

Dr. Julien Christian Vantourout

CNRS Researcher – ICBMS – Université Lyon 1

Email: julien.vantourout@univ-lyon1.fr – Phone: +33 6 41 52 82 46 – ORCID: 0000-0002-0602-069X

EDUCATION AND RESEARCH POSITIONS

- Since 12/2020:** CNRS Researcher, ICBMS, Université Lyon 1, France
Synthesis, Chemistry, Organometallic and Redox laboratory (SCORE Lab)
- 01/2019 – 11/2020:** Staff Scientist, Department of Chemistry, Scripps Research, CA, USA
Research Advisor: Prof. Phil S. Baran
- 04/2018 – 12/2018:** Postdoctoral Research
Scripps Research, CA, USA
Research Advisor: Prof. Phil S. Baran
- 09/2014 – 03/2018:** PhD, Organic and Synthetic Chemistry
GlaxoSmithKline-University of Strathclyde, UK
Research Advisors: Dr. Allan J. B. Watson, Dr. Albert Isidro-Llobet
- 09/2011 – 06/2014:** MSc, Organic and Synthetic Chemistry
University of Lyon I, France
Research Advisor: Prof. Olivier Baudoin

SUMMARY of SCIENTIFIC ACHIEVEMENTS

41 publications (h-index = 19, number of citations = 1712) – 1 book chapter – 2 patents

<i>Science</i> (2)	<i>ACS. Cent. Sci.</i> (2)	<i>PNAS</i> (2)
<i>Nature</i> (1)	<i>Eur. J. Org. Chem</i> (1)	<i>Elsevier</i> (1)
<i>Nat. Chem.</i> (1)	<i>Angew. Chem. Int. Ed.</i> (4)	<i>Org. Lett.</i> (3)
<i>J. Am. Chem. Soc.</i> (8)	<i>ACS Catal.</i> (2)	<i>J. Org. Chem.</i> (2)
<i>Org. Process Res. Dev.</i> (3)	<i>Asian J. Org. Chem.</i> (1)	<i>Acc. Chem. Res.</i> (1)
<i>MedChemComm</i> (1)	<i>Chem. Rev.</i> (1)	<i>Bioconjug. Chem.</i> (1)
<i>Isr. J. Chem.</i> (1)	<i>Org. Synth.</i> (1)	<i>Tetrahedron Lett.</i> (1)
<i>Adv. Synth. Catal</i> (1)	<i>Org. Biomol. Chem.</i> (1)	<i>ChemRxiv</i> (1)

10 oral communications and 7 posters

Reviewing activity for several journals including *J. Am. Soc. Chem.* (IF 15.4); *Angew. Chem. Int. Ed.* (IF 15.3); *ACS Catal.* (IF 12.4); *Org. Lett.* (IF 6.1); *J. Org. Chem.* (IF 4.4).

SELECTED RESEARCH ARTICLES

1. S. Charvet, M. Médebielle, and **J. C Vantourout***. Mn-Mediated α -Radical Addition of Carbonyls to Olefins: Systematic Study, Scope, and Electrocatalysis *J. Org. Chem.* **2022**. Just accepted.
2. K. Grollier, C. Ghiazza, A. Tlili, T. Billard, M. Médebielle, and **J. C Vantourout***. Electrochemical trifluoromethylselenolation of alkyl halides. *Eur. J. Org. Chem.* **2022**. Just accepted.
3. **J. C Vantourout**, A. M. Mason, J. Yuen, G. L. Simpson, G. Evindar, L. Kuai, M. Hobbs, E. Edgar, S. Needle, C-w. Chung, S. Pal, D. A. Holt, L. S. Kallander, J. Prendergast, K. Rivera, D. G. Washburn, M. R. Harpel, C. Arico-Muendel and A. Isidro-Llobet. *In vivo* half-Life extension of BMP1/TLL metalloproteinase inhibitors using small-molecule human serum albumin binders. *Bioconjugate Chem.* **2021**, *32*, 279–289.

4. **J. C Vantourout**, S. R. Adusumalli, K. W. Knouse, D. T. Flood, A. Ramirez, N. M. Padial, A. Israte, K. Maziarz, J. N. deGruyter, R. R. Merchant, J. X. Qiao, M. A. Schmidt, M. J. Deery, M. D. Eastgate, P. E. Dawson, G. J. L. Bernardes and P. S. Baran. Serine-selective bioconjugation. *J. Am. Chem. Soc.* **2020**, *142*, 17236–17242.
5. Y. Kawamata, **J. C. Vantourout**, D. P. Hickey, P. Bai, L. Chen, Q. Hou, W. Qiao, K. Barman, M. A. Edwards, A. F. Garrido-Castro, J. N. deGruyter, H. Nakamura, K. Knouse, C. Qin, K. J. Clay, D. Bao, C. Li, J. T. Starr, C. Garcia-Irizarry, N. Sach, H. S. White, M. Neurock, S. D. Minter and P. S. Baran. Electrochemically driven, Ni-catalyzed aryl amination: Scope, mechanism, and applications. *J. Am. Chem. Soc.* **2019**, *141*, 6392–6402.
6. **J. C. Vantourout**, L. Li, E. Bendito-Moll, S. Chabbra, K. Arrington, B. E. Bode, A. Isidro-Llobet, J. A. Kowalski, M. G. Nilson, K. M. P. Wheelhouse, J. L. Woodard, S. Xie, D. C. Leitch, and A. J. B. Watson Mechanistic insight enables practical, scalable, room temperature Chan-Lam *N*-arylation of *N*-aryl sulfonamides. *ACS Catal.* **2018**, *8*, 9560–9566.
7. **J. C. Vantourout**, H. N. Miras, A. Isidro-Llobet, S. Sproules, and A. J. B. Watson. Spectroscopic studies of the Chan-Lam amination: A mechanism-inspired solution to boronic ester reactivity. *J. Am. Chem. Soc.* **2017**, *139*, 4769–4779.
8. **J. C. Vantourout**, R. P. Law, A. Isidro-Llobet, S. J. Atkinson, and A. J. B. Watson. Chan-Evans-Lam amination of boronic acid pinacol (BPin) esters: Overcoming the aryl amine problem. *J. Org. Chem.* **2016**, *81*, 3942–3950.

ON GOING SCIENTIFIC COLLABORATIONS

- Since 2022: Minakem, France.
Project: Electrochemical cyclopropane ring formation from dialkyl bromides.
- Since 2022: Prof. K. Engle, Scripps Research, USA.
Project: Electro-Catalytic Alkene (Hetero)Annulation

SELECTED GRANTS AND FELLOWSHIPS

- 2022: “International Emerging Action” CNRS grant (14,000 euros)
 e-CATHA project (Electro-Catalytic Alkene (Hetero)Annulation) in collaboration with Prof. Keary Engle.
- 2021: “Amorçage Europe” grant (as part of ERC application process, 20,200 euros)
 MERCI project (Manganese Electrochemical Reactions for Continuous Innovation)
- 2018: Marie Skłodowska-Curie Individual Global Fellowship (EU project 843161; Grade: 96.8%; Ranking: 6 out of 870 applications; \$277,000 for 3 years; Success rate: 8.9%)

SELECTED AWARDS

- 2022: Marc Julia “Emerging Academic” Award from the Division Chimie Organique, France.
- 2021: Green Chemistry Challenge Award from the Environmental Protection Agency, USA.
- 2018: Marie Skłodowska-Curie Individual Global Fellowship.
- 2018: 1st Alpine Conference on Synthetic Chemistry Poster Prize, St Anton, Austria.
- 2017: SCI Young Chemist in Industry prize winner, Macclesfield, UK.
- 2017: ACS Axiom prize for the most read publication in the Journal of Organic Chemistry.
- 2016: Most Outstanding Industrial PhD Student Award, Stevenage, UK.