

# Sandrine Marchand

## List of Publications by Year in descending order

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77  
papers

2,812  
citations

279487

23  
h-index

174990

52  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2022  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	13
2	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.	1.8	8
3	PKPD Modeling of the Inoculum Effect of <i>Acinetobacter baumannii</i> on Polymyxin B in vivo. <i>Frontiers in Pharmacology</i> , 2022, 13, 842921.	1.6	0
4	Draft Genome Sequence of <i>Kazachstania bovina</i> Yeast Isolated from Human Infection. <i>Mycopathologia</i> , 2022, 187, 413-415.	1.3	4
5	Clinical Pharmacokinetics of Daptomycin. <i>Clinical Pharmacokinetics</i> , 2021, 60, 271-281.	1.6	20
6	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.	0.3	3
7	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.	1.4	4
8	Pharmacokinetics of colistin after nebulization or intravenous administration of colistin methanesulphonate (Colimycin <sup>®</sup> ) to cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2020, 19, 421-426.	0.3	5
9	Comparative pharmacokinetics of the three echinocandins in ICU patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 2969-2976.	1.3	7
10	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.	1.9	5
11	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, .	1.4	5
12	Comparison between Colistin Sulfate Dry Powder and Solution for Pulmonary Delivery. <i>Pharmaceutics</i> , 2020, 12, 557.	2.0	6
13	Population pharmacokinetics of daptomycin in critically ill patients with various degrees of renal impairment. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 117-125.	1.3	17
14	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.	1.3	8
15	Pharmacokinetics of Polymyxins in Animals. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1145, 89-103.	0.8	3
16	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.	2.0	10
17	<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, .	1.4	2
18	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, .	1.4	2

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19	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.	1.3	8
20	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, .	1.4	1
21	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
22	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.	1.2	7
23	Is augmented renal clearance the Holy Grail of antibiotic therapy failure in ventilator-acquired pneumonia?. <i>Anaesthesia, Critical Care &amp; Pain Medicine</i> , 2018, 37, 5-6.	0.6	1
24	New aerosol formulation to control ciprofloxacin pulmonary concentration. <i>Journal of Controlled Release</i> , 2018, 271, 118-126.	4.8	21
25	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.	1.6	8
26	Pharmacokinetics of intravenous and nebulized gentamicin in critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 2830-2837.	1.3	13
27	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, .	1.4	5
28	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 6. Aminoglycosides. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	5
29	Clinical Pharmacokinetics and Pharmacodynamics of Colistin. <i>Clinical Pharmacokinetics</i> , 2017, 56, 1441-1460.	1.6	116
30	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.	1.7	59
31	Pharmacokinetics of nebulized colistin methanesulfonate in critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2607-2612.	1.3	32
32	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.	1.9	26
33	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats. 4. Aztreonam. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 3196-3198.	1.4	17
34	Microdialysis as a way to measure antibiotics concentration in tissues. <i>Pharmacological Research</i> , 2016, 111, 201-207.	3.1	34
35	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 5. Oseltamivir Carboxylate. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5085-5087.	1.4	4
36	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 3. Tobramycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 6646-6647.	1.4	44

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37	Pharmacokinetics of Colistin Methansulphonate (CMS) and Colistin after CMS Nebulisation in Baboon Monkeys. <i>Pharmaceutical Research</i> , 2015, 32, 3403-3414.	1.7	18
38	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.	1.4	15
39	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 2. Colistin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3950-3956.	1.4	55
40	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.	1.4	25
41	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.	1.4	148
42	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.	2.0	91
43	Biopharmaceutical Characterization of Nebulized Antimicrobial Agents in Rats: 1. Ciprofloxacin, Moxifloxacin, and Grepafloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3942-3949.	1.4	33
44	Effect of experimentally induced hypovolemia on ertapenem tissue distribution using microdialysis in rats. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 45-50.	1.9	5
45	Microdialysis in Antibiotic Research. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2013, , 103-126.	0.2	1
46	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.	1.0	1
47	Microdialysis Study of Cefotaxime Cerebral Distribution in Patients with Acute Brain Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2738-2742.	1.4	21
48	Pharmacokinetics of Daptomycin in a Patient with Severe Renal Failure Not Receiving Dialysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2898-2899.	1.4	4
49	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.	1.4	1
50	Colistin Distribution in the Peritoneal Fluid of a Patient with Severe Peritonitis. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4035-4036.	1.4	5
51	Aerosol Therapy with Colistin Methanesulfonate: a Biopharmaceutical Issue Illustrated in Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3702-3707.	1.4	587
52	Removal of colistin during intermittent haemodialysis in two critically ill patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 1836-1837.	1.3	48
53	Pharmacokinetics of Ertapenem following Intravenous and Subcutaneous Infusions in Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 924-926.	1.4	40
54	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.	1.4	130

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55	Nefopam Pharmacokinetics in Patients with End-Stage Renal Disease. <i>Anesthesia and Analgesia</i> , 2010, 111, 1146-1153.	1.1	14
56	Kinetics of Imipenem Distribution into the Peritoneal Fluid of Patients with Severe Peritonitis Studied by Microdialysis. <i>Clinical Pharmacokinetics</i> , 2010, 49, 323-334.	1.6	24
57	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.	1.3	41
58	Brain Microdialysis Study of Meropenem in Two Patients with Acute Brain Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3502-3504.	1.4	27
59	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.	1.2	19
60	Application of Basic Pharmacokinetic Concepts to Analysis of Microdialysis Data. <i>Clinical Pharmacokinetics</i> , 2008, 47, 181-189.	1.6	27
61	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.	1.4	6
62	Lung Microdialysis Study of Levofloxacin in Rats following Intravenous Infusion at Steady State. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3074-3077.	1.4	14
63	Diffusion p <sub>riton</sub> ale des antibiotiques. , 2007, , 41-50.		0
64	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.	3.9	600
65	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.	1.4	12
66	Norfloxacin Blood-Brain Barrier Transport in Rats Is Not Affected by Probenecid Coadministration. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 371-373.	1.4	6
67	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.	1.4	19
68	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.	1.4	10
69	Pharmacokinetic Modeling of Free Amoxicillin Concentrations in Rat Muscle Extracellular Fluids Determined by Microdialysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3702-3706.	1.4	17
70	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.	1.4	36
71	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.	2.7	21
72	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.	1.6	1

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73	Dose ranging pharmacokinetics and brain distribution of norfloxacin using microdialysis in rats. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 2458-2465.	1.6	15
74	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.	1.4	5
75	Ignoring pharmacokinetics may lead to isoboles misinterpretation: illustration with the norfloxacin-theophylline convulsant interaction in rats. <i>Pharmaceutical Research</i> , 2002, 19, 209-214.	1.7	34
76	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.	2.7	8
77	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.	1.9	85