

Clément HERSENT



PROFILE

I am a 27-year-old resident currently in my eighth rotation in Medical Biology at the University Hospital of Montpellier. I have a strong passion for both the natural and formal sciences, with a particular interest in genetics. I plan to further specialize in this field by pursuing an Assistant Hospital-University (AHU) position while simultaneously carrying out my PhD research.

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: **France**

Family: **In a relationship without children**

Languages: **French** (native), **English** (B2), **Spanish** (A2)

SKILLS

- Bioinformatics and genome interpretation (R, Python)
- Molecular biology techniques
- Teaching and academic training
- Advanced Microsoft Office
- Communication and teamwork

EXPERIENCE

MEDICAL BIOLOGY RESIDENT (INTERN) CHU de Montpellier, France 2021-pres.

◊ Clinical rotations in Biochemistry, Bacteriology, Hematology, and Genetics. Active participation in routine diagnostics and patient case discussions. Research at the Clinical Investigation Center (teams of Prof. Koenig and Prof. Cossée, IURC) with focus on genome interpretation, variant analysis, and bioinformatics (R, Python).

RESEARCH INTERN (M2) PhyMedExp, Team 5, Montpellier, France 2023-2024

◊ Investigation of splicing factors and their role in intronic mutations identified by exome/genome sequencing. Combination of wet-lab molecular biology and computational approaches.

RESEARCH INTERN (M1) Hydrosience Laboratory, Montpellier, France 2022

◊ Genomic characterization of opportunistic waterborne bacterial isolates using next-generation sequencing and comparative genomics.

TEACHING TUTOR (CHEMISTRY/BIOCHEMISTRY) University of Montpellier 2017-2019

◊ Qualified tutor; courses and exam prep for PACES students. Developed teaching materials and supervised small-group tutorials.

OTHER WORK EXPERIENCE France 2012-2020

◊ Community pharmacy assistant (dispensing, stock handling), delivery rider (Deliveroo, Domino's), seasonal agricultural work (farm machinery, cattle milking).

EDUCATION

DES IN MEDICAL BIOLOGY CHU de Montpellier 2021-pres.

MSC IN HEALTH BIOLOGY (EPIGENBIO) University of Montpellier 2023-2024

◊ Epigenetics, Genetics and Cell Biology. Ranked 2nd/13.

PHARMD / DFASP2 University of Montpellier 2021

◊ Thesis defended with highest honors (*mention très bien, félicitations du jury*).

NATIONAL PHARMACY RESIDENCY EXAM France 2021

◊ Ranked 37th/1303.

PACES ADMISSION University of Montpellier 2017

◊ Ranked 39th/1006.

SCIENTIFIC BACCALAURÉAT (MATHEMATICS) Lycée Jacques Prévert, Saint-Christol-lès-Alès 2016

HOBBIES

◊ Guitar (8 years, Conservatory of Alès), endurance sports (running, cycling, swimming), paragliding (licensed), scuba diving (certified).

PEER-REVIEWED ARTICLES

- Benkirane M, Marelli C, Choumert A, Goizet C, Patat O, Ewencyk C, Anheim M, Mégarbané A, Larrieu L, Charlin C, Ory Magne F, Chaussenot A, Fradin M, Guissart C, Pointaux M, Cossée M, Vincent MC, Bergougnoux A, **Hersent C**, Bareil C, Roubertie A, Fluchère F, Renaud M, Kremer L, Tranchant C, Attarian S, Odent S, Laugel V, Walther-Louvier U, Desnoux B, Bieth E, Husson I, Azulay JP; INTREP-AF consortium; Rivier F, Doray B, Durr A, Aouinti S, Molinari N, Koenig M. *Type and position of repeat interruptions as determinants of disease severity and expansion size in Friedreich ataxia*. **Genet Med**. 2025. ◊ doi:10.1016/j.gim.2025.101588 – PMID:41014100
- Ganne B, **Hersent C**, Gatinois V, Pellestor F, Yaou K. *Visual Inspection of Sequencing Data for Diagnosis: Practical Guide to Structural Variant Analysis Using IGV*. **Methods Mol Biol**. 2025. ◊ doi:10.1007/978-1-0716-4750-9_15 – PMID:40884649
- Sabbagh Q, Poblete NH, Angelini C, **Hersent C**, Benkirane M, Pointaux M, Larrieu L, Castrioto A, Deberge L, Fluchère F, Ramond F, Lesca G, Koenig M, Goizet C. *AP4B1 hypomorphic variants cause autosomal recessive adult-onset ataxia*. **J Neurol**. 2025. ◊ doi:10.1007/s00415-025-12889-5 – PMID:39821477
- Marelli C, Ramond F, Vignal C, Blanchet C, Frost S, Hao Q, Bocquet B, Nadjari Y, Leboucq N, Taieb G, Benkirane M, **Hersent C**, Koenig M, Meunier I. *Phenotypic variability related to dominant UCHL1 mutations: about three families with optic atrophy and ataxia*. **J Neurol**. 2024. ◊ doi:10.1007/s00415-024-12574-z – PMID:39030458
- Royer G, Virieux-Petit M, Aujoulat F, **Hersent C**, Baranovsky S, Hammer-Dedet F, Masnou A, Marchandin H, Corne P, Jumas-Bilak E, Romano-Bertrand S. *Residual risk of Pseudomonas aeruginosa waterborne contamination in an intensive care unit despite the presence of filters at all water points-of-use*. **J Hosp Infect**. 2024. ◊ doi:10.1016/j.jhin.2024.04.012 – PMID:38705477

PHARMD THESIS

Hersent C. *Séquençage haut débit : implication des mutations d'épissage dans les maladies neurodégénératives*. Université de Montpellier, 2021. ◊ Highest honours, félicitations du jury.