# Emmanuelle Maguin

List of Publications by Year
in descending order



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|---|---|---|---|
| 110 papers | 14,937 citations | 66343 42 h-index | 26613 107 g-index |
| 116 all docs | 116 docs citations | 116 times ranked | 19011 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enterotypes of the human gut microbiome. Nature, 2011, 473, 174-180. | 27.8 | 5,800 |
| 2 | Dietary intervention impact on gut microbial gene richness. Nature, 2013, 500, 585-588. | 27.8 | 1,485 |
| 3 | Microbiome definition re-visited: old concepts and new challenges. Microbiome, 2020, 8, 103. | 11.1 | 903 |
| 4 | Stress responses in lactic acid bacteria. Antonie Van Leeuwenhoek, 2002, 82, 187-216. | 1.7 | 598 |
| 5 | Entry of Listeria monocytogenes into hepatocytes requires expression of InIB, a surface protein of the internalin multigene family. Molecular Microbiology, 1995, 16, 251-261. | 2.5 | 464 |
| 6 | A reference gene catalogue of the pig gut microbiome. Nature Microbiology, 2016, 1, 16161. | 13.3 | 416 |
| 7 | The complete genome sequence of<i>Lactobacillus bulgaricus</i>reveals extensive and ongoing reductive evolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9274-9279. | 7.1 | 382 |
| 8 | Plasmid Addiction Genes of Bacteriophage P1: doc, which Causes Cell Death on Curing of Prophage, and phd, which Prevents Host Death when Prophage is Retained. Journal of Molecular Biology, 1993, 233, 414-428. | 4.2 | 263 |
| 9 | An M protein with a single C repeat prevents phagocytosis of Streptococcus pyogenes: use of a temperature-sensitive shuttle vector to deliver homologous sequences to the chromosome of S. pyogenes. Molecular Microbiology, 1993, 8, 809-819. | 2.5 | 228 |
| 10 | Stress responses in lactic acid bacteria. Antonie Van Leeuwenhoek, 2002, 82, 187-216. | 1.7 | 180 |
| 11 | Indole, a Signaling Molecule Produced by the Gut Microbiota, Negatively Impacts Emotional Behaviors in Rats. Frontiers in Neuroscience, 2018, 12, 216. | 2.8 | 179 |
| 12 | Acid- and multistress-resistant mutants of Lactococcus lactisâ€ƒ: identification of intracellular stress signals. Molecular Microbiology, 2002, 35, 517-528. | 2.5 | 178 |
| 13 | Lactococcus lactis and stress. Antonie Van Leeuwenhoek, 1996, 70, 243-251. | 1.7 | 158 |
| 14 | Microbial impact on cholesterol and bile acid metabolism: current status and future prospects. Journal of Lipid Research, 2019, 60, 323-332. | 4.2 | 149 |
| 15 | Postgenomic Analysis of <i>Streptococcus thermophilus</i> Cocultivated in Milk with <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> : Involvement of Nitrogen, Purine, and Iron Metabolism. Applied and Environmental Microbiology, 2009, 75, 2062-2073. | 3.1 | 130 |
| 16 | Beneficial metabolic effects of selected probiotics on dietâ€induced obesity and insulin resistance in mice are associated with improvement of dysbiotic gut microbiota. Environmental Microbiology, 2016, 18, 1484-1497. | 3.8 | 127 |
| 17 | The intestinal microbiota regulates host cholesterol homeostasis. BMC Biology, 2019, 17, 94. | 3.8 | 125 |
| 18 | Prediction of surface exposed proteins in <b><i>Streptococcus pyogenes</i></b>, with a potential application to other Gramâ€positive bacteria. Proteomics, 2009, 9, 61-73. | 2.2 | 123 |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 19 | Reduced obesity, diabetes, and steatosis upon cinnamon and grape pomace are associated with changes in gut microbiota and markers of gut barrier. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E334-E352. | 3.5 | 119 |
| 20 | Proteomic characterization of the acid tolerance response inLactococcus lactis MG1363. Proteomics, 2005, 5, 4794-4807. | 2.2 | 98 |
| 21 | Mucosal-associated invariant T cells promote inflammation and intestinal dysbiosis leading to metabolic dysfunction during obesity. Nature Communications, 2020, 11, 3755. | 12.8 | 97 |
| 22 | Rerouting of pyruvate metabolism during acid adaptation in <b><i>Lactobacillus bulgaricus</i></b>. Proteomics, 2008, 8, 3154-3163. | 2.2 | 93 |
| 23 | Electrotransformation of <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> and <i>L. delbrueckii</i> subsp. <i>lactis</i> with Various Plasmids. Applied and Environmental Microbiology, 2002, 68, 46-52. | 3.1 | 90 |
| 24 | Production of a Heterologous Nonheme Catalase by Lactobacillus casei : an Efficient Tool for Removal of H 2 O 2 and Protection of Lactobacillus bulgaricus from Oxidative Stress in Milk. Applied and Environmental Microbiology, 2006, 72, 5143-5149. | 3.1 | 90 |
| 25 | Physiological Study of Lactobacillus delbrueckii subsp. bulgaricus Strains in a Novel Chemically Defined Medium. Applied and Environmental Microbiology, 2000, 66, 5306-5311. | 3.1 | 86 |
| 26 | AGMIAL: implementing an annotation strategy for prokaryote genomes as a distributed system. Nucleic Acids Research, 2006, 34, 3533-3545. | 14.5 | 84 |
| 27 | Identification and Disruption of Two Discrete Loci Encoding Hyaluronic Acid Capsule Biosynthesis GeneshasA, hasB, and hasC inStreptococcus uberis. Infection and Immunity, 2001, 69, 392-399. | 2.2 | 82 |
| 28 | Isolation and Characterization of a Plasmid fromLactobacillus fermentumConferring Erythromycin Resistance. Plasmid, 1997, 37, 199-203. | 1.4 | 81 |
| 29 | Identification of stress-inducible proteins inLactobacillus delbrueckii subsp.bulgaricus. Electrophoresis, 2000, 21, 2557-2561. | 2.4 | 78 |
| 30 | Characterization of urease genes cluster of Streptococcus thermophilus. Journal of Applied Microbiology, 2004, 96, 209-219. | 3.1 | 78 |
| 31 | Glyphosate and glyphosateâ€based herbicide exposure during the peripartum period affects maternal brain plasticity, maternal behaviour and microbiome. Journal of Neuroendocrinology, 2019, 31, e12731. | 2.6 | 69 |
| 32 | Anti-inflammatory properties of dairy lactobacilli. Inflammatory Bowel Diseases, 2012, 18, 657-666. | 1.9 | 68 |
| 33 | Comparison of the thickening properties of fourLactobacillus delbrueckiisubsp.bulgaricusstrains and physicochemical characterization of their exopolysaccharides. FEMS Microbiology Letters, 2003, 221, 285-291. | 1.8 | 66 |
| 34 | Lactic acid bacteria and proteomics: current knowledge and perspectives. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 771, 329-342. | 2.3 | 63 |
| 35 | Fecal Serine Protease Profiling in Inflammatory Bowel Diseases. Frontiers in Cellular and Infection Microbiology, 2020, 10, 21. | 3.9 | 62 |
| 36 | The acid tolerant l-arabinose isomerase from the food grade Lactobacillus sakei 23K is an attractive d-tagatose producer. Bioresource Technology, 2010, 101, 9171-9177. | 9.6 | 60 |

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|---|---|---|---|
| 37 | Characterization of glucansucrase and dextran from Weissella sp. TN610 with potential as safe food additives. International Journal of Biological Macromolecules, 2013, 52, 125-132. | 7.5 | 60 |
| 38 | Combining selected immunomodulatory <i>Propionibacterium freudenreichii</i> and <i>Lactobacillus delbrueckii</i> strains: Reverse engineering development of an antiâ€inflammatory cheese. Molecular Nutrition and Food Research, 2016, 60, 935-948. | 3.3 | 60 |
| 39 | Lactobacillus delbrueckii ssp. lactis and ssp. bulgaricus: a chronicle of evolution in action. BMC Genomics, 2014, 15, 407. | 2.8 | 59 |
| 40 | Microbiome innovations for a sustainable future. Nature Microbiology, 2021, 6, 138-142. | 13.3 | 53 |
| 41 | Physiology of <b><i>Streptococcus thermophilus</i></b> during the late stage of milk fermentation with special regard to sulfur aminoâ€acid metabolism. Proteomics, 2008, 8, 4273-4286. | 2.2 | 50 |
| 42 | Production of growth-inhibiting factors by Lactobacillus delbrueckii. Journal of Applied Microbiology, 2001, 91, 147-153. | 3.1 | 49 |
| 43 | Local and Systemic Immune Mechanisms Underlying the Anti-Colitis Effects of the Dairy Bacterium Lactobacillus delbrueckii. PLoS ONE, 2014, 9, e85923. | 2.5 | 45 |
| 44 | Rational design of Bacillus stearothermophilus US100 l-arabinose isomerase: Potential applications for d-tagatose production. Biochimie, 2009, 91, 650-653. | 2.6 | 44 |
| 45 | Production of d-tagatose, a low caloric sweetener during milk fermentation using l-arabinose isomerase. Bioresource Technology, 2011, 102, 3309-3315. | 9.6 | 43 |
| 46 | In Vitro Characterization of Gut Microbiota-Derived Commensal Strains: Selection of Parabacteroides distasonis Strains Alleviating TNBS-Induced Colitis in Mice. Cells, 2020, 9, 2104. | 4.1 | 43 |
| 47 | Conservation of key elements of natural competence inLactococcus lactisssp.. FEMS Microbiology Letters, 2006, 257, 32-42. | 1.8 | 37 |
| 48 | Efficient bioconversion of lactose in milk and whey: immobilization and biochemical characterization of a Î²-galactosidase from the dairy Streptococcus thermophilus LMD9 strain. Research in Microbiology, 2010, 161, 515-525. | 2.1 | 36 |
| 49 | Genome Sequence of â€œ <i>Candidatus</i> Arthromitusâ€sp. Strain SFB-Mouse-NL, a Commensal Bacterium with a Key Role in Postnatal Maturation of Gut Immune Functions. Genome Announcements, 2014, 2, . | 0.8 | 35 |
| 50 | A catalog of microbial genes from the bovine rumen unveils a specialized and diverse biomass-degrading environment. GigaScience, 2020, 9, . | 6.4 | 35 |
| 51 | Transcriptional analysis of the cyclopropane fatty acid synthase gene ofLactococcus lactisMG1363 at low pH. FEMS Microbiology Letters, 2005, 250, 189-194. | 1.8 | 33 |
| 52 | Proteome phenotyping of acid stress-resistant mutants ofLactococcus lactis MG1363. Proteomics, 2007, 7, 2038-2046. | 2.2 | 33 |
| 53 | Siropins, novel serine protease inhibitors from gut microbiota acting on human proteases involved in inflammatory bowel diseases. Microbial Cell Factories, 2016, 15, 201. | 4.0 | 33 |
| 54 | Bile Salt Hydrolases: At the Crossroads of Microbiota and Human Health. Microorganisms, 2021, 9, 1122. | 3.6 | 33 |

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| 55 | Development of Microbiome Biobanks â€“ Challenges and Opportunities. Trends in Microbiology, 2021, 29, 89-92. | 7.7 | 31 |
| 56 | Extensive horizontal transfer of core genome genes between two Lactobacillus species found in the gastrointestinal tract. BMC Evolutionary Biology, 2007, 7, 141. | 3.2 | 29 |
| 57 | Induction of Heavy-Metal-Transporting CPX-Type ATPases during Acid Adaptation in Lactobacillus bulgaricus. Applied and Environmental Microbiology, 2006, 72, 7445-7454. | 3.1 | 28 |
| 58 | The acid-tolerant L-arabinose isomerase from the mesophilic Shewanella sp. ANA-3 is highly active at low temperatures. Microbial Cell Factories, 2011, 10, 96. | 4.0 | 28 |
| 59 | Microbial Reduction of Cholesterol to Coprostanol: An Old Concept and New Insights. Catalysts, 2019, 9, 167. | 3.5 | 28 |
| 60 | Stress responses in lactic acid bacteria. , 2002, , 187-216. | | 28 |
| 61 | Development of an EfficientIn VivoSystem (Pjunc-TpaseIS1223) for Random Transposon Mutagenesis of Lactobacillus casei. Applied and Environmental Microbiology, 2012, 78, 5417-5423. | 3.1 | 27 |
| 62 | Heterologous expression and optimization using experimental designs allowed highly efficient production of the PHY US417 phytase in Bacillus subtilis 168. AMB Express, 2012, 2, 10. | 3.0 | 27 |
| 63 | Crucial role of Pro 257 in the thermostability of Bacillus phytases: Biochemical and structural investigation. International Journal of Biological Macromolecules, 2013, 54, 9-15. | 7.5 | 26 |
| 64 | Genetic structure and transcriptional analysis of the arginine deiminase (ADI) cluster inLactococcus lactisMG1363. Canadian Journal of Microbiology, 2006, 52, 617-622. | 1.7 | 25 |
| 65 | The attractive recombinant phytase from Bacillus licheniformis: biochemical and molecular characterization. Applied Microbiology and Biotechnology, 2014, 98, 5937-5947. | 3.6 | 24 |
| 66 | Exploring the acidotolerance of Î²-galactosidase from Lactobacillus delbrueckii subsp. bulgaricus: an attractive enzyme for lactose bioconversion. Research in Microbiology, 2009, 160, 775-784. | 2.1 | 23 |
| 67 | Discriminatory antibacterial effects of calix[n]arene capped silver nanoparticles with regard to Gram positive and Gram negative bacteria. Chemical Communications, 2013, 49, 7150. | 4.1 | 21 |
| 68 | Serine protease inhibitors and human wellbeing interplay: new insights for old friends. PeerJ, 2019, 7, e7224. | 2.0 | 20 |
| 69 | Multiple Selection Criteria for Probiotic Strains with High Potential for Obesity Management. Nutrients, 2021, 13, 713. | 4.1 | 19 |
| 70 | Bile Acids: Key Players in Inflammatory Bowel Diseases?. Cells, 2022, 11, 901. | 4.1 | 19 |
| 71 | The acid tolerant and cold-active Î²-galactosidase from Lactococcus lactis strain is an attractive biocatalyst for lactose hydrolysis. Antonie Van Leeuwenhoek, 2013, 103, 701-712. | 1.7 | 18 |
| 72 | Serine proteases at the cutting edge of IBD: Focus on gastrointestinal inflammation. FASEB Journal, 2020, 34, 7270-7282. | 0.5 | 18 |

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| 73 | Exploring the Bacterial Impact on Cholesterol Cycle: A Numerical Study. Frontiers in Microbiology, 2020, 11, 1121. | 3.5 | 17 |
| 74 | Identification of New Potential Biotherapeutics from Human Gut Microbiota-Derived Bacteria. Microorganisms, 2021, 9, 565. | 3.6 | 16 |
| 75 | csp-like genes ofLactobacillus delbrueckiissp.bulgaricusand their response to cold shock. FEMS Microbiology Letters, 2003, 226, 323-330. | 1.8 | 15 |
| 76 | Bacillus phytases: Current status and future prospects. Bioengineered, 2015, 6, 233-236. | 3.2 | 15 |
| 77 | Proteomic analysis of spontaneous mutants of <i><scp>L</scp>actococcus lactis</i>: Involvement of <scp>GAPDH</scp> and arginine deiminase pathway in H<sub>2</sub>O<sub>2</sub> resistance. Proteomics, 2012, 12, 1792-1805. | 2.2 | 14 |
| 78 | High-Throughput System for the Presentation of Secreted and Surface-Exposed Proteins from Gram-Positive Bacteria in Functional Metagenomics Studies. PLoS ONE, 2013, 8, e65956. | 2.5 | 14 |
| 79 | Transposition in Lactobacillus delbrueckii subsp. bulgaricus: identification of two thermosensitive replicons and two functional insertion sequences. Microbiology (United Kingdom), 2003, 149, 1503-1511. | 1.8 | 13 |
| 80 | P1016 The pigâ€™s other genome: A reference gene catalog of the gut microbiome as a new resource for deep studies of the interplay between the host and its microbiome. Journal of Animal Science, 2016, 94, 22-22. | 0.5 | 13 |
| 81 | Bacterial L-Arabinose Isomerases: Industrial Application for D-Tagatose Production. Recent Patents on DNA & Gene Sequences, 2011, 5, 194-201. | 0.7 | 13 |
| 82 | The secreted l-arabinose isomerase displays anti-hyperglycemic effects in mice. Microbial Cell Factories, 2015, 14, 204. | 4.0 | 12 |
| 83 | Highly efficient production of the staphylococcal nuclease reporter in<i>Lactobacillus bulgaricus</i>governed by the promoter of the<i>hlbA</i>gene. FEMS Microbiology Letters, 2009, 293, 232-239. | 1.8 | 11 |
| 84 | Selection of Lactobacillus plantarum TN627 as a new probiotic candidate based on in vitro functional properties. Biotechnology and Bioprocess Engineering, 2011, 16, 1115-1123. | 2.6 | 11 |
| 85 | Fatâ€Shaped Microbiota Affects Lipid Metabolism, Liver Steatosis, and Intestinal Homeostasis in Mice Fed a Lowâ€Protein Diet. Molecular Nutrition and Food Research, 2020, 64, e1900835. | 3.3 | 11 |
| 86 | Digestive Inflammation: Role of Proteolytic Dysregulation. International Journal of Molecular Sciences, 2021, 22, 2817. | 4.1 | 10 |
| 87 | Gut Serpinome: Emerging Evidence in IBD. International Journal of Molecular Sciences, 2021, 22, 6088. | 4.1 | 10 |
| 88 | Microbiome Research as an Effective Driver of Success Stories in Agrifood Systems â€" A Selection of Case Studies. Frontiers in Microbiology, 0, 13, . | 3.5 | 10 |
| 89 | Supramolecular stabilization of acid tolerant l-arabinose isomerase from Lactobacillus sakei. Chemical Communications, 2011, 47, 12307. | 4.1 | 9 |
| 90 | The Enterococcus faecalis virulence factor ElrA interacts with the human Four-and-a-Half LIM Domains Protein 2. Scientific Reports, 2017, 7, 4581. | 3.3 | 9 |

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| 91 | Functional Comparison of Bacteria from the Human Gut and Closely Related Non-Gut Bacteria Reveals the Importance of Conjugation and a Paucity of Motility and Chemotaxis Functions in the Gut Environment. PLoS ONE, 2016, 11, e0159030. | 2.5 | 9 |
| 92 | Patented Biotechnological Applications of Serpin: an Update. Recent Patents on DNA & Gene Sequences, 2013, 7, 137-143. | 0.7 | 8 |
| 93 | Tolerogenic Dendritic Cells Shape a Transmissible Gut Microbiota That Protects From Metabolic Diseases. Diabetes, 2021, 70, 2067-2080. | 0.6 | 7 |
| 94 | Domestic Environment and Gut Microbiota: Lessons from Pet Dogs. Microorganisms, 2022, 10, 949. | 3.6 | 7 |
| 95 | Unprecedented large inverted repeats at the replication terminus of circular bacterial chromosomes suggest a novel mode of chromosome rescue. Scientific Reports, 2017, 7, 44331. | 3.3 | 6 |
| 96 | Sildenafil citrate long-term treatment effects on cardiovascular reactivity in a SHR experimental model of metabolic syndrome. PLoS ONE, 2019, 14, e0223914. | 2.5 | 6 |
| 97 | <i>para</i>-Sulphonato-calix[<i>n</i>]arene capped silver nanoparticles challenge the catalytic efficiency and the stability of a novel human gut serine protease inhibitor. Chemical Communications, 2019, 55, 8935-8938. | 4.1 | 5 |
| 98 | Identification de protÃ©ines de stress chez Lactobacillus delbrueckii bulgaricus par Ã©lectrophorÃ¨se bidimensionnelle. Dairy Science and Technology, 2001, 81, 317-325. | 0.9 | 5 |
| 99 | Genome Sequence of Lactobacillus delbrueckii subsp. <i>lactis</i> CNRZ327, a Dairy Bacterium with Anti-Inflammatory Properties. Genome Announcements, 2014, 2, . | 0.8 | 4 |
| 100 | Biotechnological Applications of Serine Proteases: A Patent Review. Recent Patents on Biotechnology, 2018, 12, 280-287. | 0.8 | 4 |
| 101 | SP-1, a Serine Protease from the Gut Microbiota, Influences Colitis and Drives Intestinal Dysbiosis in Mice. Cells, 2021, 10, 2658. | 4.1 | 4 |
| 102 | Testing of a whole genome PCR scanning approach to identify genomic variability in four different species of lactic acid bacteria. Research in Microbiology, 2006, 157, 386-394. | 2.1 | 3 |
| 103 | Effect of a <i>guaA</i> mutation on the acid tolerance of <i>L. lactis</i>. Sciences Des Aliments, 2002, 22, 67-74. | 0.2 | 3 |
| 104 | Recent Patents on Hypocholesterolemic Therapeutic Strategies: An Update. Recent Advances in DNA & Gene Sequences, 2016, 9, 36-44. | 0.7 | 2 |
| 105 | Mutants de Lactococcus lactis rÃ©sistants Ã l'aciditÃ©. Dairy Science and Technology, 1998, 78, 157-163. | 0.9 | 1 |
| 106 | Exopolysaccharides de Lactobacillus delbrueckii subsp. bulgaricus. Sciences Des Aliments, 2002, 22, 143-149. | 0.2 | 1 |
| 107 | Functional Metagenomics of Bacterial-Cell Crosstalk. , 2013, , 1-6. | | 0 |
| 108 | Relevant Patented Biotechnological Applications of Ecotin: An Update. Recent Patents on Biotechnology, 2018, 12, 233-238. | 0.8 | 0 |

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|---|---|---|---|
| 109 | Targeting the Gut Microbiota in Metabolic Disorders and Juvenile Growth. , 2019, , 441-462. | | 0 |
| 110 | Editorial: Probiotic Trigger Molecules in Action. Frontiers in Microbiology, 2021, 12, 789209. | 3.5 | 0 |