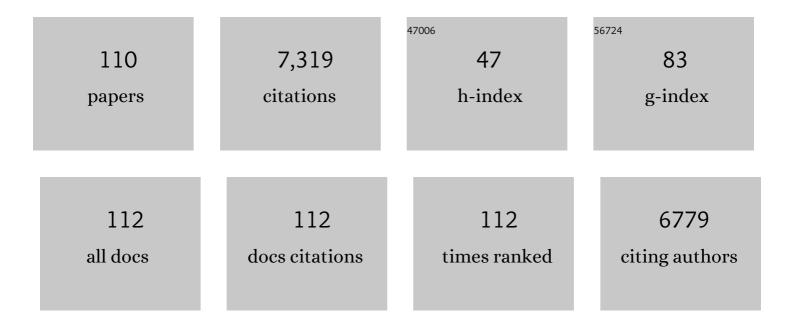
## David J Ecker

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Molecular Microbiological and Immune Characterization of a Cohort of Patients Diagnosed with<br>Early Lyme Disease. Journal of Clinical Microbiology, 2020, 59, .   | 3.9 | 7         |
| 2  | An Antisense Oligonucleotide Leads to Suppressed Transcription of Hdac2 and Long-Term Memory<br>Enhancement. Molecular Therapy - Nucleic Acids, 2020, 19, 1399-1412.  | 5.1 | 18        |
| 3  | Molecular Testing of Serial Blood Specimens from Patients with Early Lyme Disease during Treatment<br>Reveals Changing Coinfection with Mixtures of Borrelia burgdorferi Genotypes. Antimicrobial Agents<br>and Chemotherapy, 2019, 63, .   | 3.2 | 11        |
| 4  | Broad-range survey of vector-borne pathogens and tick host identification of Ixodes ricinus from<br>Southern Czech Republic. FEMS Microbiology Ecology, 2017, 93, .   | 2.7 | 27        |
| 5  | The IRIDICA BAC BSI Assay: Rapid, Sensitive and Culture-Independent Identification of Bacteria and Candida in Blood. PLoS ONE, 2016, 11, e0158186.  | 2.5 | 62        |
| 6  | Tcf4 Regulates Synaptic Plasticity, DNA Methylation, and Memory Function. Cell Reports, 2016, 16, 2666-2685.  | 6.4 | 113       |
| 7  | Rapid Molecular Diagnostics, Antibiotic Treatment Decisions, and Developing Approaches to Inform<br>Empiric Therapy: PRIMERS I and II. Clinical Infectious Diseases, 2016, 62, 181-189.   | 5.8 | 52        |
| 8  | Rapid Diagnosis of Infection in the Critically III, a Multicenter Study of Molecular Detection in<br>Bloodstream Infections, Pneumonia, and Sterile Site Infections*. Critical Care Medicine, 2015, 43,<br>2283-2291.                       | 0.9 | 159       |
| 9  | Survey of Ixodes pacificus Ticks in California Reveals a Diversity of Microorganisms and a Novel and<br>Widespread Anaplasmataceae Species. PLoS ONE, 2015, 10, e0135828.   | 2.5 | 50        |
| 10 | Corrigendum to "Evaluation of PCR electrospray-ionization mass spectrometry for rapid molecular<br>diagnosis of bovine mastitis―(J. Dairy Sci. 96:3611–3620). Journal of Dairy Science, 2015, 98, 718.                                      | 3.4 | 0         |
| 11 | Prevalence of <i>Borrelia miyamotoi</i> in <i>Ixodes</i> Ticks in Europe and the United States. Emerging<br>Infectious Diseases, 2014, 20, 1678-82.   | 4.3 | 95        |
| 12 | Broad-Range Survey of Tick-Borne Pathogens in Southern Germany Reveals a High Prevalence<br>of <i>Babesia microti</i> and a Diversity of Other Tick-Borne Pathogens. Vector-Borne and Zoonotic<br>Diseases, 2014, 14, 584-591.              | 1.5 | 34        |
| 13 | Rapid PCR/ESI-MS-based molecular genotyping of Staphylococcus aureusfrom nasal swabs of emergency department patients. BMC Infectious Diseases, 2014, 14, 16.   | 2.9 | 5         |
| 14 | Improved Sensitivity for Molecular Detection of Bacterial and Candida Infections in Blood. Journal of<br>Clinical Microbiology, 2014, 52, 3164-3174.  | 3.9 | 145       |
| 15 | Detection and identification of viral pathogens in patients with hand, foot, and mouth disease by multilocus PCR, reverse-transcription PCR and electrospray ionization mass spectrometry. Journal of Clinical Virology, 2014, 59, 115-119. | 3.1 | 13        |
| 16 | Germ Catcher. Scientific American, 2014, 310, 50-55.  | 1.0 | 1         |
| 17 | Molecular genotyping of Acinetobacter spp. isolated in Arizona, USA, using multilocus PCR and mass spectrometry. Journal of Medical Microbiology, 2013, 62, 1295-1300.  | 1.8 | 4         |
| 18 | Achieving molecular diagnostics for Lyme disease. Expert Review of Molecular Diagnostics, 2013, 13,<br>875-883.   | 3.1 | 9         |

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|----|---|-----|-----------|
| 19 | Evaluation of PCR electrospray-ionization mass spectrometry for rapid molecular diagnosis of bovine mastitis. Journal of Dairy Science, 2013, 96, 3611-3620.  | 3.4 | 13        |
| 20 | Atypical Erythema Migrans in Patients with PCR-Positive Lyme Disease. Emerging Infectious Diseases, 2013, 19, 815-817.  | 4.3 | 43        |
| 21 | Enhanced Diagnostic Yields of Bacteremia and Candidemia in Blood Specimens by PCR-Electrospray<br>Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2013, 51, 3535-3541.  | 3.9 | 43        |
| 22 | Survey of Culture, GoldenGate Assay, Universal Biosensor Assay, and 16S rRNA Gene Sequencing as<br>Alternative Methods of Bacterial Pathogen Detection. Journal of Clinical Microbiology, 2013, 51,<br>3263-3269.                 | 3.9 | 25        |
| 23 | PCR Followed by Electrospray Ionization Mass Spectrometry for Broad-Range Identification of Fungal<br>Pathogens. Journal of Clinical Microbiology, 2013, 51, 959-966.   | 3.9 | 43        |
| 24 | Broad-Spectrum Biosensor Capable of Detecting and Identifying Diverse Bacterial and Candida Species<br>in Blood. Journal of Clinical Microbiology, 2013, 51, 2670-2678.   | 3.9 | 32        |
| 25 | The value and validation of broad spectrum biosensors for diagnosis and biodefense. Virulence, 2013,<br>4, 752-758.   | 4.4 | 9         |
| 26 | Microbiota Evaluation of Patients With a Boston Type I Keratoprosthesis Treated With Topical 0.5%<br>Moxifloxacin and 5% Povidone–lodine. Cornea, 2013, 32, 407-411.  | 1.7 | 37        |
| 27 | Rapid Diagnosis of Bloodstream Infections with PCR Followed by Mass Spectrometry. PLoS ONE, 2013,<br>8, e62108.   | 2.5 | 54        |
| 28 | "Salvage Microbiology― Detection of Bacteria Directly from Clinical Specimens following Initiation<br>of Antimicrobial Treatment. PLoS ONE, 2013, 8, e66349.  | 2.5 | 30        |
| 29 | Microbial Identification by PCR/Electrospray Ionization-Mass Spectrometry. , 2013, , 441-465.   |     | 1         |
| 30 | Identification of Endosymbionts in Ticks by Broad-Range Polymerase Chain Reaction and Electrospray<br>Ionization Mass Spectrometry. Journal of Medical Entomology, 2012, 49, 843-850.   | 1.8 | 35        |
| 31 | Detection of <i>Plasmodium vivax</i> in a child returning from India by use of broad-range PCR and electrospray ionization mass spectrometry. Emerging Microbes and Infections, 2012, 1, 1-3.                                     | 6.5 | 2         |
| 32 | Identification of Streptococcus intermedius Central Nervous System Infection by Use of PCR and Electrospray Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2012, 50, 4160-4162.                                  | 3.9 | 17        |
| 33 | Detection of heartworm infection in dogs via PCR amplification and electrospray ionization mass<br>spectrometry of nucleic acid extracts from whole blood samples. American Journal of Veterinary<br>Research, 2012, 73, 854-859. | 0.6 | 11        |
| 34 | Concurrent Serotyping and Genotyping of Pneumococci by Use of PCR and Electrospray Ionization<br>Mass Spectrometry. Journal of Clinical Microbiology, 2012, 50, 2018-2025.  | 3.9 | 23        |
| 35 | Comprehensive Biothreat Cluster Identification by PCR/Electrospray-Ionization Mass Spectrometry.<br>PLoS ONE, 2012, 7, e36528.  | 2.5 | 33        |
| 36 | Direct Molecular Detection and Genotyping of Borrelia burgdorferi from Whole Blood of Patients<br>with Early Lyme Disease. PLoS ONE, 2012, 7, e36825.   | 2.5 | 71        |

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|----|---|-----|-----------|
| 37 | Rapid and High-Throughput Detection of Highly Pathogenic Bacteria by Ibis PLEX-ID Technology. PLoS<br>ONE, 2012, 7, e39928.   | 2.5 | 46        |
| 38 | Longitudinal Analysis of the Temporal Evolution of Acinetobacter baumannii Strains in Ohio, USA, by<br>Using Rapid Automated Typing Methods. PLoS ONE, 2012, 7, e33443.   | 2.5 | 15        |
| 39 | Simultaneous Identification of Mycobacterial Isolates to the Species Level and Determination of<br>Tuberculosis Drug Resistance by PCR Followed by Electrospray Ionization Mass Spectrometry. Journal<br>of Clinical Microbiology, 2011, 49, 908-917. | 3.9 | 30        |
| 40 | Reverse transcription polymerase chain reaction and electrospray ionization mass spectrometry for<br>identifying acute viral upper respiratory tract infections. Diagnostic Microbiology and Infectious<br>Disease, 2011, 69, 179-186.                | 1.8 | 34        |
| 41 | Microbial Forensic Analysis of Trace and Unculturable Specimens. , 2011, , 155-171.   |     | 2         |
| 42 | Rapid identification viruses from nasal pharyngeal aspirates in acute viral respiratory infections by<br>RT-PCR and electrospray ionization mass spectrometry. Journal of Virological Methods, 2011, 173, 60-66.                                      | 2.1 | 50        |
| 43 | Analysis of cerebrospinal fluid from chronic fatigue syndrome patients for multiple human<br>ubiquitous viruses and xenotropic murine leukemiaâ€related virus. Annals of Neurology, 2011, 69,<br>735-738.   | 5.3 | 16        |
| 44 | Molecular Characterization of Drug-ResistantMycobacterium tuberculosisIsolates Circulating in<br>China by Multilocus PCR and Electrospray Ionization Mass Spectrometry. Journal of Clinical<br>Microbiology, 2011, 49, 2719-2721.                     | 3.9 | 19        |
| 45 | Genotypic Variation and Mixtures of Lyme Borrelia in Ixodes Ticks from North America and Europe.<br>PLoS ONE, 2010, 5, e10650.  | 2.5 | 78        |
| 46 | Detection and Identification of <i>Ehrlichia</i> Species in Blood by Use of PCR and Electrospray<br>Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2010, 48, 472-478.  | 3.9 | 74        |
| 47 | Rapid identification of blaKPC-possessing Enterobacteriaceae by PCR/electrospray ionization-mass spectrometry. Journal of Antimicrobial Chemotherapy, 2010, 65, 1833-1834.  | 3.0 | 22        |
| 48 | Carbapenem-resistant Acinetobacter baumannii and Klebsiella pneumoniae across a hospital system:<br>impact of post-acute care facilities on dissemination. Journal of Antimicrobial Chemotherapy, 2010, 65,<br>1807-1818.                             | 3.0 | 176       |
| 49 | Pyoderma Gangrenosum–Like Ulcer in a Patient With X-Linked Agammaglobulinemia. Archives of<br>Dermatology, 2010, 146, 523-6.  | 1.4 | 27        |
| 50 | Extraction of Total Nucleic Acids From Ticks for the Detection of Bacterial and Viral Pathogens.<br>Journal of Medical Entomology, 2010, 47, 89-94.   | 1.8 | 55        |
| 51 | New technology for rapid molecular diagnosis of bloodstream infections. Expert Review of<br>Molecular Diagnostics, 2010, 10, 399-415.   | 3.1 | 165       |
| 52 | Rapid identification of vector-borne flaviviruses by mass spectrometry. Molecular and Cellular<br>Probes, 2010, 24, 219-228.  | 2.1 | 36        |
| 53 | Extraction of Total Nucleic Acids From Ticks for the Detection of Bacterial and Viral Pathogens.<br>Journal of Medical Entomology, 2010, 47, 89-94.   | 1.8 | 47        |
| 54 | Rapid Determination of Quinolone Resistance in <i>Acinetobacter</i> spp. Journal of Clinical Microbiology, 2009, 47, 1436-1442.   | 3.9 | 82        |

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|----|---|------|-----------|
| 55 | Rapid Molecular Genotyping and Clonal Complex Assignment of Staphylococcus aureus Isolates by<br>PCR Coupled to Electrospray Ionization-Mass Spectrometry. Journal of Clinical Microbiology, 2009, 47,<br>1733-1741.                            | 3.9  | 63        |
| 56 | Occurrence, Distribution, and Origins of Streptococcus pneumoniae Serotype 6C, a Recently<br>Recognized Serotype. Journal of Clinical Microbiology, 2009, 47, 64-72.  | 3.9  | 61        |
| 57 | Pathogen Profiling: Rapid Molecular Characterization of <i>Staphylococcus aureus</i> by<br>PCR/Electrospray Ionization-Mass Spectrometry and Correlation with Phenotype. Journal of Clinical<br>Microbiology, 2009, 47, 3129-3137.              | 3.9  | 60        |
| 58 | The Microbial Rosetta Stone: a database system for tracking infectious microorganisms. International<br>Journal of Legal Medicine, 2009, 123, 65-69.  | 2.2  | 6         |
| 59 | Molecular Genotyping of Microbes by Multilocus PCR and Mass Spectrometry: A New Tool for<br>Hospital Infection Control and Public Health Surveillance. Methods in Molecular Biology, 2009, 551,<br>71-87.                                       | 0.9  | 73        |
| 60 | Rapid and High-Throughput pan-Orthopoxvirus Detection and Identification using PCR and Mass<br>Spectrometry. PLoS ONE, 2009, 4, e6342.  | 2.5  | 25        |
| 61 | Ibis T5000: a universal biosensor approach for microbiology. Nature Reviews Microbiology, 2008, 6,<br>553-558.  | 28.6 | 296       |
| 62 | Genotypic Evolution of Acinetobacter baumannii Strains in an Outbreak Associated With War Trauma.<br>Infection Control and Hospital Epidemiology, 2008, 29, 553-555.  | 1.8  | 24        |
| 63 | Rapid Detection and Molecular Serotyping of Adenovirus by Use of PCR Followed by Electrospray<br>Ionization Mass Spectrometry. Journal of Clinical Microbiology, 2008, 46, 644-651.   | 3.9  | 47        |
| 64 | High-Resolution Genotyping of <i>Campylobacter</i> Species by Use of PCR and High-Throughput Mass Spectrometry. Journal of Clinical Microbiology, 2008, 46, 1220-1225.  | 3.9  | 30        |
| 65 | Direct broad-range detection of alphaviruses in mosquito extracts. Virology, 2007, 368, 286-295.  | 2.4  | 84        |
| 66 | Rapid Identification of Emerging Infectious Agents Using PCR and Electrospray Ionization Mass Spectrometry. Annals of the New York Academy of Sciences, 2007, 1102, 109-120.  | 3.8  | 97        |
| 67 | Global Surveillance of Emerging Influenza Virus Genotypes by Mass Spectrometry. PLoS ONE, 2007, 2, e489.  | 2.5  | 122       |
| 68 | Analysis of Antibiotic Resistance Genes in Multidrug-Resistant Acinetobacter sp. Isolates from Military<br>and Civilian Patients Treated at the Walter Reed Army Medical Center. Antimicrobial Agents and<br>Chemotherapy, 2006, 50, 4114-4123. | 3.2  | 457       |
| 69 | Identification of Acinetobacter Species and Genotyping of Acinetobacter baumannii by Multilocus PCR<br>and Mass Spectrometry. Journal of Clinical Microbiology, 2006, 44, 2921-2932.  | 3.9  | 156       |
| 70 | Transmission Dynamics and Prospective Environmental Sampling of Adenovirus in a Military Recruit<br>Setting. Journal of Infectious Diseases, 2006, 194, 877-885.  | 4.0  | 112       |
| 71 | TIGER: the universal biosensor. International Journal of Mass Spectrometry, 2005, 242, 23-41.   | 1.5  | 140       |
| 72 | Identification of conserved regulatory RNA structures in prokaryotic metabolic pathway genes.<br>BioSystems, 2005, 80, 145-154.   | 2.0  | 17        |

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|----|---|------|-----------|
| 73 | Base composition analysis of human mitochondrial DNA using electrospray ionization mass spectrometry: A novel tool for the identification and differentiation of humans. Analytical Biochemistry, 2005, 344, 53-69.           | 2.4  | 45        |
| 74 | SAR by MS:  Discovery of a New Class of RNA-Binding Small Molecules for the Hepatitis C Virus:  Internal Ribosome Entry Site IIA Subdomain. Journal of Medicinal Chemistry, 2005, 48, 7099-7102.                              | 6.4  | 149       |
| 75 | The Microbial Rosetta Stone Database: a compilation of global and emerging infectious microorganisms and bioterrorist threat agents. BMC Microbiology, 2005, 5, 19.   | 3.3  | 78        |
| 76 | Rapid Identification of Emerging Pathogens: Coronavirus. Emerging Infectious Diseases, 2005, 11, 373-379.   | 4.3  | 94        |
| 77 | Rapid identification and strain-typing of respiratory pathogens for epidemic surveillance. Proceedings of the United States of America, 2005, 102, 8012-8017.   | 7.1  | 165       |
| 78 | The Microbial Rosetta Stone Database: A Common Structure for Microbial Biosecurity Threat Agents.<br>Journal of Forensic Sciences, 2005, 50, 1-6.   | 1.6  | 9         |
| 79 | Mass spectrometry provides accurate characterization of two genetic marker types in <i>Bacillus anthracis</i> . BioTechniques, 2004, 37, 642-651.   | 1.8  | 56        |
| 80 | Drugs targets and bioterrorism defense. Targets, 2003, 2, 35-37.  | 0.3  | 0         |
| 81 | Rev Response Elements (RRE) in Lentiviruses: An RNAMotif Algorithm-Based Strategy for RRE<br>Prediction. ChemInform, 2003, 34, no.  | 0.0  | 0         |
| 82 | Discovery of RNA structural elements using evolutionary computation. Nucleic Acids Research, 2002, 30, 5310-5317.   | 14.5 | 46        |
| 83 | Rev response elements (RRE) in lentiviruses: An RNAMotif algorithm-based strategy for RRE prediction.<br>Medicinal Research Reviews, 2002, 22, 617-636.   | 10.5 | 17        |
| 84 | RNAMotif, an RNA secondary structure definition and search algorithm. Nucleic Acids Research, 2001, 29, 4724-4735.  | 14.5 | 421       |
| 85 | De Novo Initiation of Viral RNA-Dependent RNA Synthesis. Virology, 2001, 287, 251-260.  | 2.4  | 199       |
| 86 | Structureâ^'Activity Relationships of Novel 2-Substituted Quinazoline Antibacterial Agents. Journal of<br>Medicinal Chemistry, 1999, 42, 4705-4713.   | 6.4  | 209       |
| 87 | Multiplexed Screening of Neutral Mass-Tagged RNA Targets against Ligand Libraries with Electrospray<br>Ionization FTICR MS:A A Paradigm for High-Throughput Affinity Screening. Analytical Chemistry, 1999, 71,<br>3436-3440. | 6.5  | 78        |
| 88 | PNA, antisense, and antimicrobials. Nature Biotechnology, 1998, 16, 332-332.  | 17.5 | 9         |
| 89 | Inhibition of Human Immunodeficiency Virus Type 1 Infection in SCID-hu Thy/Liv Mice by the<br>G-Quartet-Forming Oligonucleotide, ISIS 5320. Antimicrobial Agents and Chemotherapy, 1998, 42,<br>2113-2115.                    | 3.2  | 29        |
| 90 | Strategies for Rapid Deconvolution of Combinatorial Libraries:Â Comparative Evaluation Using a Model<br>System. Journal of Medicinal Chemistry, 1997, 40, 4386-4395.  | 6.4  | 20        |

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| 91  | Deconvolution of Combinatorial Libraries for Drug Discovery:Â Theoretical Comparison of Pooling<br>Strategies. Journal of Medicinal Chemistry, 1996, 39, 2710-2719.                                      | 6.4  | 42        |
| 92  | Deconvolution of Combinatorial Libraries for Drug Discovery:Â Experimental Comparison of Pooling<br>Strategies. Journal of Medicinal Chemistry, 1996, 39, 2720-2726.                                     | 6.4  | 75        |
| 93  | â€~Mutational SURF': A strategy for improving lead compounds identified from combinatorial libraries.<br>Bioorganic and Medicinal Chemistry, 1996, 4, 717-725.   | 3.0  | 6         |
| 94  | Combinatorial Drug Discovery: Which Methods Will Produce the Greatest Value?. Nature<br>Biotechnology, 1995, 13, 351-360.  | 17.5 | 70        |
| 95  | Novel Guanosine Quartet Structure Binds to the HIV Envelope and Inhibits Envelope Mediated Cell<br>Fusion. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 1117-1127.                              | 1.1  | 15        |
| 96  | Deconvolution of Combinatorial Libraries for Drug Discovery: A Model System. Journal of Medicinal Chemistry, 1995, 38, 344-352.  | 6.4  | 78        |
| 97  | Drug Leads from Combinatorial Phosphodiester Libraries. Journal of Medicinal Chemistry, 1995, 38, 4363-4366.   | 6.4  | 30        |
| 98  | Cholic acid-oligonucleotide conjugates for antisense applications. Bioorganic and Medicinal<br>Chemistry Letters, 1994, 4, 1053-1060.  | 2.2  | 30        |
| 99  | Potent and Specific Inhibition of HIV Envelope-Mediated Cell Fusion and Virus Binding by G<br>Quartet-Forming Oligonucleotide (ISIS 5320). AIDS Research and Human Retroviruses, 1994, 10,<br>1497-1506. | 1.1  | 85        |
| 100 | Oligodeoxynucleotides containing 2'-O-modified adenosine: Synthesis and effects on stability of DNA:RNA duplexes. Biochemistry, 1993, 32, 7832-7838.   | 2.5  | 214       |
| 101 | Rational screening of oligonucleotide combinatorial libraries for drug discovery. Nucleic Acids<br>Research, 1993, 21, 1853-1856.  | 14.5 | 78        |
| 102 | Implication of RNA structure on antisense oligonucleotide hybridization kinetics. Biochemistry, 1992, 31, 12055-12061.   | 2.5  | 236       |
| 103 | Iron(III) coordination chemistry of linear dihydroxyserine compounds derived from enterobactin.<br>Inorganic Chemistry, 1991, 30, 900-906.   | 4.0  | 64        |
| 104 | Effects of phosphorothioate capping on antivense oligonucleotide stability, hybridization and antiviral efficacy versus herpes simplex virus infection. Nucleic Acids Research, 1991, 19, 5743-5748.     | 14.5 | 238       |
| 105 | New Perspectives on the Structure and Function of Ubiquitin. Nature Biotechnology, 1990, 8, 209-215.   | 17.5 | 58        |
| 106 | Chromosomal mapping of the ubiquitin gene family inSaccharomyces cerevisiaeby pulsed field gel<br>electrophoresis. Nucleic Acids Research, 1989, 17, 3611-3612.  | 14.5 | 10        |
| 107 | Substituted complexes of enterobactin and synthetic analogs as probes of the ferric-enterobactin receptor in Escherichia coli. Journal of the American Chemical Society, 1988, 110, 2457-2464.           | 13.7 | 50        |
| 108 | A vector for construction of gene libraries and the expression of heterologous genes in<br>Saccharomyces cerevisiae. Plasmid, 1987, 17, 171-172.   | 1.4  | 4         |

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|-----|--|------|-----------|
| 109 | Cellular and molecular pharmacology of auranofin and related gold complexes. Biochemical<br>Pharmacology, 1986, 35, 3423-3431.   | 4.4  | 40        |
| 110 | Coordination chemistry of microbial iron transport compounds. 34. The pH-dependent reduction of ferric enterobactin probed by electrochemical methods and its implications for microbial iron transport. Journal of the American Chemical Society, 1985, 107, 6920-6923. | 13.7 | 44        |