# JosÃ© A Lemos

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 73 papers | 4,212 citations | 136950 32 h-index | 123424 61 g-index |
| 85 all docs | 85 docs citations | 85 times ranked | 3949 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stress Physiology of Lactic Acid Bacteria. Microbiology and Molecular Biology Reviews, 2016, 80, 837-890. | 6.6 | 487 |
| 2 | The Biology of <i>Streptococcus mutans</i>. Microbiology Spectrum, 2019, 7, . | 3.0 | 357 |
| 3 | A model of efficiency: stress tolerance by Streptococcus mutans. Microbiology (United Kingdom), 2008, 154, 3247-3255. | 1.8 | 261 |
| 4 | Many Means to a Common End: the Intricacies of (p)ppGpp Metabolism and Its Control of Bacterial Homeostasis. Journal of Bacteriology, 2015, 197, 1146-1156. | 2.2 | 187 |
| 5 | The Molecular Alarmone (p)ppGpp Mediates Stress Responses, Vancomycin Tolerance, and Virulence in <i>Enterococcus faecalis</i>. Journal of Bacteriology, 2009, 191, 2248-2256. | 2.2 | 176 |
| 6 | Streptococcus mutans: a new Gram-positive paradigm?. Microbiology (United Kingdom), 2013, 159, 436-445. | 1.8 | 174 |
| 7 | Three gene products govern (p)ppGpp production by <i>Streptococcus mutans</i>. Molecular Microbiology, 2007, 65, 1568-1581. | 2.5 | 146 |
| 8 | The Collagen-Binding Protein Cnm Is Required for Streptococcus mutans Adherence to and Intracellular Invasion of Human Coronary Artery Endothelial Cells. Infection and Immunity, 2011, 79, 2277-2284. | 2.2 | 144 |
| 9 | Two Spx Proteins Modulate Stress Tolerance, Survival, and Virulence in<i>Streptococcus mutans</i>. Journal of Bacteriology, 2010, 192, 2546-2556. | 2.2 | 109 |
| 10 | Dynamics of Streptococcus mutans Transcriptome in Response to Starch and Sucrose during Biofilm Development. PLoS ONE, 2010, 5, e13478. | 2.5 | 106 |
| 11 | Basal Levels of (p)ppGpp in Enterococcus faecalis: the Magic beyond the Stringent Response. MBio, 2013, 4, e00646-13. | 4.1 | 105 |
| 12 | Physiologic Effects of Forced Down-Regulation of dnaK and groEL Expression in Streptococcus mutans. Journal of Bacteriology, 2007, 189, 1582-1588. | 2.2 | 90 |
| 13 | From (p)ppGpp to (pp)pGpp: Characterization of Regulatory Effects of pGpp Synthesized by the Small Alarmone Synthetase of Enterococcus faecalis. Journal of Bacteriology, 2015, 197, 2908-2919. | 2.2 | 88 |
| 14 | Global Regulation by (p)ppGpp and CodY in<i>Streptococcus mutans</i>. Journal of Bacteriology, 2008, 190, 5291-5299. | 2.2 | 87 |
| 15 | Phenotypic Heterogeneity of Genomically-Diverse Isolates of Streptococcus mutans. PLoS ONE, 2013, 8, e61358. | 2.5 | 87 |
| 16 | Role of Clp Proteins in Expression of Virulence Properties of<i>Streptococcus mutans</i>. Journal of Bacteriology, 2009, 191, 2060-2068. | 2.2 | 84 |
| 17 | Role of (p)ppGpp in Biofilm Formation by Enterococcus faecalis. Applied and Environmental Microbiology, 2012, 78, 1627-1630. | 3.1 | 75 |
| 18 | Simultaneous spatiotemporal mapping of in situ pH and bacterial activity within an intact 3D microcolony structure. Scientific Reports, 2016, 6, 32841. | 3.3 | 72 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Role of RelA of <i>Streptococcus mutans</i> in Global Control of Gene Expression. Journal of Bacteriology, 2008, 190, 28-36. | 2.2 | 67 |
| 20 | Protocols to Study the Physiology of Oral Biofilms. Methods in Molecular Biology, 2010, 666, 87-102. | 0.9 | 65 |
| 21 | Manganese acquisition is essential for virulence of Enterococcus faecalis. PLoS Pathogens, 2018, 14, e1007102. | 4.7 | 63 |
| 22 | Adaptation to Adversity: the Intermingling of Stress Tolerance and Pathogenesis in Enterococci. Microbiology and Molecular Biology Reviews, 2019, 83, . | 6.6 | 58 |
| 23 | Global transcriptional analysis of the stringent response in Enterococcus faecalis. Microbiology (United Kingdom), 2012, 158, 1994-2004. | 1.8 | 57 |
| 24 | Novel Antibiofilm Chemotherapy Targets Exopolysaccharide Synthesis and Stress Tolerance in Streptococcus mutans To Modulate Virulence Expression <i>In Vivo</i>. Antimicrobial Agents and Chemotherapy, 2012, 56, 6201-6211. | 3.2 | 55 |
| 25 | The Spx Regulator Modulates Stress Responses and Virulence in Enterococcus faecalis. Infection and Immunity, 2012, 80, 2265-2275. | 2.2 | 55 |
| 26 | Collagenâ€binding proteins of <i>Streptococcus mutans</i> and related streptococci. Molecular Oral Microbiology, 2017, 32, 89-106. | 2.7 | 50 |
| 27 | The Collagen Binding Protein Cnm Contributes to Oral Colonization and Cariogenicity of Streptococcus mutans OMZ175. Infection and Immunity, 2015, 83, 2001-2010. | 2.2 | 48 |
| 28 | A Hypothetical Protein of Streptococcus mutans Is Critical for Biofilm Formation. Infection and Immunity, 2005, 73, 3147-3151. | 2.2 | 44 |
| 29 | Manganese Uptake, Mediated by SloABC and MntH, Is Essential for the Fitness of Streptococcus mutans. MSphere, 2020, 5, . | 2.9 | 42 |
| 30 | Transcriptome responses of Streptococcus mutans to peroxide stress: identification of novel antioxidant pathways regulated by Spx. Scientific Reports, 2017, 7, 16018. | 3.3 | 39 |
| 31 | Transcription of Oxidative Stress Genes Is Directly Activated by SpxA1 and, to a Lesser Extent, by SpxA2 in Streptococcus mutans. Journal of Bacteriology, 2015, 197, 2160-2170. | 2.2 | 38 |
| 32 | Modification of Streptococcus mutans Cnm by PgfS Contributes to Adhesion, Endothelial Cell Invasion, and Virulence. Journal of Bacteriology, 2014, 196, 2789-2797. | 2.2 | 36 |
| 33 | Transcriptome Analysis of Enterococcus faecalis during Mammalian Infection Shows Cells Undergo Adaptation and Exist in a Stringent Response State. PLoS ONE, 2014, 9, e115839. | 2.5 | 35 |
| 34 | clpB, a class III heat-shock gene regulated by CtsR, is involved in thermotolerance and virulence of Enterococcus faecalis. Microbiology (United Kingdom), 2011, 157, 656-665. | 1.8 | 32 |
| 35 | Transcriptome analysis reveals that ClpXP proteolysis controls key virulence properties of Streptococcus mutans. Microbiology (United Kingdom), 2011, 157, 2880-2890. | 1.8 | 30 |
| 36 | Transcriptional and Phenotypic Characterization of Novel Spx-Regulated Genes in Streptococcus mutans. PLoS ONE, 2015, 10, e0124969. | 2.5 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Heterologous expression of<i>Streptococcus mutans</i>Cnm in<i>Lactococcus lactis</i>promotes intracellular invasion, adhesion to human cardiac tissues and virulence. Virulence, 2017, 8, 18-29. | 4.4 | 28 |
| 38 | The Cell Wall-Targeting Antibiotic Stimulon of Enterococcus faecalis. PLoS ONE, 2013, 8, e64875. | 2.5 | 27 |
| 39 | Transcriptional profile of glucoseâ€shocked and acidâ€adapted strains of <i>Streptococcus mutans</i>. Molecular Oral Microbiology, 2015, 30, 496-517. | 2.7 | 27 |
| 40 | Cnm is a major virulence factor of invasive <i><scp>S</scp>treptococcus mutans</i> and part of a conserved threeâ€gene locus. Molecular Oral Microbiology, 2014, 29, 11-23. | 2.7 | 24 |
| 41 | Inactivation of the <i>spxA1</i> or <i>spxA2</i> gene of <i>Streptococcus mutans</i> decreases virulence in the rat caries model. Molecular Oral Microbiology, 2017, 32, 142-153. | 2.7 | 24 |
| 42 | Survival of the Fittest: The Relationship of (p)ppGpp With Bacterial Virulence. Frontiers in Microbiology, 2020, 11, 601417. | 3.5 | 24 |
| 43 | Cnm is a major virulence factor of invasive<i>Streptococcus mutans</i>and part of a conserved three-gene locus. Molecular Oral Microbiology, 2014, 29, 11-23. | 2.7 | 24 |
| 44 | Osmotic stress responses ofStreptococcus mutansUA159. FEMS Microbiology Letters, 2006, 255, 240-246. | 1.8 | 22 |
| 45 | Characterization of the Streptococcus sobrinus acid-stress response by interspecies microarrays and proteomics. Molecular Oral Microbiology, 2010, 25, 331-342. | 2.7 | 21 |
| 46 | A Modular Synthetic Route Involving <i>N</i>-Aryl-2-nitrosoaniline Intermediates Leads to a New Series of 3-Substituted Halogenated Phenazine Antibacterial Agents. Journal of Medicinal Chemistry, 2021, 64, 7275-7295. | 6.4 | 21 |
| 47 | Basal levels of (p)ppGpp differentially affect the pathogenesis of infective endocarditis in Enterococcus faecalis. Microbiology (United Kingdom), 2018, 164, 1254-1265. | 1.8 | 21 |
| 48 | Opportunities for Disrupting Cariogenic Biofilms. Advances in Dental Research, 2009, 21, 17-20. | 3.6 | 18 |
| 49 | Regulatory circuits controlling Spx levels in <i>Streptococcus mutans</i>. Molecular Microbiology, 2020, 114, 109-126. | 2.5 | 17 |
| 50 | Biofilm Assays on Fibrinogen-coated Silicone Catheters and 96-well Polystyrene Plates. Bio-protocol, 2019, 9, . | 0.4 | 17 |
| 51 | The Biology ofStreptococcus mutans. , 2019, , 435-448. | | 16 |
| 52 | Increased Oxidative Stress Tolerance of a Spontaneously Occurring <i>perR</i> Gene Mutation in Streptococcus mutans UA159. Journal of Bacteriology, 2021, 203, . | 2.2 | 16 |
| 53 | Disruption of a Novel Iron Transport System Reverses Oxidative Stress Phenotypes of a <i>dpr</i> Mutant Strain of Streptococcus mutans. Journal of Bacteriology, 2018, 200, . | 2.2 | 15 |
| 54 | Biology of Oral Streptococci. , 0, , 426-434. | | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Zinc import mediated by AdcABC is critical for colonization of the dental biofilm by <i>Streptococcus mutans</i> in an animal model. Molecular Oral Microbiology, 2021, 36, 214-224. | 2.7 | 14 |
| 56 | The CtsR regulator controls the expression of clpC, clpE and clpP and is required for the virulence of Enterococcus faecalis in an invertebrate model. Antonie Van Leeuwenhoek, 2016, 109, 1253-1259. | 1.7 | 13 |
| 57 | Enterococcus faecalis Antagonizes Pseudomonas aeruginosa Growth in Mixed-Species Interactions. Journal of Bacteriology, 2022, 204, . | 2.2 | 13 |
| 58 | CovR and VicRKX Regulate Transcription of the Collagen Binding Protein Cnm of Streptococcus mutans. Journal of Bacteriology, 2018, 200, . | 2.2 | 12 |
| 59 | Detection of Streptococcus mutans in symptomatic and asymptomatic infected root canals. Clinical Oral Investigations, 2021, 25, 3535-3542. | 3.0 | 12 |
| 60 | Characterization of the pgf operon involved in the posttranslational modification of Streptococcus mutans surface proteins. Scientific Reports, 2018, 8, 4705. | 3.3 | 11 |
| 61 | <i>PepO</i> is a target of the two-component systems VicRK and CovR required for systemic virulence of <i>Streptococcus mutans</i>. Virulence, 2020, 11, 521-536. | 4.4 | 11 |
| 62 | Deficiency of MecA in Streptococcus mutans Causes Major Defects in Cell Envelope Biogenesis, Cell Division, and Biofilm Formation. Frontiers in Microbiology, 2018, 9, 2130. | 3.5 | 10 |
| 63 | c-di-AMP Is Essential for the Virulence of <i>Enterococcus faecalis</i>. Infection and Immunity, 2021, 89, e0036521. | 2.2 | 9 |
| 64 | Phenotypic and Genotypic Characterization of Streptococcus mutans Strains Isolated from Endodontic Infections. Journal of Endodontics, 2020, 46, 1876-1883. | 3.1 | 8 |
| 65 | Amyloid Aggregation of Streptococcus mutans Cnm Influences Its Collagen-Binding Activity. Applied and Environmental Microbiology, 2021, 87, e0114921. | 3.1 | 8 |
| 66 | The AdcACB/AdcAII system is essential for zinc homeostasis and an important contributor of <i>Enterococcus faecalis</i> virulence. Virulence, 2022, 13, 592-608. | 4.4 | 7 |
| 67 | Whole genome sequence and phenotypic characterization of a Cbm<sup>+</sup> serotype <i>e</i> strain of <i>Streptococcus mutans</i>. Molecular Oral Microbiology, 2018, 33, 257-269. | 2.7 | 4 |
| 68 | Stress Responses of Streptococci. , 2011, , 251-303. | | 4 |
| 69 | Disruption of the <i>adh</i> (Acetoin Dehydrogenase) Operon Has Wide-Ranging Effects on Streptococcus mutans Growth and Stress Response. Journal of Bacteriology, 2022, 204, jb0057821. | 2.2 | 3 |
| 70 | A New Perspective of an Old Villain: Revisiting Biomarkers of Caries Development. EBioMedicine, 2017, 25, 14-15. | 6.1 | 2 |
| 71 | Ex vivo Model of Human Aortic Valve Bacterial Colonization. Bio-protocol, 2017, 7, . | 0.4 | 1 |
| 72 | Methods for Using the Galleria mellonella Invertebrate Model to Probe Enterococcus faecalis Pathogenicity. Methods in Molecular Biology, 2022, , 177-183. | 0.9 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Lectin Binding Analysis of Streptococcus mutans Glycoproteins. Bio-protocol, 2015, 5, . | 0.4 | 0 |