Marie-Paule Mingeot-Leclercq

List of Publications by Year
in descending order

98 papers	5,362 citations	76326 40 h-index	88630 70 g-index
99 all docs	99 docs citations	99 times ranked	6793 citing authors

#	Article	IF	Citations
1	Aminoglycosides: Activity and Resistance. Antimicrobial Agents and Chemotherapy, 1999, 43, 727-737.	3.2	762
2	Pharmacodynamic Evaluation of the Intracellular Activities of Antibiotics against Staphylococcus aureus in a Model of THP-1 Macrophages. Antimicrobial Agents and Chemotherapy, 2006, 50, 841-851.	3.2	228
3	Atomic force microscopy of supported lipid bilayers. Nature Protocols, 2008, 3, 1654-1659.	12.0	186
4	Comparative Stability Studies of Antipseudomonal Î²-Lactams for Potential Administration through Portable Elastomeric Pumps (Home Therapy for Cystic Fibrosis Patients) and Motor-Operated Syringes (Intensive Care Units). Antimicrobial Agents and Chemotherapy, 2002, 46, 2327-2332.	3.2	178
5	The amphiphilic nature of saponins and their effects on artificial and biological membranes and potential consequences for red blood and cancer cells. Organic and Biomolecular Chemistry, 2014, 12, 8803-8822.	2.8	172
6	Renal cell apoptosis induced by nephrotoxic drugs: cellular and molecular mechanisms and potential approaches to modulation. Apoptosis: an International Journal on Programmed Cell Death, 2008, 13, 11-32.	4.9	167
7	The bacterial envelope as a target for novel anti-MRSA antibiotics. Trends in Pharmacological Sciences, 2008, 29, 124-134.	8.7	129
8	Gentamicin-induced apoptosis in LLC-PK1 cells: Involvement of lysosomes and mitochondria. Toxicology and Applied Pharmacology, 2005, 206, 321-333.	2.8	124
9	Apoptosis in Renal Proximal Tubules of Rats Treated with Low Doses of Aminoglycosides. Antimicrobial Agents and Chemotherapy, 2000, 44, 665-675.	3.2	116
10	Comparative Intracellular (THP-1 Macrophage) and Extracellular Activities of Î²-Lactams, Azithromycin, Gentamicin, and Fluoroquinolones against Listeria monocytogenes at Clinically Relevant Concentrations. Antimicrobial Agents and Chemotherapy, 2002, 46, 2095-2103.	3.2	116
11	Bacterial lipid membranes as promising targets to fight antimicrobial resistance, molecular foundations and illustration through the renewal of aminoglycoside antibiotics and emergence of amphiphilic aminoglycosides. MedChemComm, 2016, 7, 586-611.	3.4	110
12	Cellular uptake of Antennapedia Penetratin peptides is a two-step process in which phase transfer precedes a tryptophan-dependent translocation. Nucleic Acids Research, 2003, 31, 556-561.	14.5	108
13	Evaluation of the extracellular and intracellular activities (human THP-1 macrophages) of telavancin versus vancomycin against methicillin-susceptible, methicillin-resistant, vancomycin-intermediate and vancomycin-resistant Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2006, 58, 1177-1184.	3.0	100
14	Targeting the Type Three Secretion System in Pseudomonas aeruginosa. Trends in Pharmacological Sciences, 2016, 37, 734-749.	8.7	97
15	Role of oxidative stress in lysosomal membrane permeabilization and apoptosis induced by gentamicin, an aminoglycoside antibiotic. Free Radical Biology and Medicine, 2011, 51, 1656-1665.	2.9	91
16	Comparison of the Antibiotic Activities of Daptomycin, Vancomycin, and the Investigational Fluoroquinolone Delafloxacin against Biofilms from Staphylococcus aureus Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2014, 58, 6385-6397.	3.2	88
17	Combined effect of pH and concentration on the activities of gentamicin and oxacillin against Staphylococcus aureus in pharmacodynamic models of extracellular and intracellular infections. Journal of Antimicrobial Chemotherapy, 2006, 59, 246-253.	3.0	87
18	Interactions of ciprofloxacin with DPPC and DPPG: Fluorescence anisotropy, ATR-FTIR and 31P NMR spectroscopies and conformational analysis. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2535-2543.	2.6	78

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19	The Pseudomonas aeruginosa membranes: A target for a new amphiphilic aminoglycoside derivative?. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1716-1727.	2.6	78
20	Interactions of oritavancin, a new lipoglycopeptide derived from vancomycin, with phospholipid bilayers: Effect on membrane permeability and nanoscale lipid membrane organization. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1832-1840.	2.6	77
21	Influence of Efflux Transporters on the Accumulation and Efflux of Four Quinolones (Ciprofloxacin,) Tj ETQq1 1 0.784314 rgBT /Overlock Chemotherapy, 2005, 49, 2429-2437.	3.2	76
22	Gentamicin Causes Apoptosis at Low Concentrations in Renal LLC-PK 1 Cells Subjected to Electroporation. Antimicrobial Agents and Chemotherapy, 2006, 50, 1213-1221.	3.2	73
23	Cellular Pharmacokinetics and Pharmacodynamics of the Glycopeptide Antibiotic Oritavancin (LY333328) in a Model of J774 Mouse Macrophages. Antimicrobial Agents and Chemotherapy, 2004, 48, 2853-2860.	3.2	66
24	Biochemical mechanism of aminoglycoside-induced inhibition of phosphatidylcholine hydrolysis by lysosomal phospholipases. Biochemical Pharmacology, 1988, 37, 591-599.	4.4	65
25	Influence of P-Glycoprotein Inhibitors on Accumulationof Macrolides in J774 MurineMacrophages. Antimicrobial Agents and Chemotherapy, 2003, 47, 1047-1051.	3.2	64
26	Synthesis and Antimicrobial Evaluation of Amphiphilic Neamine Derivatives. Journal of Medicinal Chemistry, 2010, 53, 119-127.	6.4	63
27	Targeting Bacterial Cardiolipin Enriched Microdomains: An Antimicrobial Strategy Used by Amphiphilic Aminoglycoside Antibiotics. Scientific Reports, 2017, 7, 10697.	3.3	59
28	Induction of Highly Curved Structures in Relation to Membrane Permeabilization and Budding by the Triterpenoid Saponins, Î±- and Î²-Hederin. Journal of Biological Chemistry, 2013, 288, 14000-14017.	3.4	55
29	Modulation of the Cellular Accumulation and Intracellular Activity of Daptomycin towards Phagocytized Staphylococcus aureus by the P-Glycoprotein (MDR1) Efflux Transporter in Human THP-1 Macrophages and Madin-Darby Canine Kidney Cells. Antimicrobial Agents and Chemotherapy, 2007, 51, 2748-2757.	3.2	53
30	Active Efflux of Ciprofloxacin from J774 Macrophages through an MRP-Like Transporter. Antimicrobial Agents and Chemotherapy, 2004, 48, 2673-2682.	3.2	52
31	Water-soluble amphotericin Bâ€“polyvinylpyrrolidone complexes with maintained antifungal activity against Candida spp. and Aspergillus spp. and reduced haemolytic and cytotoxic effects. Journal of Antimicrobial Chemotherapy, 2006, 57, 236-244.	3.0	52
32	New Amphiphilic Neamine Derivatives Active against Resistant Pseudomonas aeruginosa and Their Interactions with Lipopolysaccharides. Antimicrobial Agents and Chemotherapy, 2014, 58, 4420-4430.	3.2	52
33	Membrane Vesicle Production as a Bacterial Defense Against Stress. Frontiers in Microbiology, 2020, 11, 600221.	3.5	51
34	Activity of three Î²-lactams (ertapenem, meropenem and ampicillin) against intraphagocytic Listeria monocytogenes and Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2005, 55, 897-904.	3.0	50
35	Ultrastructural, physico-chemical and conformational study of the interactions of gentamicin and bis(beta-diethylaminoethylether)hexestrol with negatively-charged phospholipid layers. Biochemical Pharmacology, 1989, 38, 729-741.	4.4	47
36	Alterations in membrane permeability induced by aminoglycoside antibiotics: studies on liposomes and cultured cells. European Journal of Pharmacology, 1993, 247, 155-168.	2.6	44

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37	Tuning the Antibacterial Activity of Amphiphilic Neamine Derivatives and Comparison to Paromamine Homologues. Journal of Medicinal Chemistry, 2013, 56, 7691-7705.	6.4	43
38	Selection of quinolone resistance in Streptococcus pneumoniae exposed in vitro to subinhibitory drug concentrations. Journal of Antimicrobial Chemotherapy, 2007, 60, 965-972.	3.0	42
39	Domain Formation and Permeabilization Induced by the Saponin Î±-Hederin and Its Aglycone Hederagenin in a Cholesterol-Containing Bilayer. Langmuir, 2014, 30, 4556-4569.	3.5	42
40	Activity of beta-lactams (ampicillin, meropenem), gentamicin, azithromycin and moxifloxacin against intracellular Listeria monocytogenes in a 24 h THP-1 human macrophage model. Journal of Antimicrobial Chemotherapy, 2003, 51, 1051-1052.	3.0	40
41	Novel polymyxin derivatives are less cytotoxic than polymyxin B to renal proximal tubular cells. Peptides, 2012, 35, 248-252.	2.4	39
42	Characterization of the Interactions between Fluoroquinolone Antibiotics and Lipids: a Multitechnique Approach. Biophysical Journal, 2008, 94, 3035-3046.	0.5	38
43	Membrane destabilization induced by Î²-amyloid peptide 29-42: Importance of the amino-terminus. Chemistry and Physics of Lipids, 2002, 120, 57-74.	3.2	37
44	Effect of acidic phospholipids on the activity of lysosomal phospholipases and on their inhibition by aminoglycoside antibioticsâ€"I. Biochemical Pharmacology, 1990, 40, 489-497.	4.4	35
45	Azithromycin, a lysosomotropic antibiotic, impairs fluid-phase pinocytosis in cultured fibroblasts. European Journal of Cell Biology, 2001, 80, 466-478.	3.6	35
46	Cellular accumulation of fluoroquinolones is not predictive of their intracellular activity: studies with gemifloxacin, moxifloxacin and ciprofloxacin in a pharmacokinetic/pharmacodynamic model of uninfected and infected macrophages. International Journal of Antimicrobial Agents, 2011, 38, 249-56.	2.5	34
47	New Broad-Spectrum Antibacterial Amphiphilic Aminoglycosides Active against Resistant Bacteria: From Neamine Derivatives to Smaller Neosamine Analogues. Journal of Medicinal Chemistry, 2016, 59, 9350-9369.	6.4	34
48	Aminoglycoside antibiotics induce aggregation but not fusion of negatively-charged liposomes. European Journal of Pharmacology, 1995, 289, 321-333.	2.6	33
49	Biophysical studies and intracellular destabilization of pHâ€sensitive liposomes. Lipids, 2000, 35, 213-223.	1.7	33
50	Negatively Charged Lipids as a Potential Target for New Amphiphilic Aminoglycoside Antibiotics. Journal of Biological Chemistry, 2016, 291, 13864-13874.	3.4	33
51	Mixed-Lipid Storage Disorder Induced in Macrophages and Fibroblasts by Oritavancin (LY333328), a New Glycopeptide Antibiotic with Exceptional Cellular Accumulation. Antimicrobial Agents and Chemotherapy, 2005, 49, 1695-1700.	3.2	32
52	Role of Acidic pH in the Susceptibility of Intraphagocytic Methicillin-Resistant Staphylococcus aureus Strains to Meropenem and Cloxacillin. Antimicrobial Agents and Chemotherapy, 2007, 51, 1627-1632.	3.2	32
53	The Biologically Important Surfactin Lipopeptide Induces Nanoripples in Supported Lipid Bilayers. Langmuir, 2007, 23, 9769-9772.	3.5	32
54	In Vitro Anti-Leishmanial Activity of Essential Oils Extracted from Vietnamese Plants. Molecules, 2017, 22, 1071.	3.8	32

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55	Cellular pharmacokinetics of telavancin, a novel lipoglycopeptide antibiotic, and analysis of lysosomal changes in cultured eukaryotic cells (J774 mouse macrophages and rat embryonic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.2	30
56	Î±-Hederin Induces Apoptosis, Membrane Permeabilization and Morphologic Changes in Two Cancer Cell Lines Through a Cholesterol-Dependent Mechanism. Planta Medica, 2016, 82, 1532-1539.	1.3	30
57	Impairment of Growth ofListeria monocytogenesin THPâ€1 Macrophages by Granulocyte Macrophage Colonyâ€Stimulating Factor: Release of Tumor Necrosis Factorâ€“Î± and Nitric Oxide. Journal of Infectious Diseases, 2004, 189, 2101-2109.	4.0	29
58	Membrane cholesterol delays cellular apoptosis induced by ginsenoside Rh2, a steroid saponin. Toxicology and Applied Pharmacology, 2018, 352, 59-67.	2.8	29
59	Cooperation between Prokaryotic (Lde) and Eukaryotic (MRP) Efflux Transporters in J774 Macrophages Infected withListeria monocytogenes: Studies with Ciprofloxacin and Moxifloxacin. Antimicrobial Agents and Chemotherapy, 2008, 52, 3040-3046.	3.2	26
60	Identification of the Efflux Transporter of the Fluoroquinolone Antibiotic Ciprofloxacin in Murine Macrophages: Studies with Ciprofloxacin-Resistant Cells. Antimicrobial Agents and Chemotherapy, 2009, 53, 2410-2416.	3.2	26
61	Interactions of oritavancin, a new semi-synthetic lipoglycopeptide, with lipids extracted from Staphylococcus aureus. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1876-1885.	2.6	26
62	Cellular Accumulation and Activity of Quinolones in Ciprofloxacin-Resistant J774 Macrophages. Antimicrobial Agents and Chemotherapy, 2006, 50, 1689-1695.	3.2	24
63	Surfactant Protein B Promotes Cytosolic SiRNA Delivery by Adopting a Virus-like Mechanism of Action. ACS Nano, 2021, 15, 8095-8109.	14.6	24
64	Effect of cardiolipin on the antimicrobial activity of a new amphiphilic aminoglycoside derivative on Pseudomonas aeruginosa. PLoS ONE, 2018, 13, e0201752.	2.5	23
65	Tuning of Differential Lipid Order Between Submicrometric Domains and Surrounding Membrane Upon Erythrocyte Reshaping. Cellular Physiology and Biochemistry, 2018, 48, 2563-2582.	1.6	22
66	Modulation of the in vitro activity of lysosomal phospholipase A1 by membrane lipids. Chemistry and Physics of Lipids, 2005, 133, 1-15.	3.2	21
67	Labelâ€Free Imaging of Cholesterol Assemblies Reveals Hidden Nanomechanics of Breast Cancer Cells. Advanced Science, 2020, 7, 2002643.	11.2	21
68	Experimental and Conformational Analyses of Interactions between Butenafine and Lipids. Antimicrobial Agents and Chemotherapy, 2001, 45, 3347-3354.	3.2	20
69	Pharmacological Characterization of 7-(4-(Piperazin-1-yl)) Ciprofloxacin Derivatives: Antibacterial Activity, Cellular Accumulation, Susceptibility to Efflux Transporters, and Intracellular Activity. Pharmaceutical Research, 2014, 31, 1290-1301.	3.5	20
70	Evaluation of the Anti-Trypanosomal Activity of Vietnamese Essential Oils, with Emphasis on Curcuma longa L. and Its Components. Molecules, 2019, 24, 1158.	3.8	20
71	Accumulation and Oriented Transport of Ampicillin in Caco-2 Cells from Its Pivaloyloxymethylester Prodrug, Pivampicillin. Antimicrobial Agents and Chemotherapy, 2005, 49, 1279-1288.	3.2	19
72	Study of Macrophage Functions in Murine J774 Cells and Human Activated THP-1 Cells Exposed to Oritavancin, a Lipoglycopeptide with High Cellular Accumulation. Antimicrobial Agents and Chemotherapy, 2014, 58, 2059-2066.	3.2	19

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73	Broad-spectrum antibacterial amphiphilic aminoglycosides: A new focus on the structure of the lipophilic groups extends the series of active dialkyl neamines. European Journal of Medicinal Chemistry, 2018, 157, 1512-1525.	5.5	19
74	Antimicrobial activity of amphiphilic neamine derivatives: Understanding the mechanism of action on Gram-positive bacteria. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 182998.	2.6	18
75	Cocaine induces a mixed lysosomal lipidosis in cultured fibroblasts, by inactivation of acid sphingomyelinase and inhibition of phospholipase A1. Toxicology and Applied Pharmacology, 2004, 194, 101-110.	2.8	17
76	Changes in membrane biophysical properties induced by the Budesonide/Hydroxypropyl-Î²-cyclodextrin complex. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1930-1940.	2.6	17
77	Apoptosis Induced by Aminoglycosides in LLC-PK1 Cells: Comparative Study of Neomycin, Gentamicin, Amikacin, and Isepamicin Using Electroporation. Antimicrobial Agents and Chemotherapy, 2008, 52, 2236-2238.	3.2	16
78	Interactions of aminoglycoside antibiotics with phospholipids. A deuterium nuclear magnetic resonance study. Chemistry and Physics of Lipids, 1992, 62, 153-163.	3.2	15
79	Cell handling, membrane-binding properties, and membrane-penetration modeling approaches of pivampicillin and phthalimidomethylampicillin, two basic esters of ampicillin, in comparison with chloroquine and azithromycin. Pharmaceutical Research, 2003, 20, 624-631.	3.5	15
80	Subcellular mechanisms involved in apoptosis induced by aminoglycoside antibiotics: Insights on p53, proteasome and endoplasmic reticulum. Toxicology and Applied Pharmacology, 2016, 309, 24-36.	2.8	15
81	The origin of neural stem cells impacts their interactions with targeted-lipid nanocapsules: Potential role of plasma membrane lipid composition and fluidity. Journal of Controlled Release, 2018, 292, 248-255.	9.9	15
82	The activity of the saponin ginsenoside Rh2 is enhanced by the interaction with membrane sphingomyelin but depressed by cholesterol. Scientific Reports, 2019, 9, 7285.	3.3	15
83	Synthesis and Evaluation of 2â€Aminothiophene Derivatives as Staphylococcus aureus Efflux Pump Inhibitors. ChemMedChem, 2020, 15, 716-725.	3.2	15
84	Aminoglycoside antibiotics prevent the formation of non-bilayer structures in negatively-charged membranes. Comparative studies using fusogenic (bis(Î²-diethylaminoethylether)hexestrol) and aggregating (spermine) agents. Chemistry and Physics of Lipids, 1996, 79, 123-135.	3.2	14
85	Major increases of the reactivity and selectivity in aminoglycoside O-alkylation due to the presence of fluoride ions. Tetrahedron, 2012, 68, 737-746.	1.9	12
86	Amphiphilic Aminoglycosides as Medicinal Agents. International Journal of Molecular Sciences, 2020, 21, 7411.	4.1	12
87	Lipid Membranes as Key Targets for the Pharmacological Actions of Ginsenosides. Frontiers in Pharmacology, 2020, 11, 576887.	3.5	10
88	Modulation of the expression of ABC transporters in murine (J774) macrophages exposed to large concentrations of the fluoroquinolone antibiotic moxifloxacin. Toxicology, 2011, 290, 178-186.	4.2	9
89	Intracellular accumulation and activity of ampicillin used as freedrug and as its phthalimidomethyl or pivaloyloxymethyl ester (pivampicillin) against Listeria monocytogenes in J774 macrophages. Journal of Antimicrobial Chemotherapy, 2003, 52, 610-615.	3.0	8
90	Analysis of the Membrane Proteome of Ciprofloxacin-Resistant Macrophages by Stable Isotope Labeling with Amino Acids in Cell Culture (SILAC). PLoS ONE, 2013, 8, e58285.	2.5	8

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91	Contribution of Membrane Vesicle to Reprogramming of Bacterial Membrane Fluidity in Pseudomonas aeruginosa. MSphere, 2022, 7, .	2.9	8
92	Azithromycin, a Lysosomotropic Antibiotic, Has Distinct Effects on Fluid-Phase and Receptor-Mediated Endocytosis, but Does Not Impair Phagocytosis in J774 Macrophages. Experimental Cell Research, 2002, 281, 86-86.	2.6	6
93	The Budesonide-Hydroxypropyl-Î²-Cyclodextrin Complex Attenuates ROS Generation, IL-8 Release and Cell Death Induced by Oxidant and Inflammatory Stress. Study on A549 and A-THP-1 Cells. Molecules, 2020, 25, 4882.	3.8	5
94	Hyperspectral Analysis of Laurdan Emission Spectra in Red Blood Cells and Giant Unilamellar Vesicles. Biophysical Journal, 2015, 108, 622a.	0.5	3
95	Inhibition of TNF-Â production in THP-1 macrophages by glatiramer acetate does not alter their susceptibility to infection by Listeria monocytogenes and does not impair the efficacy of ampicillin or moxifloxacin against intracellular bacteria. Journal of Antimicrobial Chemotherapy, 2004, 54, 288-289.	3.0	1
96	Submicrometric Lipid Domains Play Key Roles in Erythrocyte Deformation: From Membrane Bending to Shape Restoration. Biophysical Journal, 2017, 112, 319a.	0.5	0
97	Sphingomyelin Plays a Critical Role in Membrane-Related Effects Induced by the Steroid Saponin Ginsenoside Rh2. Biophysical Journal, 2019, 116, 512a.	0.5	0
98	Interest of Homodialkyl Neamine Derivatives against Resistant P. aeruginosa, E. coli, and Î²-Lactamases-Producing Bacteriaâ€"Effect of Alkyl Chain Length on the Interaction with LPS. International Journal of Molecular Sciences, 2021, 22, 8707.	4.1	0