Michael S Gilmore

List of Publications by Year
in descending order

135 papers	10,147 citations	34105 52 h-index	39675 94 g-index
135 all docs	135 docs citations	135 times ranked	9573 citing authors

#	Article	IF	Citations
1	Simplified Agar Plate Method for Quantifying Viable Bacteria. BioTechniques, 1997, 23, 648-650.	1.8	445
2	Infection-Derived <i>Enterococcus faecalis</i> Strains Are Enriched in <i>esp</i> , a Gene Encoding a Novel Surface Protein. Infection and Immunity, 1999, 67, 193-200.	2.2	369
3	Modulation of virulence within a pathogenicity island in vancomycin-resistant Enterococcus faecalis. Nature, 2002, 417, 746-750.	27.8	363
4	Multidrug-Resistant Enterococci Lack CRISPR- <i>cas</i>. MBio, 2010, 1, .	4.1	362
5	Emergence of Epidemic Multidrug-Resistant Enterococcus faecium from Animal and Commensal Strains. MBio, 2013, 4, .	4.1	336
6	Bacterial Endophthalmitis: Epidemiology, Therapeutics, and Bacterium-Host Interactions. Clinical Microbiology Reviews, 2002, 15, 111-124.	13.6	310
7	A new class of synthetic retinoid antibiotics effective against bacterial persisters. Nature, 2018, 556, 103-107.	27.8	307
8	Role of <i>Enterococcus faecalis</i> Surface Protein Esp in the Pathogenesis of Ascending Urinary Tract Infection. Infection and Immunity, 2001, 69, 4366-4372.	2.2	287
9	The persistent dilemma of microbial keratitis: Global burden, diagnosis, and antimicrobial resistance. Survey of Ophthalmology, 2019, 64, 255-271.	4.0	287
10	Genetic Diversity among Enterococcus faecalis. PLoS ONE, 2007, 2, e582.	2.5	265
11	Comparative Genomics of Enterococci: Variation in Enterococcus faecalis, Clade Structure in E. faecium, and Defining Characteristics of <i>E</i> .Â <i>gallinarum</i> and <i>E</i> .Â <i>casseliflavus</i>. MBio, 2012, 3, e00318-11.	4.1	259
12	Pathogenicity of Enterococci. Microbiology Spectrum, 2019, 7, .	3.0	230
13	Genomic transition of enterococci from gut commensals to leading causes of multidrug-resistant hospital infection in the antibiotic era. Current Opinion in Microbiology, 2013, 16, 10-16.	5.1	220
14	Tracing the Enterococci from Paleozoic Origins to the Hospital. Cell, 2017, 169, 849-861.e13.	28.9	209
15	Two-component regulator of Enterococcus faecalis cytolysin responds to quorum-sensing autoinduction. Nature, 2002, 415, 84-87.	27.8	192
16	Structural analysis and proteolytic activation of Enterococcus faecalis cytolysin, a novel lantibiotic. Molecular Microbiology, 1996, 21, 1175-1184.	2.5	184
17	Extracellular superoxide production by Enterococcus faecalis requires demethylmenaquinone and is attenuated by functional terminal quinol oxidases. Molecular Microbiology, 2008, 42, 729-740.	2.5	171
18	Mechanism of chromosomal transfer of <i>Enterococcus faecalis</i> pathogenicity island, capsule, antimicrobial resistance, and other traits. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12269-12274.	7.1	165

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19	Friend Turned Foe: Evolution of Enterococcal Virulence and Antibiotic Resistance. Annual Review of Microbiology, 2014, 68, 337-356.	7.3	162
20	Pathogenesis of Gram-Positive Bacterial Endophthalmitis. Infection and Immunity, 1999, 67, 3348-3356.	2.2	159
21	The Enterococcus faecalis cytolysin: a novel toxin active against eukaryotic and prokaryotic cells. Cellular Microbiology, 2003, 5, 661-669.	2.1	148
22	The Thin Line Between Gut Commensal and Pathogen. Science, 2003, 299, 1999-2002.	12.6	146
23	The capsular polysaccharide of Enterococcus faecalis and its relationship to other polysaccharides in the cell wall. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1574-1579.	7.1	139
24	Quorum sensing and DNA release in bacterial biofilms. Current Opinion in Microbiology, 2006, 9, 133-137.	5.1	139
25	Genes Contributing to Staphylococcus aureus Fitness in Abscess- and Infection-Related Ecologies. MBio, 2014, 5, e01729-14.	4.1	130
26	Identification of a Botulinum Neurotoxin-like Toxin in a Commensal Strain of Enterococcus faecium. Cell Host and Microbe, 2018, 23, 169-176.e6.	11.0	127
27	Comparative Genomics of Vancomycin-Resistant Staphylococcus aureus Strains and Their Positions within the Clade Most Commonly Associated with Methicillin-Resistant S. aureus Hospital-Acquired Infection in the United States. MBio, 2012, 3, .	4.1	125
28	Structure, Function, and Biology of the Enterococcus faecalis Cytolysin. Toxins, 2013, 5, 895-911.	3.4	123
29	Biofilms in Infections of the Eye. Pathogens, 2015, 4, 111-136.	2.8	120
30	Bacterial Hypoxic Responses Revealed as Critical Determinants of the Host-Pathogen Outcome by TnSeq Analysis of Staphylococcus aureus Invasive Infection. PLoS Pathogens, 2015, 11, e1005341.	4.7	118
31	Differential Expression of Virulence-Related Genes in Enterococcus faecalis in Response to Biological Cues in Serum and Urine. Infection and Immunity, 2002, 70, 4344-4352.	2.2	110
32	Clonal Associations among Staphylococcus aureus Isolates from Various Sites of Infection. Infection and Immunity, 2001, 69, 345-352.	2.2	104
33	Role of Hemolysin BL in the Pathogenesis of Extraintestinal <i>Bacillus cereus</i> Infection Assessed in an Endophthalmitis Model. Infection and Immunity, 1999, 67, 3357-3366.	2.2	103
34	Contribution of Gelatinase, Serine Protease, and fsr to the Pathogenesis of Enterococcus faecalis Endophthalmitis. Infection and Immunity, 2004, 72, 3628-3633.	2.2	102
35	Plasmid pGB301, a new multiple resistance streptococcal cloning vehicle and its use in cloning of a gentamicin/kanamycin resistance determinant. Molecular Genetics and Genomics, 1981, 182, 414-421.	2.4	97
36	Genome-wide screen for genes involved in eDNA release during biofilm formation by <i>Staphylococcus aureus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5969-E5978.	7.1	97

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37	Enterococcus faecalis Senses Target Cells and in Response Expresses Cytolysin. Science, 2004, 306, 2270-2272.	12.6	95
38	Microbial Biofilms in Ophthalmology and Infectious Disease. JAMA Ophthalmology, 2008, 126, 1572.	2.4	95
39	Co-infecting microorganisms dramatically alter pathogen gene essentiality during polymicrobial infection. Nature Microbiology, 2017, 2, 17079.	13.3	91
40	Relationship of plcR -Regulated Factors to Bacillus Endophthalmitis Virulence. Infection and Immunity, 2003, 71, 3116-3124.	2.2	85
41	Compound-gene interaction mapping reveals distinct roles for <i>Staphylococcus aureus</i> teichoic acids. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12510-12515.	7.1	84
42	High-Quality Draft Genome Sequences of 28 <i>Enterococcus</i> sp. Isolates. Journal of Bacteriology, 2010, 192, 2469-2470.	2.2	80
43	A new platform for ultra-high density Staphylococcus aureus transposon libraries. BMC Genomics, 2015, 16, 252.	2.8	80
44	Location of antibiotic resistance determinants, copy control, and replication functions on the double-selective streptococcal cloning vector pGB301. Molecular Genetics and Genomics, 1981, 184, 115-120.	2.4	76
45	Î±B-Crystallin Protects Retinal Tissue during <i>Staphylococcus aureus</i> - Induced Endophthalmitis. Infection and Immunity, 2008, 76, 1781-1790.	2.2	71
46	Bacterial endophthalmitis in the age of outpatient intravitreal therapies and cataract surgeries: Hostâ€“microbe interactions in intraocular infection. Progress in Retinal and Eye Research, 2012, 31, 316-331.	15.5	68
47	BacillusEndophthalmitis: Roles of Bacterial Toxins and Motility during Infection. , 2005, 46, 3233.		67
48	Mechanisms and consequences of gut commensal translocation in chronic diseases. Gut Microbes, 2020, 11, 217-230.	9.8	67
49	Enterococcal virulence - pathogenicity island of E. Faecalis. Frontiers in Bioscience - Landmark, 2004, 9, 2335.	3.0	65
50	Genetic Variation and Evolution of the Pathogenicity Island of <i>Enterococcus faecalis</i>. Journal of Bacteriology, 2009, 191, 3392-3402.	2.2	64
51	Electroporation and Efficient Transformation of Enterococcus faecalis Grown in High Concentrations of Glycine. , 1995, 47, 217-226.		63
52	Identification of a Functionally Unique Family of Penicillin-Binding Proteins. Journal of the American Chemical Society, 2017, 139, 17727-17730.	13.7	63
53	Promysalin Elicits Species-Selective Inhibition of <i>Pseudomonas aeruginosa</i> by Targeting Succinate Dehydrogenase. Journal of the American Chemical Society, 2018, 140, 1774-1782.	13.7	63
54	Contribution of Membrane-Damaging Toxins to Bacillus Endophthalmitis Pathogenesis. Infection and Immunity, 2002, 70, 5381-5389.	2.2	59

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55	Biocompatibility and biofilm inhibition of N,N-hexyl,methyl-polyethylenimine bonded to Boston Keratoprosthesis materials. Biomaterials, 2011, 32, 8783-8796.	11.4	56
56	Fas Ligand but Not Complement Is Critical for Control of ExperimentalStaphylococcus aureusEndophthalmitis. , 2005, 46, 2479.		53
57	Enterococcal cytolysin: activities and association with other virulence traits in a pathogenicity island. International Journal of Medical Microbiology, 2004, 293, 609-618.	3.6	52
58	Infectious corneal ulceration: a proposal for neglected tropical disease status. Bulletin of the World Health Organization, 2019, 97, 854-856.	3.3	52
59	The (p)ppGpp synthetase RelA contributes to stress adaptation and virulence in Enterococcus faecalis V583. Microbiology (United Kingdom), 2009, 155, 3226-3237.	1.8	50
60	Multidrug Intrinsic Resistance Factors in Staphylococcus aureus Identified by Profiling Fitness within High-Diversity Transposon Libraries. MBio, 2016, 7, .	4.1	46
61	Unencapsulated Streptococcus pneumoniae from conjunctivitis encode variant traits and belong to a distinct phylogenetic cluster. Nature Communications, 2014, 5, 5411.	12.8	45
62	Pheromone killing of multidrug-resistant <i>Enterococcus faecalis</i> V583 by native commensal strains. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7273-7278.	7.1	45
63	Mutations in Pneumococcal <i>cpsE</i> Generated via <i>In Vitro</i> Serial Passaging Reveal a Potential Mechanism of Reduced Encapsulation Utilized by a Conjunctival Isolate. Journal of Bacteriology, 2015, 197, 1781-1791.	2.2	41
64	Cost-Effectiveness of Follow-Up of Pulmonary Nodules Incidentally Detected on Cardiac Computed Tomographic Angiography in Patients With Suspected Coronary Artery Disease. Circulation, 2014, 130, 668-675.	1.6	40
65	PCR amplification of streptococcal DNA using crude cell lysates. FEMS Microbiology Letters, 1992, 94, 139-142.	1.8	40
66	Daptomycin Resistance and Tolerance Due to Loss of Function in Staphylococcus aureus <i>dsp1</i> and <i>asp23</i>. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	37
67	Molecular Mechanisms ofBacillusEndophthalmitis Pathogenesis. DNA and Cell Biology, 2002, 21, 367-373.	1.9	36
68	Evolution of vancomycin-resistant <i>Enterococcus faecium</i> during colonization and infection in immunocompromised pediatric patients. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11703-11714.	7.1	36
69	Wall teichoic acid protects Staphylococcus aureus from inhibition by Congo red and other dyes. Journal of Antimicrobial Chemotherapy, 2012, 67, 2143-2151.	3.0	34
70	Chicken Meat-Associated Enterococci: Influence of Agricultural Antibiotic Use and Connection to the Clinic. Applied and Environmental Microbiology, 2019, 85, .	3.1	34
71	Resistance in<i>In Vitro</i>Selected Tigecycline-Resistant Methicillin-Resistant<i>Staphylococcus aureus</i>Sequence Type 5 Is Driven by Mutations in<i>mepR</i>and<i>mepA</i>Genes. Microbial Drug Resistance, 2018, 24, 519-526.	2.0	33
72	Molecular Analysis of the Enterococcus faecalis Serotype 2 Polysaccharide Determinant. Journal of Bacteriology, 2003, 185, 4393-4401.	2.2	32

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73	Impact of antibiotic treatment and host innate immune pressure on enterococcal adaptation in the human bloodstream. Science Translational Medicine, 2019, 11, .	12.4	32
74	Clinical metagenomics for infectious corneal ulcers: Rags to riches?. Ocular Surface, 2020, 18, 1-12.	4.4	32
75	A vancomycin surprise. Nature, 1999, 399, 525-527.	27.8	31
76	An ABC Transporter Is Required for Secretion of Peptide Sex Pheromones in Enterococcus faecalis. MBio, 2014, 5, e01726-14.	4.1	31
77	Homologous Recombination within Large Chromosomal Regions Facilitates Acquisition of Î²-Lactam and Vancomycin Resistance in Enterococcus faecium. Antimicrobial Agents and Chemotherapy, 2016, 60, 5777-5786.	3.2	31
78	Staphylococcus aureus â€"Probing for Host Weakness?. Journal of Bacteriology, 2008, 190, 2253-2256.	2.2	27
79	Biofilm Formation byEnterococcus faecalison Intraocular Lens Material. Current Eye Research, 2005, 30, 741-745.	1.5	26
80	Contribution of secreted proteases to the pathogenesis of postoperative Enterococcus faecalis endophthalmitis. Journal of Cataract and Refractive Surgery, 2008, 34, 1776-1784.	1.5	26
81	Chronic liver disease enables gut Enterococcus faecalis colonization to promote liver carcinogenesis. Nature Cancer, 2021, 2, 1039-1054.	13.2	26
82	Novel Phagocytosis-Resistant Extended-Spectrum Î²-Lactamaseâ€"Producing <i>Escherichia coli</i> From Keratitis. JAMA Ophthalmology, 2016, 134, 1306.	2.5	25
83	Raising the Alarmone: Within-Host Evolution of Antibiotic-Tolerant <i>Enterococcus faecium</i>. MBio, 2017, 8, .	4.1	24
84	PolyGlcNAc-containing exopolymers enable surface penetration by non-motile Enterococcus faecalis. PLoS Pathogens, 2019, 15, e1007571.	4.7	24
85	Validation of a Comprehensive Clinical Algorithm for the Assessment and Treatment of Microbial Keratitis. American Journal of Ophthalmology, 2020, 214, 97-109.	3.3	23
86	Role of Wall Teichoic Acids in<i>Staphylococcus aureus</i>Endophthalmitis. , 2011, 52, 3187.		22
87	CRISPR-Cas: To Take Up DNA or Notâ€"That Is the Question. Cell Host and Microbe, 2012, 12, 125-126.	11.0	22
88	Emerging enterococcus pore-forming toxins with MHC/HLA-I as receptors. Cell, 2022, 185, 1157-1171.e22.	28.9	22
89	Staphylococcus aureus from ocular and otolaryngology infections are frequently resistant to clinically important antibiotics and are associated with lineages of community and hospital origins. PLoS ONE, 2018, 13, e0208518.	2.5	21
90	Enterococcus faecalis Cytolysin without Effect on the Intestinal Growth of Susceptible Enterococci in Mice. Journal of Infectious Diseases, 1995, 172, 273-276.	4.0	20

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91	Transferable vancomycin resistance in clade B commensal-type Enterococcus faecium. Journal of Antimicrobial Chemotherapy, 2018, 73, 1479-1486.	3.0	20
92	Rapid Detection and Identification of Uveitis Pathogens by Qualitative Multiplex Real-Time PCR. , 2018, 59, 582.		20
93	Mapping Transposon Insertions in Bacterial Genomes by Arbitrarily Primed PCR. Current Protocols in Molecular Biology, 2017, 118, 15.15.1-15.15.15.	2.9	19
94	Genes Contributing to the Unique Biology and Intrinsic Antibiotic Resistance of Enterococcus faecalis. MBio, 2020, 11, .	4.1	19
95	Transferable Resistance Gene <i>optrA</i> in Enterococcus faecalis from Swine in Brazil. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	19
96	Staphylococcus aureusand its Bearing on Ophthalmic Disease. Ocular Immunology and Inflammation, 2017, 25, 111-121.	1.8	17
97	Coexistence of the Oxazolidinone Resistanceâ€“Associated Genes cfr and optrA in Enterococcus faecalis From a Healthy Piglet in Brazil. Frontiers in Public Health, 2020, 8, 518.	2.7	17
98	Transcriptional response of Enterococcus faecalis to sunlight. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 349-356.	3.8	16
99	Novel model of innate immunity in corneal infection. In Vitro Cellular and Developmental Biology - Animal, 2015, 51, 827-834.	1.5	16
100	Impact of Antibiotic Use on the Evolution of<i>Enterococcus faecium</i>. Journal of Infectious Diseases, 2016, 213, 1862-1865.	4.0	16
101	A Genomic Virulence Reference Map of Enterococcus faecalis Reveals an Important Contribution of Phage03-Like Elements in Nosocomial Genetic Lineages to Pathogenicity in a Caenorhabditis elegans Infection Model. Infection and Immunity, 2015, 83, 2156-2167.	2.2	15
102	Killing of VRE<i>Enterococcus faecalis</i>by commensal strains: Evidence for evolution and accumulation of mobile elements in the absence of competition. Gut Microbes, 2016, 7, 90-96.	9.8	14
103	Molecular basis for the emergence of a new hospital endemic tigecycline-resistant Enterococcus faecalis ST103 lineage. Infection, Genetics and Evolution, 2019, 67, 23-32.	2.3	13
104	Hospital-Associated Multidrug-Resistant MRSA Lineages Are Trophic to the Ocular Surface and Cause Severe Microbial Keratitis. Frontiers in Public Health, 2020, 8, 204.	2.7	12
105	Genome Mining for Antimicrobial Compounds in Wild Marine Animals-Associated Enterococci. Marine Drugs, 2021, 19, 328.	4.6	11
106	Pathogenicity of Enterococci. , 0, , 378-397.		10
107	Genomic and Functional Characterization of Enterococcus faecalis Isolates Recovered From the International Space Station and Their Potential for Pathogenicity. Frontiers in Microbiology, 2020, 11, 515319.	3.5	10
108	High-Quality Draft Genome Sequence of Vagococcus lutrae Strain LBD1, Isolated from the Largemouth Bass <i>Micropterus salmoides</i>. Genome Announcements, 2013, 1, .	0.8	8

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109	In Vitro and In Vivo Models of Staphylococcus aureus Endophthalmitis Implicate Specific Nutrients in Ocular Infection. PLoS ONE, 2014, 9, e110872.	2.5	8
110	Neither non-toxigenicStaphylococcus aureusnor commensalS.epidermidiactivates NLRP3 inflammasomes in human conjunctival goblet cells. BMJ Open Ophthalmology, 2017, 2, e000101.	1.6	8
111	A mutation in the glycosyltransferase gene lafB causes daptomycin hypersusceptibility in Enterococcus faecium. Journal of Antimicrobial Chemotherapy, 2020, 75, 36-45.	3.0	8
112	Resolution of fluoroquinolone-resistant Escherichia coli keratitis with a PROSE device for enhanced targeted antibiotic delivery. American Journal of Ophthalmology Case Reports, 2018, 12, 73-75.	0.7	7
113	Propyl-5-hydroxy-3-methyl-1-phenyl-1H-pyrazole-4-carbodithioate (HMPC): a new bacteriostatic agent against methicillinâ€"resistant Staphylococcus aureus. Scientific Reports, 2018, 8, 7062.	3.3	6
114	Long-Term Colonization Dynamics of Enterococcus faecalis in Implanted Devices in Research Macaques. Applied and Environmental Microbiology, 2018, 84, .	3.1	6
115	A Delicate Balance: Maintaining Mutualism to Prevent Disease. Cell Host and Microbe, 2014, 16, 425-427.	11.0	5
116	The Best of All Worlds: Streptococcus pneumoniae Conjunctivitis through the Lens of Community Ecology and Microbial Biogeography. Microorganisms, 2020, 8, 46.	3.6	5
117	Enterococci from Wild Magellanic Penguins (Spheniscus magellanicus) as an Indicator of Marine Ecosystem Health and Human Impact. Applied and Environmental Microbiology, 2020, 86, .	3.1	5
118	Dual defensin strategy for targeting <i>Enterococcus faecalis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19980-19981.	7.1	4
119	Complete Genome Sequence of Linezolid-Susceptible Staphylococcus haemolyticus Sh29/312/L2, a Clonal Derivative of a Linezolid-Resistant Clinical Strain. Genome Announcements, 2015, 3, .	0.8	4
120	High-Quality Draft Genome Sequence of the Multidrug-Resistant Clinical Isolate Enterococcus faecium VRE16. Genome Announcements, 2016, 4, .	0.8	4
121	Methicillin-resistant Staphylococcus aureus in acute otitis externa. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2018, 4, 246-252.	1.6	4
122	The Search for Antifungal Prophylaxis After Artificial Corneal Surgeryâ€"An In Vitro Study. Cornea, 2020, 39, 1547-1555.	1.7	4
123	Translation of Messenger RNA from Canine Tracheal Epithelial Cells: Identification of Mucin Core Protein. American Journal of Respiratory Cell and Molecular Biology, 1991, 5, 149-154.	2.9	3
124	Virulence Plasmids of Nonsporulating Gram-Positive Pathogens. Microbiology Spectrum, 2014, 2, .	3.0	3
125	A CRISPR View of Cleavage. Cell, 2015, 161, 964-966.	28.9	3
126	Influence of the Alternative Sigma Factor RpoN on Global Gene Expression and Carbon Catabolism in Enterococcus faecalis V583. MBio, 2021, 12, .	4.1	3

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127	A lysin to kill. ELife, 2016, 5, .	6.0	3
128	shsA: A novel orthologous of sasX/sesI virulence genes is detected in Staphylococcus haemolyticus Brazilian strains. Infection, Genetics and Evolution, 2022, 97, 105189.	2.3	3
129	Oxygen as a Virulence Determinant in Polymicrobial Infections. MBio, 2016, 7, .	4.1	2
130	The CRISPRâ€"Antibiotic Resistance Connection. CRISPR Journal, 2019, 2, 199-200.	2.9	2
131	Antibiotic Resistance in Endophthalmitis Pathogens. , 2016, , 239-260.		2
132	The Enterococci. , 2015, , 717-730.		0
133	Authors' response: Povidone-Iodine for the Treatment of Microbial Keratitis. Survey of Ophthalmology, 2019, 64, 892-893.	4.0	0
134	Virulence Plasmids of Nonsporulating Gram-Positive Pathogens. , 0, , 559-576.		0
135	A Cluster of Corneal Donor Rim Cultures Positive for Achromobacter Species Associated With Contaminated Eye Solution. Cornea, 2021, 40, 223-227.	1.7	0