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EDUCATION

- 2003 **PhD** in Organic Chemistry from the University of Geneva (Switzerland)
1999 **MSc** in Chemistry from the University of Lyon (France)

PROFESSIONAL EXPERIENCE

Research activity:

- 2006 - to date **CNRS Research Scientist**, currently at the University Lyon (France)
2004 - 2006 **Marie Curie Research Fellow** at the University of Cambridge (United Kingdom)
1999 - 2004 **Graduate Research Assistant** at the University of Geneva (Switzerland)

Teaching activity:

- 2000 - to date **Teaching Associate** in Organic, Supramolecular, Inorganic or Physical Chemistry at, successively, the University of Geneva, Cambridge, Grenoble, Montpellier, and Lyon (+700 hours)

Professional and Community Service:

- 2011 - 2016 **Associate Editor** of New Journal of Chemistry (RSC Publishing), +800 manuscripts handled
2020 - to date **President** of the French Chemical Society's Supramolecular Chemistry Group

LATEST PUBLICATIONS

*Total number of citations: 2716, * indicates corresponding author(s):*

"Size Matters: About the Binding of Protamine with Heparin of Various Lengths from Molecular Dynamics Simulations"
B. Ourri, G. Monard*, **L. Vial***

[2022, submitted for publication](#)

"Dyn[n]arenes: Versatile Platforms to Study the Interplay between Covalent and Non-covalent Bonds"

L. Vial*, F. Perret*, J. Leclaire*

[Eur. J. Org. Chem. 2022, e202101274 - highlighted as the Front Cover - selected as VIP - open access](#)

"Encoding Stereochemical Molecular Information on Cyclophanes using Non-directional Interactions and Achiral Building Blocks"

Y. Zhang, B. Ourri, P.-T. Skowron, E. Jeamet, A. M. Belenguer, N. Vanthuyne, O. Cala, P. K. Mandal, C. Duchamp, E., F. Perret, **L. Vial**, I. Huc, J. Leclaire*

[ChemRxiv, 2021, 10.26434/chemrxiv-2021-p1kvx_ - open access](#)

"The Dark Side of Disulfide-based Combinatorial Chemistry"

M. Dumartin, J. Septavaux, M. Donnier-Maréchal, E. Jeamet, E. Dumont, F. Perret*, **L. Vial***, J. Leclaire*

[Chem. Sci. 2020, 11, 8151 - open access](#)

"Make Anticoagulation Great Again"

L. Vial*, B. Ourri

[L'Act. Chim. 2020, 450, 63 - in French](#)

"Lost in (Clinical) Translation: Recent Advances in Heparin Neutralization and Monitoring"

B. Ourri, L. Vial*

[ACS Chem. Biol. 2019, 14, 2512](#)

"Dendrigrraft of Poly-L-lysine as a Promising Candidate to Reverse Heparin-based Anticoagulants in Clinical Settings"

B. Ourri, J.-P. Francoia, G. Monard*, J.-C. Gris*, J. Leclaire, L. Vial*

[ACS Med. Chem. Lett. 2019, 10, 917](#) - highlighted in C&EN

"Wetting the Lock and Key Enthalpically Favours Polyelectrolytes Binding"

E. Jeamet, J. Septavaux, A. Héloin, M. Donnier-Maréchal, M. Dumartin, B. Ourri, P. Mandal, I. Huc, E. Bignon, E. Dumont*, C. Morell, J.-P. Francoia, F. Perret, L. Vial*, J. Leclaire*

[Chem. Sci. 2019, 10, 277](#) - open access

"Diastereoselective Synthesis of a Dyn[3]arene with Distinct Binding Behaviors toward Linear Biogenic Polyamines"

M. Donnier-Maréchal, J. Septavaux, E. Jeamet, F. Perret, A. Héloin, E. Dumont, J.-C. Rossi, F. Ziarelli, J. Leclaire*, L. Vial*

[Org. Lett. 2018, 20, 2420](#)

"Everything You Always Wanted to Know about Poly-L-Lysine Dendrigrrafts (But Were Afraid to Ask)"

J.-P. Francoia, L. Vial*

[Chem. Eur. J. 2018, 24, 2806](#)

"Digitizing Poly-L-Lysine Dendrigrrafts: from Experimental Data to Molecular Dynamics Simulations"

J.-P. Francoia, J.-C. Rossi, G. Monard*, L. Vial*

[J. Chem. Inf. Model. 2017, 57, 2173](#)

"Chirality Sensing and Discrimination of Lysine Derivatives in Water with a Dyn[4]arene"

L. Vial*, M. Dumartin, M. Donnier-Maréchal, F. Perret, J.-P. Francoia, J. Leclaire*

[Chem. Commun. 2016, 52, 14219](#)

"ChemBrows: An Open-Source Application Software to Keep Up to Date with the Current Literature"

J.-P. Francoia, L. Vial*

[J. Chem. Educ. 2016, 93, 1137](#) - open access

"On-demand Cyclophanes: Substituent-directed Self-assembling, Folding and Binding"

P.-T. Skowron, M. Dumartin, E. Jeamet, F. Perret, C. Gourlaouen, A. Baudouin, B. Fenet, J.-V. Naubron, F. Fotiadu, L. Vial, J. Leclaire*

[J. Org. Chem. 2016, 81, 654](#)

"A KISS (Keep It Simple, Sensor) Array for Glycosaminoglycans"

J.-P. Francoia, L. Vial*

[Chem. Commun. 2015, 51, 17544](#)

"Monitoring Clinical Levels of Heparin in Human Blood Samples with an Indicator-Displacement Assay"

J.-P. Francoia, R. Pascal, L. Vial*

[Chem. Commun. 2015, 51, 1953](#)