

Sandrine Marchand

List of Publications by Year in descending order

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77
papers

2,812
citations

279798

23
h-index

175258

52
g-index

77
all docs

77
docs citations

77
times ranked

2022
citing authors

#	ARTICLE	IF	CITATIONS
1	Steady-state trough serum and epithelial lining fluid concentrations of teicoplanin 12 mg/kg per day in patients with ventilator-associated pneumonia. <i>Intensive Care Medicine</i> , 2006, 32, 775-779.	8.2	600
2	Aerosol Therapy with Colistin Methanesulfonate: a Biopharmaceutical Issue Illustrated in Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3702-3707.	3.2	587
3	Comparison of Intrapulmonary and Systemic Pharmacokinetics of Colistin Methanesulfonate (CMS) and Colistin after Aerosol Delivery and Intravenous Administration of CMS in Critically Ill Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7331-7339.	3.2	148
4	Assay of Colistin and Colistin Methanesulfonate in Plasma and Urine by Liquid Chromatography-Tandem Mass Spectrometry. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 1941-1948.	3.2	130
5	Clinical Pharmacokinetics and Pharmacodynamics of Colistin. <i>Clinical Pharmacokinetics</i> , 2017, 56, 1441-1460.	3.5	116
6	Passive and active strategies for transdermal delivery using co-encapsulating nanostructured lipid carriers: In vitro vs. in vivo studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 86, 133-144.	4.3	91
7	In vitro and in vivo investigations on fluoroquinolones; effects of the P-glycoprotein efflux transporter on brain distribution of sparfloxacin. <i>European Journal of Pharmaceutical Sciences</i> , 2000, 12, 85-93.	4.0	85
8	A Generic Multi-Compartmental CNS Distribution Model Structure for 9 Drugs Allows Prediction of Human Brain Target Site Concentrations. <i>Pharmaceutical Research</i> , 2017, 34, 333-351.	3.5	59
9	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 2. Colistin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3950-3956.	3.2	55
10	Removal of colistin during intermittent haemodialysis in two critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1836-1837.	3.0	48
11	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 3. Tobramycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 6646-6647.	3.2	44
12	Dose-ranging pharmacokinetics of colistin methanesulphonate (CMS) and colistin in rats following single intravenous CMS doses. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1753-1758.	3.0	41
13	Pharmacokinetics of Ertapenem following Intravenous and Subcutaneous Infusions in Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 924-926.	3.2	40
14	Microdialysis Study of Imipenem Distribution in Skeletal Muscle and Lung Extracellular Fluids of Noninfected Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 2356-2361.	3.2	36
15	Ignoring pharmacokinetics may lead to isoboles misinterpretation: illustration with the norfloxacin-theophylline convulsant interaction in rats. <i>Pharmaceutical Research</i> , 2002, 19, 209-214.	3.5	34
16	Microdialysis as a way to measure antibiotics concentration in tissues. <i>Pharmacological Research</i> , 2016, 111, 201-207.	7.1	34
17	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 1. Ciprofloxacin, Moxifloxacin, and Grepafloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3942-3949.	3.2	33
18	Pharmacokinetics of nebulized colistin methanesulfonate in critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2607-2612.	3.0	32

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19	Application of Basic Pharmacokinetic Concepts to Analysis of Microdialysis Data. <i>Clinical Pharmacokinetics</i> , 2008, 47, 181-189.	3.5	27
20	Brain Microdialysis Study of Meropenem in Two Patients with Acute Brain Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3502-3504.	3.2	27
21	Pulmonary pharmacokinetics of levofloxacin in rats after aerosolization of immediate-release chitosan or sustained-release PLGA microspheres. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 184-191.	4.0	26
22	Metronidazole and Hydroxymetronidazole Central Nervous System Distribution: 1. Microdialysis Assessment of Brain Extracellular Fluid Concentrations in Patients with Acute Brain Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1019-1023.	3.2	25
23	Kinetics of Imipenem Distribution into the Peritoneal Fluid of Patients with Severe Peritonitis Studied by Microdialysis. <i>Clinical Pharmacokinetics</i> , 2010, 49, 323-334.	3.5	24
24	Simultaneous central nervous system distribution and pharmacokinetic-pharmacodynamic modelling of the electroencephalogram effect of norfloxacin administered at a convulsant dose in rats. <i>British Journal of Pharmacology</i> , 2004, 142, 323-330.	5.4	21
25	Microdialysis Study of Cefotaxime Cerebral Distribution in Patients with Acute Brain Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2738-2742.	3.2	21
26	New aerosol formulation to control ciprofloxacin pulmonary concentration. <i>Journal of Controlled Release</i> , 2018, 271, 118-126.	9.9	21
27	Clinical Pharmacokinetics of Daptomycin. <i>Clinical Pharmacokinetics</i> , 2021, 60, 271-281.	3.5	20
28	Use of leucine to improve aerodynamic properties of ciprofloxacin-loaded maltose microparticles for inhalation. <i>European Journal of Pharmaceutical Research</i> , 2019, 1, 02-11.	1.0	20
29	Microdialysis Study of Imipenem Distribution in Skeletal Muscle and Lung Extracellular Fluids of <i>Acinetobacter baumannii</i> -Infected Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 2265-2267.	3.2	19
30	A simple and sensitive liquid chromatography-tandem mass spectrometry assay for the quantification of ertapenem in microdialysate. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 862, 242-245.	2.3	19
31	Pharmacokinetics of Colistin Methansulphonate (CMS) and Colistin after CMS Nebulisation in Baboon Monkeys. <i>Pharmaceutical Research</i> , 2015, 32, 3403-3414.	3.5	18
32	Pharmacokinetic Modeling of Free Amoxicillin Concentrations in Rat Muscle Extracellular Fluids Determined by Microdialysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3702-3706.	3.2	17
33	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats. 4. Aztreonam. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 3196-3198.	3.2	17
34	Population pharmacokinetics of daptomycin in critically ill patients with various degrees of renal impairment. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 117-125.	3.0	17
35	Dose ranging pharmacokinetics and brain distribution of norfloxacin using microdialysis in rats. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 2458-2465.	3.3	15
36	Metronidazole and Hydroxymetronidazole Central Nervous System Distribution: 2. Cerebrospinal Fluid Concentration Measurements in Patients with External Ventricular Drain. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1024-1027.	3.2	15

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37	Lung Microdialysis Study of Levofloxacin in Rats following Intravenous Infusion at Steady State. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3074-3077.	3.2	14
38	Nefopam Pharmacokinetics in Patients with End-Stage Renal Disease. <i>Anesthesia and Analgesia</i> , 2010, 111, 1146-1153.	2.2	14
39	Pharmacokinetics of intravenous and nebulized gentamicin in critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 2830-2837.	3.0	13
40	Modelled Target Attainment after Temocillin Treatment in Severe Pneumonia: Systemic and Epithelial Lining Fluid Pharmacokinetics of Continuous versus Intermittent Infusions. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0205221.	3.2	13
41	Microdialysis Study of Imipenem Distribution in the Intraperitoneal Fluid of Rats with or without Experimental Peritonitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 34-37.	3.2	12
42	Lack of Effect of Experimental Hypovolemia on Imipenem Muscle Distribution in Rats Assessed by Microdialysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 4974-4979.	3.2	10
43	In vitro evaluation of <i>Pseudomonas aeruginosa</i> chronic lung infection models: Are agar and calcium-alginate beads interchangeable?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 143, 35-43.	4.3	10
44	Pharmacokinetic-pharmacodynamic modelling of the convulsant interaction between norfloxacin and biphenyl acetic acid in rats. <i>British Journal of Pharmacology</i> , 2000, 129, 1609-1616.	5.4	8
45	Active Mediated Transport of Chloramphenicol and Thiamphenicol in a Calu-3 Lung Epithelial Cell Model. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 1178-1184.	3.3	8
46	Semimechanistic Pharmacodynamic Modeling of Aztreonam+Avibactam Combination to Understand Its Antimicrobial Activity Against Multidrug-Resistant Gram-Negative Bacteria. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 815-824.	2.5	8
47	Reassessing the dosing of cefoxitin prophylaxis during major abdominal surgery: insights from microdialysis and population pharmacokinetic modelling. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 1975-1983.	3.0	8
48	A physiologically based pharmacokinetic (PBPK) model exploring the blood-milk barrier in lactating species - A case study with oxytetracycline administered to dairy cows and goats. <i>Food and Chemical Toxicology</i> , 2022, 161, 112848.	3.6	8
49	A Whole-Body Physiologically Based Pharmacokinetic Model for Colistin and Colistin Methanesulfonate in Rat. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 123, 407-422.	2.5	7
50	Comparative pharmacokinetics of the three echinocandins in ICU patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 2969-2976.	3.0	7
51	Norfloxacin Blood-Brain Barrier Transport in Rats Is Not Affected by Probenecid Coadministration. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 371-373.	3.2	6
52	Microdialysis Study of Imipenem Distribution in the Peritoneal Fluid of Rats with Experimental Acute Pancreatitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 1516-1518.	3.2	6
53	Comparison between Colistin Sulfate Dry Powder and Solution for Pulmonary Delivery. <i>Pharmaceutics</i> , 2020, 12, 557.	4.5	6
54	Norfloxacin-Induced Electroencephalogram Alteration and Seizures in Rats Are Not Triggered by Enhanced Levels of Intracerebral Glutamate. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 3660-3662.	3.2	5

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55	Colistin Distribution in the Peritoneal Fluid of a Patient with Severe Peritonitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4035-4036.	3.2	5
56	Effect of experimentally induced hypovolemia on ertapenem tissue distribution using microdialysis in rats. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 45-50.	4.0	5
57	Microdialysis Study of Aztreonam-Avibactam Distribution in Peritoneal Fluid and Muscle of Rats with or without Experimental Peritonitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	5
58	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 6. Aminoglycosides. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	5
59	Pharmacokinetics of colistin after nebulization or intravenous administration of colistin methanesulphonate (Colimycin [®]) to cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2020, 19, 421-426.	0.7	5
60	Improved antibacterial efficiency of inhaled thiamphenicol dry powders: Mathematical modelling of in vitro dissolution kinetic and in vitro antibacterial efficacy. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 152, 105435.	4.0	5
61	Sequential Time-Kill, a Simple Experimental Trick To Discriminate between Pharmacokinetics/Pharmacodynamics Models with Distinct Heterogeneous Subpopulations versus Homogenous Population with Adaptive Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	5
62	Pharmacokinetics of Daptomycin in a Patient with Severe Renal Failure Not Receiving Dialysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2898-2899.	3.2	4
63	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 5. Oseltamivir Carboxylate. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5085-5087.	3.2	4
64	A new PKPD model to characterize the inoculum effect of <i>Acinetobacter baumannii</i> on polymyxin B in vitro. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, , AAC0178921.	3.2	4
65	Draft Genome Sequence of <i>Kazachstania bovina</i> Yeast Isolated from Human Infection. <i>Mycopathologia</i> , 2022, 187, 413-415.	3.1	4
66	Pharmacokinetics of Polymyxins in Animals. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 89-103.	1.6	3
67	Corticosteroids alter alveolar macrophage control of <i>Lichtheimia corymbifera</i> spores in an ex vivo mouse model. <i>Medical Mycology</i> , 2021, 59, 694-700.	0.7	3
68	<i>Lichtheimia corymbifera</i> Colonization Leading to Pulmonary Infection Can Be Prevented with Liposomal Amphotericin B in a New Murine Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	2
69	Preclinical Pharmacokinetic and Pharmacodynamic Data To Support Cefoxitin Nebulization for the Treatment of <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	2
70	Extension of the Isobolographic Approach to Interactions Studies Between More than Two Drugs: Illustration with the Convulsant Interaction between Pefloxacin, Norfloxacin, and Theophylline in Rats. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 553-562.	3.3	1
71	Modeling Approach To Characterize Intraocular Doripenem Pharmacokinetics after Intravenous Administration to Rabbits, with Tentative Extrapolation to Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 3531-3534.	3.2	1
72	Microdialysis in Antibiotic Research. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2013, , 103-126.	0.6	1

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73	How to solve the problem of spontaneous bacterial clearance when testing new antibiotic treatment: results on experimental pneumonia due to a derepressed cephalosporinase-producing <i>Enterobacter cloacae</i> . <i>Fundamental and Clinical Pharmacology</i> , 2013, 27, 239-243.	1.9	1
74	Is augmented renal clearance the Holy Grail of antibiotic therapy failure in ventilator-acquired pneumonia?. <i>Anaesthesia, Critical Care & Pain Medicine</i> , 2018, 37, 5-6.	1.4	1
75	Pulmonary Pharmacokinetics of Oseltamivir Carboxylate in Rats after Nebulization or Intravenous Administration of Its Prodrug, Oseltamivir Phosphate. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	1
76	Diffusion p β -lactamase des antibiotiques. , 2007, , 41-50.		0
77	PKPD Modeling of the Inoculum Effect of <i>Acinetobacter baumannii</i> on Polymyxin B in vivo. <i>Frontiers in Pharmacology</i> , 2022, 13, 842921.	3.5	0