spirochetes. <i>Journal of Bacteriology</i> , 2001, 183, 5855-5861.	1.0	30
88	Analysis of Mechanisms Associated with Loss of Infectivity of Clonal Populations of <i>Borrelia burgdorferi</i> B31MI. <i>Infection and Immunity</i> , 2001, 69, 3670-3677.	1.0	53
89	Analysis of the Cellular Localization of Bdr Paralogs in <i>Borrelia burgdorferi</i> , a Causative Agent of Lyme Disease: Evidence for Functional Diversity. <i>Journal of Bacteriology</i> , 2000, 182, 4222-4226.	1.0	17
90	Mutation and Recombination in the Upstream Homology Box-Flanked ospE -Related Genes of the Lyme Disease Spirochetes Result in the Development of New Antigenic Variants during Infection. <i>Infection and Immunity</i> , 2000, 68, 1319-1327.	1.0	59

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91	Molecular and Immunological Analyses of the <i>Borrelia turicatae</i> Bdr Protein Family. <i>Infection and Immunity</i> , 2000, 68, 2369-2373.	1.0	15
92	Evolutionary and molecular analyses of the <i>Borrelia</i> bdr super gene family: Delineation of distinct sub-families and demonstration of the genus wide conservation of putative functional domains, structural properties and repeat motifs. <i>Microbial Pathogenesis</i> , 2000, 28, 89-105.	1.3	18
93	Genetic Divergence and Evolutionary Instability in <i>ospE</i> -Related Members of the Upstream Homology Box Gene Family in <i>Borrelia burgdorferi</i> Sensu Lato Complex Isolates. <i>Infection and Immunity</i> , 1998, 66, 4656-4668.	1.0	32
94	Analysis of the Organization of Multicopy Linear- and Circular-Plasmid-Carried Open Reading Frames in <i>Borrelia burgdorferi</i> Sensu Lato Isolates. <i>Infection and Immunity</i> , 1998, 66, 1149-1158.	1.0	30
95	Cloning and Molecular Characterization of a Multicopy, Linear Plasmid-Carried, Repeat Motif-Containing Gene from <i>Borrelia turicatae</i> , a Causative Agent of Relapsing Fever. <i>Journal of Bacteriology</i> , 1998, 180, 4974-4981.	1.0	22
96	Cloning and expression of the <i>Borrelia burgdorferi</i> lon gene. <i>Gene</i> , 1997, 194, 137-141.	1.0	11
97	Identification and characterization of an intervening sequence within the 23S ribosomal RNA genes of <i>Campylobacter jejuni</i> . <i>Molecular Microbiology</i> , 1994, 14, 235-241.	1.2	35
98	Cloning and expression of the hup gene encoding a histone-like protein of <i>Campylobacter jejuni</i> . <i>Gene</i> , 1994, 146, 83-86.	1.0	13
99	Evidence Supporting the Presence of <i>Borrelia burgdorferi</i> in Missouri. <i>American Journal of Tropical Medicine and Hygiene</i> , 1994, 51, 475-482.	0.6	37
100	Transcriptional start and MetR binding sites on the <i>Escherichia coli</i> metH gene. <i>Biochemical and Biophysical Research Communications</i> , 1991, 175, 1057-1063.	1.0	16
101	Evidence for a tRNA/rRNA interaction site within the peptidyltransferase center of the <i>Escherichia coli</i> ribosome. <i>Biochemistry</i> , 1989, 28, 893-899.	1.2	17
102	Identification of defined sequences in domain V of <i>E. coli</i> 23S rRNA in the 50S subunit accessible for hybridization with complementary oligodeoxyribonucleotides. <i>Nucleic Acids Research</i> , 1988, 16, 1603-1615.	6.5	8