

François Hallé
PharmD
PhD in Organic Chemistry

Born May 7th 1989
2 kids
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Research

- 09/2019 -** Assistant Professor in Medicinal Chemistry
ISPB – Faculty of Pharmacy, Campus Rockefeller
[COSSBA Team – ICBMS – UMR 5246 – Université Claude Bernard Lyon 1](#)
- 01/2018 – 08/2018** Post-doctoral Researcher
Synthesis of urea based foldamers as protein-protein interaction inhibitors
Peptidomimetic chemistry team of Dr. Gilles Guichard
[CMBN @IECB – UMR5248 – Université de Bordeaux](#)
- 09/2017 – 09/2018** Assistant Lecturer in Organic and Medicinal Chemistry
Synthesis of cyclic pseudopeptides stabilizing G-quadruplexes.
Team of Pr. Jean Guillon
[ARNA – UMR5320/U1212 – Université de Bordeaux](#)
- 08/2016 – 08/2017** Post-doctoral Researcher – Fulbright Fellowship
Enzymatic synthesis of emissive derivatives of NAD⁺ to evaluate their activity in different biological models.
[Yitzhak Tor Lab – University of California San Diego](#)
- 10/2012 – 12/2015** PhD in Organic Chemistry – MENRT fellowship
Conception, development, and synthesis of TSPO ligands to treat neurodegenerative diseases.
Supervisors : Dr. Frédéric Bihel and Dr. Martine Schmitt
[Laboratoire d'Innovation Thérapeutique – UMR7200 – Université de Strasbourg](#)

Diplomas

- 2012 – 2015** PhD in Organic Chemistry
Université de Strasbourg
- 2014** Doctor of Pharmacy
Université de Strasbourg
- 2011 – 2012** Master 2 « Chemistry and Biology »
Université de Strasbourg
- 2007 – 2011** Pharmaceutical studies
Université de Caen
- 2006** Baccalaureate S, European italian

Skills

- Chemistry** Organic synthesis, catalysis, heterocycles, SPPS, nucleotide chemistry, Preparative HPLC, Flash chromatography
- Biology** Enzymatic reactions, Cell culture, bioconjugation, FACS, PCR, ELISA, SDS-PAGE
- Chemical Biology** Structure-Activity Relationship (SAR), fluorescent probes, liposomes
- Analytic techniques** HPLC, NMR, IR, LCMS, MS, UV, Fluorescence
- Spoken languages** English : C1, TOEIC 2015 : 975/990
Italian : B1

Publications

12 - Helvetica Chimica Acta, 2021, e202100211

"A journey through Hemetsberger-Knittel, Leimgruber-Batcho and Bartoli reactions: access to several hydroxy 5- and 6-azaindoles"
S. Radix, **F. Hallé**, Z. Mahiout, A. Teissonnière, G. Bouchez, L. Auberger, R. Barret, & T. Lomberget

11 - Journal of Neuroendocrinology, 2020, 32, e12796

"Mitochondria modulatory effects of new TSPO ligands in a cellular model of tauopathies"
A. Grimm, I. Lejri, **F. Hallé**, M. Schmitt, J. Götz, F. Bihel & A. Eckert

10 - Acta Scientific Pharmaceutical Sciences, 2019, 3 (12), 33-36

"New 6-Formyl-oxazolo[3,2-a]Pyrimidine Derivatives: Synthesis and Evaluation as Potential Src Kinase Inhibitors"
J. Guillon, **F. Hallé**, S. Savrimoutou, S. Moreau, D. Caignard & P. Sonnet

9 - Journal of Alzheimer Disease 2019, 72 (4), 1045–1058

"TSPO Ligands Boost Mitochondrial Function and Pregnenolone Synthesis"
I. Lejri, A. Grimm, **F. Hallé**, M. Abarghaz, C. Klein, M. Maitre, M. Schmitt, J.-J. Bourguignon, A. G. Mensah-Nyagan, F. Bihel & A. Eckert

8 - Scientific Reports, 2018, 8 (1), 11384

"Human erythrocytes release ATP by a novel pathway involving VDAC oligomerization independent of pannexin-1"
I. Marginedas-Freixa, C. Lilia Alvarez, M. Moras, M.-F. Leal Denis, C. Hattab, **F. Hallé**, F. Bihel, I. Mouro-Chanteloup, S.-D. Lefevre, C. Le Van Kim, P.-J. Schwarzbaum & M. A. Ostuni

7 - Comptes Rendus Chimie, 2018, 21 (11), 987-992

"Crystal structure and identification of a pyrimido[6,1-b][1,3]oxazin-6-one derivative from the reaction of acrolein with 5-(phenoxyethyl)-2-amino-2-oxazoline"
J. Guillon, S. Rubio, S. Savrimoutou, **F. Hallé**, S. Moreau, P. Sonnet & M. Marchiviec

6 - Angewandte Chemie International Edition, 2018, 57 (4), 1087–1090

"Emissive Synthetic Cofactors: Enzymatic Interconversions of ¹²A Analogues of ATP, NAD⁺, NADH, NADP⁺, and NADPH"
F. Hallé, A. Fin, A. R. Rovira & Y. Tor

5 - ChemistrySelect, 2017, 2 (22), 6452–6457

"Discovery of Imidazoquinazolinone Derivatives as TSPO Ligands Modulating Neurosteroidogenesis and Cellular Bioenergetics in Neuroblastoma Cells Expressing Amyloid Precursor Protein"
F. Hallé, I. Lejri, M. Abarghaz, A. Grimm, C. Klein, M. Maitre, M. Schmitt, J.-J. Bourguignon, A. G. Mensah-Nyagan, A. Eckert & F. Bihel

4 - ACS Medicinal Chemistry Letters, 2017, 8 (11), 1177–1182

" χ -Space Screening of Dermorphin-Based Tetrapeptides through Use of Constrained Arylazepinone and Quinolinone Scaffolds"
O. Van der Poorten, R. Van Den Hauwe, E. Eiselt, C. Betti, K. Guillemyn, N. N. Chung, **F. Hallé**, F. Bihel, P. W. Schiller, D. Tourwé, P. Sarret, L. Gendron & S. Ballet

3 - Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 2017, 1863 (12), 3016–3027

"The Translocator Protein Ligand XBD173 Improves Clinical Symptoms and Neuropathological Markers in the SJL/J Mouse Model of Multiple Sclerosis"
G. Leva, C. Klein, J. Benyounes, **F. Hallé**, F. Bihel, N. Collongues, J. De Seze, A.-G. Mensah-Nyagan & C. Patte-Mensah

2 - Tetrahedron Letters, 2016, 57 (14), 1547–1550

"Synthesis of 3-Amino-3,4-Dihydro-1H-Quinolin-2-Ones through Regioselective Palladium-Catalyzed Intramolecular Cyclization"
F. Hallé, O. Van der Poorten, C. Doebelin, M. Niederst, S. Schneider, M. Schmitt, S. Ballet & F. Bihel

1 - Scientific Reports, 2016, 6 (1), 33516

"TSPO Ligands Stimulate ZnPPiX Transport and ROS Accumulation Leading to the Inhibition of P. Falciparum Growth in Human Blood."
I. Marginedas-Freixa, C. Hattab, G. Bouyer, **F. Hallé**, A. Chene, S. D. Lefevre, M. Cambot, A. Cueff, M. Schmitt, B. Gamain, J. J. Lacapere, S. Egee, F. Bihel, C. Le Van Kim & M. A. Ostuni

Communications

4 oral communications (GFPP, JCI, Neurorhine) & 7 poster communications (ACS meeting, RICT, REGIO...)