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JPFrancoia

Nationality: French; Age: 28

H-index: 4

Jean-Patrick Francoïa

Education

2017-Today **Postdoctoral research assistant**, *University of Glasgow*, Scotland.

3D printing applied to chemistry

Supervisor: Prof. Leroy Cronin (lee.cronin@glasgow.ac.uk)

2013–2016 Ph. D. in chemistry, Université de Montpellier, France.

Supramolecular chemistry, biological chemistry, sensors Supervisor: Dr Laurent Vial (laurent.vial@univ-lyon1.fr)

2012–2013 Master in chemistry, with honours, Lund University, Sweden.

Professionnal experience, teaching activities

2013–2016 **Teaching assistant**, *Université de Montpellier*, France.

Laboratories in organic and general chemistry for undergraduate students (ca. 200 hours)

Nov. 2014 Direct mentor, Université de Montpellier, France.

Supervision of a master student (Lena Morin), for 5 weeks

2012–2013 **Training period**, *Lund University*, Sweden.

Organic synthesis, catalysis

Supervisor: Prof. Kenneth Wärnmark (Kenneth.Warnmark@chem.lu.se)

Apr. 2010- Training period, University of Whitewater, Wisconsin, United States.

June 2010 Organic synthesis, chemical biology

Supervisor: Prof. Catherine Chan (chanc@uww.edu)

Chemistry skills

Synthesis SPPS, multistep organic synthesis

Analysis Fluoresence spectroscopy, HPLC, NMR, ICP-OES

Modeling Amber, Gaussian, Spartan, VMD

Microbiology Culture of bacteria and model plants

Other 3D printing, CAD (Onshape, OpenSCAD), electronics (Arduino)

Computer skills

2010 C2i – "Certificat Informatique et Internet".

Developer of ChemBrows (www.chembrows.com).

Deep knowledge of Python, LaTeX, HTML, CSS, SQL, Bash, git. Basis with C/C++ and PHP Contributor to open-source projects (scikit-learn, Cura, etc). Daily usage of GNU/Linux

Publications

- Wetting the lock and key enthalpically favours polyelectrolytes binding E. Jeamet, J. Septavaux, A. Héloin, M. Donnier-Maréchal, M. Dumartin, B. Ourri, P. K. Mandal, I. Huc, E. Bignon, E. Dumont, C. Morell, J.-P. Francoia, F. Perret, L. Vial and J. Leclaire, *Chem. Sci.*, 2019. 10, 277
- 9. Digitization of multistep organic synthesis in reactionware for on-demand pharmaceuticals P. J. Kitson, G. Marie, J.-P. Francoia, S. S. Zalesskiy, R. C. Sigerson, J. S. Mathieson and L. Cronin, *Science*, 2018, **359**, 314 citation: 24
- 8. Everything you always wanted to know about poly-*L*-lysine dendrigrafts (but were afraid to ask) J.-P. Francoia and L. Vial, *Chem. Eur. J.*, 2017, **24**, 2806 citations : 2

- 7. Digitizing Poly-*L*-Lysine Dendrigrafts: from Experimental Data to Molecular Dynamics Simulations J.-P. Francoia, J.-C Rossi, G. Monard and L. Vial, *J. Chem. Inf. Model.*, 2017, 57, 2173 citations: 4
- 6. Chirality Sensing and Discrimination of Lysine Derivatives in Physiological Conditions with a Dyn[4]arene L. Vial, M. Dumartin, M. Donnier-Maréchal, F. Perret, J.-P. Francoia, J. Leclaire, *Chem. Commun.*, 2016, **52**, 14219 citation : 1
- 5. ChemBrows: An Open-Source Application Software To Keep Up to Date with the Current Literature J.-P. Francoia and L. Vial, *J. Chem. Educ*, 2016, **93**, 1137 open access, citation: 1
- 4. **A KISS (Keep It Simple, Sensor) Array for Glycosaminoglycans** J.-P. Francoia and L. Vial, *Chem. Commun.*, 2015, **51**, 17544 citations: 4
- 3. Monitoring Clinical Levels of Heparin in Human Blood Samples with an Indicator-Displacement Assay J.-P. Francoia, R. Pascal, and L. Vial, *Chem. Commun.*, 2015, **51**, 1953 citations: 13
- 2. A Double Conformationally Restricted Dynamic Supramolecular System for the Substrate-Selective Epoxidation of Olefins—A Comparative Study on the Influence of Preorganization E. Lindbäck, S. Cherraben, J.-P. Francoïa, E. Sheibani, B. Lukowski, A. Proñ, H. Norouzi-Arasi, K. Månsson, P. Bujalowski, A. Cederbalk, T. H. Pham, T. Wixe, S. Dawaigher and K. Wärnmark, *ChemCatChem*, 2015, **7**, 333 citation: 1
- Multi-Technique Characterization of Poly-L-lysine Dendrigrafts-Cu(II) Complexes for Biocatalysis J.-C. Rossi, B. Maret, K. Vidot, J.-P. Francoia, M. Cangiotti, S. Lucchi, C. Coppola, and M. F. Ottaviani, *Macromol. Biosci.*, 2015, 15, 275 - citations: 8

Conferences

Slides and posters available at https://github.com/JPFrancoia/PostersSlides

8. **Welcome Genome Campus Hackathon 2018**, *Hinxton, United Kingdom*. Medicine Discovery Catapult's challenge:

How can we combine drug and genetic data to intelligently prescribe drugs?

- RSC Twitter Poster Conference 2018, Twitter, World. Poster presentation
- 6. JMJC 2016 (Journées Méditerranéennes des Jeunes Chercheurs), *Nice, France*. Poster presentation
- 5. **MSMLG 2016 (Molecular Sensors and Molecular Logic Gates)**, *Bath, United Kingdom*. Oral presentation and poster presentation
- 4. JMJC 2015 (Journées Méditerranéennes des Jeunes Chercheurs), Montpellier, France.
 Oral presentation
- 3. **MeMoSim 2015 (Modeling Methods and multiscale Simulations)**, *Lyon, France*. Poster presentation
- 2. Balard Chemistry Conferences 2014, La Grande Motte, France. Poster presentation
- 1. **JJC 2014 (Journées des Jeunes Chercheurs)**, *Montpellier, France*. Poster presentation

Hobbies

Martial arts.

Kyokushinkai karate, brazilian jiu-jitsu, Muay-thaï, Krav-maga, Sambo, Tae Kwon do

Cuban and L.A. style