



Maxime Danjean

PharmD, PhD | Clinical Microbiologist

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Personal Information

Situation: Born in Paris, France, on 15 June 1992. Married. One child.

Home address: Issy-les-Moulineaux, 92130, France.

Positions

Postdoctoral Fellow Center for Interdisciplinary Research in Biology, Collège de France	2026 – Present Paris, France
Postdoctoral Fellow Microbiomes Institute, University of South Florida	2025 – 2026 Tampa, FL, USA
Assistant Professor UR 7380 DYNAMYC – Université Paris-Est Créteil	2021 – 2025 Créteil, France
Clinical Microbiologist Bacteriology Laboratory and Infection Control Team – Henri Mondor University Hospital	2021 – 2025 Créteil, France
Resident in Medical Biology Assistance Publique Hôpitaux de Paris	2016 – 2021 Paris, France

Education

PhD in Microbiology and Bacterial Genomics Université Paris-Est Créteil	2021 – 2025 Créteil, France
University Degree in Infection Control and Healthcare-Associated Infections Sorbonne Université	2023 – 2024 Paris, France
University Degree in Medical Biology (specialization: Bacteriology) Université Paris Cité – Assistance Publique Hôpitaux de Paris	2016 – 2021 Paris, France
PharmD Université Paris Cité	2010 – 2021 Paris, France
MSc in Molecular and Cellular Biology Institut Pasteur – Université Paris Cité – INSERM – CNRS	2019 – 2020 Paris, France
University Degree in Infectious Diseases: Prevention, Vaccination, Treatment Université Paris Descartes	2018 – 2019 Paris, France

Research Interests

- Epidemiology of emerging multidrug-resistant bacterial clones and transmission pathways.
- Molecular phylogeny, hierarchical clustering, and bacterial population genomics.
- Phenotypic and genotypic characterization of ESBL- and carbapenemase-producing *Enterobacterales*.
- Characterization of microbiome bacterial diversity and molecular biomarkers discovery.
- Implementation of bacterial genomics and metagenomics into clinical microbiology and infection control.

Clinical Activity

- Supervision of microbiology analyses and results for hospital inpatients.
- Monitoring of infection prevention and control measures.
- Contribution to the ISO 17025 accreditation process.
- Supervision of laboratory technicians and nursing staff.
- 24/7 service continuity, including weekend microbiology coverage and night shifts.

Technical Skills

Clinical Microbiology

Bacteriological diagnosis, antimicrobial susceptibility testing, infection prevention and control, hospital epidemiology.

Bacterial Genomics

Comparative genomics, cgMLST, SNP analysis, genetic background characterization, phylogenetics.

Metagenomics

Shotgun metagenomics, microbiome diversity analysis, taxonomic profiling, AMR gene profiling.

Bioinformatics

R, Bash, reproducible pipelines, data management and visualization.

Teaching

University Teaching

Université Paris-Est Créteil – Université Paris Cité

2021 – 2025

Créteil – Paris, France

- Bachelor's degree courses: first-, second-, and third-year students.
- MSc courses: first- and second-year master's students.

Hospital Teaching and Training

Henri Mondor University Hospital

2021 – 2025

Créteil, France

- Initial theoretical and practical training for medical biology residents.
- Ongoing training for laboratory technicians and laboratory lectures for early medical students.

Awards and Grants

Two-year Postdoctoral Fellowship DIM1Health 2.0 – Région Île-de-France	2026 France
One-year Postdoctoral Fellowship University of South Florida – Fondation Université Paris Cité	2025 USA – France
Two-year Doctoral Fellowship ANRS – Maladies Infectieuses Émergentes (declined)	2023 France
Research Year Fellowship Assistance Publique Hôpitaux de Paris	2019 France

Publications

Danjean M*, Beaumont AL*, Jacquier H, Boyd A, Jaspard M, Royer G, <i>et al.</i> Dissemination of ESBL-producing <i>Escherichia coli</i> and carriage in the community worldwide: epidemiology, transmission pathways, molecular insights, and practical aspects. <i>Clin Microbiol Rev.</i>	2026 IF 19.3
Royer G, Danjean M, Rodriguez C, Fihman V, Gallois E, Tessier E, <i>et al.</i> Piperacillin-tazobactam resistance in <i>Klebsiella pneumoniae</i> is often associated with IS26-mediated blaSHV-1 amplification in a widespread Klebsiella-adapted plasmid. <i>Antimicrobial Agents Chemother.</i>	2026 IF 4.5
Danjean M*, Villa A*, Sakr C, Cizeau F, Ducellier D, N'Debi M, <i>et al.</i> Assessing cross-transmission of Gram-negative bacteria in the intensive care unit: a prospective comparison of IR-Biotyper and core-genome multilocus sequence typing. <i>J Hosp Infect.</i>	2026 IF 3.1
Bonnet M, Benzerara L, Danjean M, Woerther PL, Rodriguez C, Schilton O, <i>et al.</i> Evaluation of the BL-RED test and comparison with the β -LACTA test for the rapid detection of third-generation cephalosporin resistance in <i>Enterobacterales</i> on early culture of positive blood cultures. <i>Microbiol Spectr.</i>	2026 IF 3.8
Sakr C, Danjean M, Mercier-Darty M, Cizeau F, Ducellier D, Fourreau F, <i>et al.</i> Transmission pathways and genogroup contribution in <i>Stenotrophomonas maltophilia</i> dissemination: experience from a French university hospital. <i>J Hosp Infect.</i>	2026 IF 3.1
Danjean M, Royer G, Rodriguez C, Woerther PL, Decousser JW. Genomic pitfalls in hospital surveillance: unexpected <i>Enterobacter cloacae</i> clustering without epidemiological link highlights the need for cautious core-genome MLST analysis interpretation. <i>Antimicrob Resist Infect Control.</i>	2025 IF 4.4
Sakr C, Danjean M, Cizeau F, Ducellier D, N'Debi M, Royer G, <i>et al.</i> Unexpected natural cefiderocol resistance in <i>Stenotrophomonas maltophilia</i> associated with the genogroup 4 genetic background. <i>Clin Microbiol Infect.</i>	2025 IF 8.5

Danjean M, Courbin V, Ho A, Bousquet A, Rodriguez C, Jacquier H, et al.	2025
Molecular epidemiology of Panton-Valentine leukocidin-producing <i>Staphylococcus aureus</i> infections, Djibouti, 2018–2023. <i>PLoS Negl Trop Dis.</i>	IF 3.4
Querin B, Danjean M, Jolivet S, Couturier J, Oubbéa S, Jouans C, et al.	2025
Protracted outbreaks of VIM-producing <i>Pseudomonas aeruginosa</i> in a surgical intensive care unit in France, January 2018 to June 2024. <i>Antimicrob Resist Infect Control.</i>	IF 4.4
Songo A, Jacquier H, Danjean M, Compain F, Dorchène D, Edoo Z, et al.	2025
Analysis of two <i>Nocardia brasiliensis</i> class A β -lactamases (BRA-1 and BRS-1) and related resistance to β -lactam antibiotics. <i>J Glob Antimicrob Resist.</i>	IF 3.2
Danjean M, Surgers S, Royer G, Demontant V, Kimseng H, Caillault A, et al.	2025
Extensive dissemination of ESBL-producing clonal complex 14 <i>Escherichia coli</i> is likely spread through sexual transmission among men who have sex with men at risk of sexually transmitted infections. <i>J Infect.</i>	IF 11.9
Souhail B, Danjean M, Mercier-Darty M, Amaddeo G, Sessa A, Fihman V, et al.	2024
First report of <i>Acinetobacter pittii</i> acute community-acquired pneumonia in an immunocompetent patient in France following a heat wave. <i>BMC Infect Dis.</i>	IF 3.0
Larue M, Danjean M, Lepeule R, Woerther PL, Crickx E.	2024
Pericardial abscess in an immunocompromised patient. <i>Ann Intern Med Clin Cases.</i>	IF ND
Sakr M, Danjean M, Decousser JW.	2024
Bactéries hautement émergentes et résistantes : dépistage rapide du portage. <i>Rev Biol Med.</i> (French scientific journal)	IF ND
Kimseng H, Rossi G, Danjean M, Jimenez-Araya B, Chaligne C, Galy A, et al.	2023
Evaluation of the contribution of shotgun metagenomics in the microbiological diagnosis of liver abscesses. <i>J Infect.</i>	IF 14.3
Gallois E, Fihman V, Danjean M, Gomart C, Kimseng H, Le Guen R, et al.	2023
QMAC-dRAST for the direct testing of antibiotic susceptibility for <i>Enterobacterales</i> in positive blood-culture broth: comparison with the MicroScan system and direct disc diffusion testing methods. <i>J Antimicrob Chemother.</i>	IF 3.9
Danjean M, Hobson CA, Gits-Muselli M, Courroux C, Monjault A, Bonacorsi S, et al.	2022
Evaluation of the inoculum effect of new antibiotics against carbapenem-resistant <i>Enterobacterales</i> . <i>Clin Microbiol Infect.</i>	IF 14.2
Mizrahi A, Chat L, Danjean M, Mory C, Nguyen Van JC, de Ponfilly GP, et al.	2022
Inoculum effect of <i>Enterobacterales</i> co-expressing OXA-48 and CTX-M on susceptibility to ceftazidime/avibactam and meropenem. <i>Eur J Clin Microbiol Infect Dis.</i>	IF 4.4

Danjean M, Morel F, Robert J.

2021

Efficacy of aztreonam with β -lactamase inhibitors against metallo-carbapenemase-producing *Enterobacteria*.
Infect Dis Now.

IF 5.965

** Shared authorship.*

Communications

- 12 presentations at French national scientific congresses.
- 9 presentations at international scientific congresses.