

Lucio Montanaro

List of Publications by Year in descending order

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108
papers

9,802
citations

66234

42
h-index

35952

97
g-index

108
all docs

108
docs citations

108
times ranked

11823
citing authors

#	ARTICLE	IF	CITATIONS
1	Implant infections: adhesion, biofilm formation and immune evasion. <i>Nature Reviews Microbiology</i> , 2018, 16, 397-409.	13.6	1,342
2	A review of the biomaterials technologies for infection-resistant surfaces. <i>Biomaterials</i> , 2013, 34, 8533-8554.	5.7	1,111
3	The significance of infection related to orthopedic devices and issues of antibiotic resistance. <i>Biomaterials</i> , 2006, 27, 2331-2339.	5.7	921
4	Biofilm formation in <i>Staphylococcus</i> implant infections. A review of molecular mechanisms and implications for biofilm-resistant materials. <i>Biomaterials</i> , 2012, 33, 5967-5982.	5.7	874
5	Antibiotic-loaded biomaterials and the risks for the spread of antibiotic resistance following their prophylactic and therapeutic clinical use. <i>Biomaterials</i> , 2010, 31, 6363-6377.	5.7	342
6	Scenery of <i>Staphylococcus</i> implant infections in orthopedics. <i>Future Microbiology</i> , 2011, 6, 1329-1349.	1.0	322
7	Polysaccharide intercellular adhesin in biofilm: structural and regulatory aspects. <i>Frontiers in Cellular and Infection Microbiology</i> , 2015, 5, 7.	1.8	312
8	A review of the clinical implications of anti-infective biomaterials and infection-resistant surfaces. <i>Biomaterials</i> , 2013, 34, 8018-8029.	5.7	281
9	Extracellular DNA in Biofilms. <i>International Journal of Artificial Organs</i> , 2011, 34, 824-831.	0.7	219
10	Antibiofilm activity of a monolayer of silver nanoparticles anchored to an amino-silanized glass surface. <i>Biomaterials</i> , 2014, 35, 1779-1788.	5.7	185
11	Detection of slime production by means of an optimised Congo red agar plate test based on a colourimetric scale in <i>Staphylococcus epidermidis</i> clinical isolates genotyped for <i>ica</i> locus. <i>Biomaterials</i> , 2002, 23, 4233-4239.	5.7	154
12	Biofilm-Based Implant Infections in Orthopaedics. <i>Advances in Experimental Medicine and Biology</i> , 2015, 830, 29-46.	0.8	134
13	<i>Enterococcus</i> spp. produces slime and survives in rat peritoneal macrophages. <i>Medical Microbiology and Immunology</i> , 2001, 190, 113-120.	2.6	133
14	Relationship between biofilm formation, the enterococcal surface protein (Esp) and gelatinase in clinical isolates of <i>Enterococcus faecalis</i> and <i>Enterococcus faecium</i> . <i>FEMS Microbiology Letters</i> , 2006, 256, 145-150.	0.7	133
15	Evaluation of bacterial adhesion of <i>Streptococcus mutans</i> on dental restorative materials. <i>Biomaterials</i> , 2004, 25, 4457-4463.	5.7	131
16	Inhibition by ricin of protein synthesis <i>in vitro</i> : 60S ribosomal subunit as the target of the toxin (Short Communication). <i>Biochemical Journal</i> , 1973, 136, 813-815.	3.2	128
17	Inhibition by ricin of protein synthesis <i>in vitro</i> . Ribosomes as the target of the toxin. <i>Biochemical Journal</i> , 1973, 136, 677-683.	3.2	119
18	Antibiotic resistance in exopolysaccharide-forming <i>Staphylococcus epidermidis</i> clinical isolates from orthopaedic implant infections. <i>Biomaterials</i> , 2005, 26, 6530-6535.	5.7	117

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19	Cytokine release in mononuclear cells of patients with Co ^{Cr} hip prosthesis. <i>Biomaterials</i> , 1999, 20, 1079-1086.	5.7	111
20	Dynamics of the interaction between a fibronectin molecule and a living bacterium under mechanical force. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13292-13297.	3.3	103
21	Prevalence of <i>cna</i> , <i>fnbA</i> and <i>fnbB</i> adhesin genes among <i>Staphylococcus aureus</i> isolates from orthopedic infections associated to different types of implant. <i>FEMS Microbiology Letters</i> , 2005, 246, 81-86.	0.7	102
22	Detection of biofilm formation in <i>Staphylococcus epidermidis</i> from implant infections. Comparison of a PCR-method that recognizes the presence of <i>ica</i> genes with two classic phenotypic methods. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 425-430.	2.1	98
23	New Trends in Diagnosis and Control Strategies for Implant Infections. <i>International Journal of Artificial Organs</i> , 2011, 34, 727-736.	0.7	97
24	Advancements in molecular epidemiology of implant infections and future perspectives. <i>Biomaterials</i> , 2007, 28, 5155-5168.	5.7	95
25	<i>Staphylococcus epidermidis</i> 's fibronectin binding and its inhibition by heparin. <i>Biomaterials</i> , 2003, 24, 3013-3019.	5.7	87
26	Strong biofilm production, antibiotic multi-resistance and high <i>gelE</i> expression in epidemic clones of <i>Enterococcus faecalis</i> from orthopaedic implant infections. <i>Biomaterials</i> , 2008, 29, 580-586.	5.7	76
27	Presence and expression of collagen adhesin gene (<i>cna</i>) and slime production in <i>Staphylococcus aureus</i> strains from orthopaedic prosthesis infections. <i>Biomaterials</i> , 1999, 20, 1945-1949.	5.7	73
28	Effects on antibiotic resistance of <i>Staphylococcus epidermidis</i> following adhesion to polymethylmethacrylate and to silicone surfaces. <i>Biomaterials</i> , 2002, 23, 1495-1502.	5.7	73
29	Hydroxyapatite-coated orthopaedic screws as infection resistant materials: in vitro study. <i>Biomaterials</i> , 1999, 20, 323-327.	5.7	70
30	In vitro behaviour of bone marrow-derived mesenchymal cells cultured on fluorohydroxyapatite-coated substrata with different roughness. <i>Biomaterials</i> , 2003, 24, 587-596.	5.7	69
31	Emerging Pathogenetic Mechanisms of the Implant-Related Osteomyelitis by <i>Staphylococcus Aureus</i> . <i>International Journal of Artificial Organs</i> , 2011, 34, 781-788.	0.7	69
32	Toll-Like Receptors (TLRs) in Innate Immune Defense Against <i>Staphylococcus Aureus</i> . <i>International Journal of Artificial Organs</i> , 2011, 34, 799-810.	0.7	64
33	Search for the insertion element IS256 within the <i>ica</i> locus of <i>Staphylococcus epidermidis</i> clinical isolates collected from biomaterial-associated infections. <i>Biomaterials</i> , 2004, 25, 4117-4125.	5.7	63
34	Extracellular DNA (eDNA). A Major Ubiquitous Element of the Bacterial Biofilm Architecture. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9100.	1.8	62
35	A multiplex PCR method for the detection of all five individual genes of <i>ica</i> locus in <i>Staphylococcus epidermidis</i> . A survey on 400 clinical isolates from prosthesis-associated infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 408-413.	2.1	59
36	Molecular epidemiology of <i>Staphylococcus aureus</i> from implant orthopaedic infections: Ribotypes, <i>agr</i> polymorphism, leukocidal toxins and antibiotic resistance. <i>Biomaterials</i> , 2008, 29, 4108-4116.	5.7	57

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37	Hijacking of immune defences by biofilms: a multifront strategy. <i>Biofouling</i> , 2019, 35, 1055-1074.	0.8	54
38	Evidence of a linkage between matrilin-1 gene (MATN1) and idiopathic scoliosis. <i>Scoliosis</i> , 2006, 1, 21.	0.4	53
39	The presence of both bone sialoprotein-binding protein gene and collagen adhesin gene as a typical virulence trait of the major epidemic cluster in isolates from orthopedic implant infections. <i>Biomaterials</i> , 2009, 30, 6621-6628.	5.7	52
40	Characterization of 26 <i>Staphylococcus warneri</i> isolates from orthopedic infections. <i>International Journal of Artificial Organs</i> , 2010, 33, 575-581.	0.7	52
41	In catheter infections by <i>Staphylococcus epidermidis</i> the intercellular adhesion (<i>ica</i>) locus is a molecular marker of the virulent slime-producing strains. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 557-562.	3.0	51
42	A Rapid PCR Method for the Detection of Slime-producing Strains of <i>Staphylococcus epidermidis</i> and <i>S. aureus</i> in Periprostheses Infections. <i>Diagnostic Molecular Pathology</i> , 2001, 10, 130-137.	2.1	50
43	Inhibition of bacterial adherence to a high-water-content polymer by a water-soluble, nonsteroidal, anti-inflammatory drug. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 42, 1-5.	3.0	44
44	Concise Survey of <i>Staphylococcus Aureus</i> Virulence Factors that Promote Adhesion and Damage to Peri-Implant Tissues. <i>International Journal of Artificial Organs</i> , 2011, 34, 771-780.	0.7	44
45	Detection of biofilm-forming strains of <i>Staphylococcus epidermidis</i> and <i>S. aureus</i> . <i>Expert Review of Molecular Diagnostics</i> , 2002, 2, 478-484.	1.5	43
46	Promising in vitro performances of a new nickel-free stainless steel. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 267-275.	1.7	41
47	Presence of fibrinogen-binding adhesin gene in <i>Staphylococcus epidermidis</i> isolates from central venous catheters-associated and orthopaedic implant-associated infections. <i>Biomaterials</i> , 2004, 25, 4825-4829.	5.7	40
48	<i>Streptococcus agalactiae</i> Non-Pilus, Cell Wall-Anchored Proteins: Involvement in Colonization and Pathogenesis and Potential as Vaccine Candidates. <i>Frontiers in Immunology</i> , 2018, 9, 602.	2.2	39
49	Orthopedic implant infections: Incompetence of <i>Staphylococcus epidermidis</i> , <i>Staphylococcus lugdunensis</i> , and <i>Enterococcus faecalis</i> to invade osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 788-801.	2.1	38
50	Shiga-like toxin I is a polynucleotide:adenosine glycosidase. <i>Molecular Microbiology</i> , 1998, 29, 661-662.	1.2	37
51	Differential requirement of ATP and extra-ribosomal proteins for ribosome inactivation by eight RNA N-glycosidases. <i>Biochemical and Biophysical Research Communications</i> , 1992, 182, 579-582.	1.0	31
52	The RNA-N-glycosidase activity of Shiga-like toxin I: Kinetic parameters of the native and activated toxin. <i>Toxicon</i> , 1997, 35, 1431-1437.	0.8	30
53	<i>Staphylococcus Lugdunensis</i> , An Aggressive Coagulase-Negative Pathogen not to be Underestimated. <i>International Journal of Artificial Organs</i> , 2012, 35, 742-753.	0.7	30
54	Colonization and Infection of Indwelling Medical Devices by <i>Staphylococcus aureus</i> with an Emphasis on Orthopedic Implants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5958.	1.8	30

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55	Occurrence of <i>ica</i> genes for slime synthesis in a collection of <i>Staphylococcus epidermidis</i> strains from orthopedic prosthesis infections. <i>Acta Orthopaedica</i> , 2003, 74, 617-621.	1.4	28
56	Antibiotic multiresistance strictly associated with IS256 and <i>ica</i> genes in <i>Staphylococcus epidermidis</i> strains from implant orthopedic infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 813-818.	2.1	27
57	Interactions of <i>Staphylococci</i> with Osteoblasts and Phagocytes in the Pathogenesis of Implant-Associated Osteomyelitis. <i>International Journal of Artificial Organs</i> , 2012, 35, 713-726.	0.7	27
58	Shiga toxin 1: damage to DNA in vitro. <i>Toxicon</i> , 2001, 39, 341-348.	0.8	26
59	Exploring the anticancer effects of standardized extracts of poplar-type propolis: In vitro cytotoxicity toward cancer and normal cell lines. <i>Biomedicine and Pharmacotherapy</i> , 2021, 141, 111895.	2.5	24
60	Inhibition of protein synthesis by ricin: experiments with rat liver mitochondria and nuclei and with ribosomes from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 1974, 142, 695-697.	1.7	23
61	The role of <i>Enterococcus faecalis</i> in orthopaedic peri-implant infections demonstrated by automated ribotyping and cluster analysis. <i>Biomaterials</i> , 2007, 28, 3987-3995.	5.7	23
62	Cluster analysis of ribotyping profiles of <i>Staphylococcus epidermidis</i> isolates recovered from foreign body-associated orthopedic infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 664-672.	2.1	23
63	Internalization by Osteoblasts of Two <i>Staphylococcus Aureus</i> Clinical Isolates Differing in their Adhesin Gene Pattern. <i>International Journal of Artificial Organs</i> , 2011, 34, 789-798.	0.7	23
64	Bacterial adhesion to poly-(D,L-lactic acid) blended with vitamin E: Toward gentle anti-infective biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1447-1458.	2.1	23
65	Biofilm Extracellular-DNA in 55 <i>Staphylococcus Epidermidis</i> Clinical Isolates from Implant Infections. <i>International Journal of Artificial Organs</i> , 2011, 34, 840-846.	0.7	21
66	Molecular Characterization of a Prevalent Ribocluster of Methicillin-Sensitive <i>Staphylococcus aureus</i> from Orthopedic Implant Infections. Correspondence with MLST CC30. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 8.	1.8	21
67	Cu ²⁺ - and Ag ⁺ -complexes with a hyaluronane-based hydrogel. <i>Journal of Materials Chemistry</i> , 2002, 12, 3084-3092.	6.7	20
68	Prospecting Gene Therapy of Implant Infections. <i>International Journal of Artificial Organs</i> , 2009, 32, 689-695.	0.7	20
69	Tracing the origins of extracellular DNA in bacterial biofilms: story of death and predation to community benefit. <i>Biofouling</i> , 2021, 37, 1022-1039.	0.8	20
70	Surface Protein EF3314 Contributes to Virulence Properties of <i>Enterococcus faecalis</i> . <i>International Journal of Artificial Organs</i> , 2009, 32, 611-620.	0.7	18
71	Serratiopeptidase reduces the invasion of osteoblasts by <i>Staphylococcus aureus</i> . <i>International Journal of Immunopathology and Pharmacology</i> , 2017, 30, 423-428.	1.0	16
72	Dye affinity chromatography of ricin subunits. <i>Bioscience Reports</i> , 1986, 6, 1035-1040.	1.1	15

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73	Differential up-regulation by tRNAs of ribosome-inactivating proteins. <i>FEBS Letters</i> , 1995, 373, 115-118.	1.3	15
74	Exopolysaccharide Production by <i>Staphylococcus Epidermidis</i> and its Relationship with Biofilm Extracellular DNA. <i>International Journal of Artificial Organs</i> , 2011, 34, 832-839.	0.7	15
75	Interaction of alpha-sarcin and gelonin with Cibacron blue. <i>Bioscience Reports</i> , 1986, 6, 901-908.	1.1	14
76	Various biofilm matrices of the emerging pathogen <i>Staphylococcus lugdunensis</i> : exopolysaccharides, proteins, eDNA and their correlation with biofilm mass. <i>Biofouling</i> , 2020, 36, 86-100.	0.8	13
77	An Overview of the Methodological Approach to the in Vitro Study of Anti-Infective Biomaterials. <i>International Journal of Artificial Organs</i> , 2012, 35, 800-816.	0.7	12
78	Detection of the Gâ†T Polymorphism at the Sp1 Binding Site of the Collagen Type Î±1 Gene by a Novel Arms-PCR Method. <i>Genetic Testing and Molecular Biomarkers</i> , 2002, 6, 53-57.	1.7	11
79	Perspectives on DNA Vaccines. Targeting Staphylococcal Adhesins to Prevent Implant Infections. <i>International Journal of Artificial Organs</i> , 2009, 32, 635-641.	0.7	11
80	Description of a New Group of Variants of the <i>Staphylococcus Aureus</i> Elastin-Binding Protein that Lacks an Entire DNA Segment of 180 bp. <i>International Journal of Artificial Organs</i> , 2009, 32, 621-629.	0.7	11
81	Studying Bacterial Adhesion to Irregular or Porous Surfaces. , 0, , 331-343.		11
82	Uncompetitive inhibition by adenine of the RNA-N-glycosidase activity of ribosome-inactivating proteins. <i>BBA - Proteins and Proteomics</i> , 1998, 1384, 277-284.	2.1	10
83	Identification of the tRNAs which up-regulate agrostin, barley RIP and PAP-S, three ribosome-inactivating proteins of plant origin. <i>FEBS Letters</i> , 1998, 431, 259-262.	1.3	9
84	New Parameters to Quantitatively Express the Invasiveness of Bacterial Strains from Implant-Related Orthopaedic Infections into Osteoblast Cells. <i>Materials</i> , 2018, 11, 550.	1.3	9
85	Antibacterial Properties of a Novel Zirconium Phosphate-Glycinediphosphonate Loaded with Either Zinc or Silver. <i>Materials</i> , 2019, 12, 3184.	1.3	9
86	Cofactor requirement of ribosome-inactivating proteins from plants. <i>Journal of Experimental Botany</i> , 1997, 48, 1519-1523.	2.4	8
87	Polymorphisms of <i>agr</i> locus correspond to distinct genetic patterns of virulence in <i>Staphylococcus aureus</i> clinical isolates from orthopedic implant infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 825-832.	2.1	8
88	Current Methods for Molecular Epidemiology Studies of Implant Infections. <i>International Journal of Artificial Organs</i> , 2009, 32, 642-654.	0.7	7
89	Prevalence of genes for aminoglycoside-modifying enzymes in <i>Staphylococcus epidermidis</i> isolates from orthopedic postsurgical and implant-related infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 654-663.	2.1	7
90	Interaction of diphtheria toxin fragment A and of elongation factor 2 with Cibacron blue. <i>Bioscience Reports</i> , 1987, 7, 737-743.	1.1	6

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91	Alpha-sarcin impairs the N-glycosidase activity of ricin on ribosomes. <i>Biochemical and Biophysical Research Communications</i> , 1989, 160, 857-861.	1.0	6
92	Influence of polyethylene terephthalate on the release of growth factors by human endothelial cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 891-900.	1.9	6
93	Nucleotides U28-A42 and A37 in unmodified yeast tRNA ^{Trp} as negative identity elements for bovine tryptophanyl-tRNA synthetase. <i>FEBS Letters</i> , 2001, 492, 238-241.	1.3	6
94	Panton-Valentine Leukocidin Gene Detected in a <i>Staphylococcus Aureus</i> Strain Isolated from a Knee Arthroprosthesis Infection. <i>International Journal of Artificial Organs</i> , 2009, 32, 630-634.	0.7	6
95	General Assembly, Treatment, Multidisciplinary Issues: Proceedings of International Consensus on Orthopedic Infections. <i>Journal of Arthroplasty</i> , 2019, 34, S239-S243.	1.5	6
96	Effect of temperature on haemagglutinating activity and on the conformation of leucoagglutinin, a lectin from <i>Phaseolus vulgaris</i> (red kidney bean). <i>FEBS Letters</i> , 1980, 120, 115-118.	1.3	5
97	Identity elements in bovine tRNA ^{Trp} required for the specific stimulation of gelonin, a plant ribosome-inactivating protein. <i>Rna</i> , 1999, 5, 1357-1363.	1.6	5
98	Production of growth factors by in vitro cultured human endothelial cells after contact with carbon coated polyethylene terephthalate. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 989-997.	1.9	5
99	A survey of adenine and 4-aminopyrazolo[3,4-d]pyrimidine (4-APP) as inhibitors of ribosome-inactivating proteins (RIPs). <i>Life Sciences</i> , 2000, 68, 331-336.	2.0	5
100	Synthesis, Crystal Structure, and Antibacterial Properties of Silver-Functionalized Low-Dimensional Layered Zirconium Phosphonates. <i>Inorganic Chemistry</i> , 2022, 61, 2251-2264.	1.9	5
101	Partial purification of two proteins which sensitize ribosomes to gelonin: Sensitization is not linked to phosphorylation of ribosomal proteins. <i>Toxicon</i> , 1993, 31, 989-996.	0.8	4
102	In vitro effect of temperature on the conformational structure and collagen binding of SdrF, a <i>Staphylococcus epidermidis</i> adhesin. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5593-5603.	1.7	4
103	[64] Fluorescence polarization of elongation factor 2. <i>Methods in Enzymology</i> , 1979, 60, 712-719.	0.4	3
104	Elongation factor 2 from <i>Artemia salina</i> embryos and its affinity for ribosomes. <i>FEBS Journal</i> , 1991, 200, 13-18.	0.2	3
105	Comparison of Automated Ribotyping, spa Typing, and MLST in 108 Clinical Isolates of <i>Staphylococcus aureus</i> from Orthopedic Infections. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1660.	1.8	2
106	tRNA ^{Trp} as cofactor of gelonin, a ribosome-inactivating protein with RNA-N-glycosidase activity features required for the cofactor activity. <i>IUBMB Life</i> , 1996, 40, 181-188.	1.5	1
107	Primer tRNA ^{Trp} of RSV-transformed or RAV-1-infected cells up-regulates the antiribosomal activity of gelonin. <i>Biochimie</i> , 1998, 80, 575-578.	1.3	1
108	Implant Infections and Infection-Resistant Materials. , 2012, , 347-357.		0