

## VILIUS FRANCKEVIČIUS

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### CURRENT POSITION (March 2013 – present)

#### **Lecturer, Department of Chemistry, Lancaster University, UK**

- Development of a research programme in the areas of new organic methodology development, sustainable enantioselective catalysis and 3D fragment synthesis.
- Collaborative research in the design and synthesis of new porous materials, as well as new chemical biology probes to interfere with mechanisms involved in cancer and atherosclerosis.
- Successful design of new undergraduate modules in organic chemistry at all levels.
- Effective teaching of undergraduate students as demonstrated by some of the highest teaching scores in the department and consistently excellent student feedback throughout.
- Successful execution of academic leadership roles of significant responsibility at University, Faculty and departmental level, particularly in the area of Equality, Diversity and Inclusion.

### PREVIOUS POSITIONS

#### **Research and Teaching Fellow, University of York, UK (August 2010 – February 2013)**

- Senior post-doctoral researcher in the group of Professor Richard J K Taylor.
- Joint and independent research in the areas of synthetic method development and total synthesis.
- Tutor of UG and PG organic chemistry courses through tutorials, workshops and theory classes.

#### **Post-Doctoral Researcher, Ludwig Maximilians University of Munich, Germany (March 2009–July 2010)**

- Researcher in the group of Professor Dirk Trauner.
- Research in the area of chemical biology and neuroscience.
- Mentoring and practical supervision of undergraduate and post-graduate laboratory students.

### ACADEMIC AND PROFESSIONAL QUALIFICATIONS

#### **PhD, University of Cambridge, UK (October 2005 – November 2008)**

- Supervisor: Professor Steven V Ley.
- ‘Practical Applications of Pyrrolidinyl Tetrazole in Multicomponent Reactions and Ibogamine Synthesis’.
- Tutor of all Bachelors and Masters organic chemistry courses for six Cambridge University colleges.

#### **MSci, University of Cambridge, UK (October 2001 – July 2005)**

- *First Class with Honours* in Natural Sciences (Chemistry).
- Recipient of the Cambridge Overseas Trust Scholarship and Fellowship; Scholar of Fitzwilliam College.

#### **Highest Teaching Qualification: Post-Graduate Certificate in Academic Practice Module 2 (July 2015)**

- Fellow of the Higher Education Academy.

### PUBLICATIONS

#### **Publications in Peer-Reviewed Journals \***

1. M. Kenny, S. P. Schröder, N. J. Taylor, P. Jackson, D. J. Kitson and **V. Franckevičius**, “Palladium-Catalysed Construction of All-Carbon Quaternary Centres with Propargylic Electrophiles: Challenges in the Simultaneous Control of Regio-, Chemo- and Enantioselectivity”, *Synthesis* **2018**, *50*, 1796-1814.
2. M. Kenny, D. J. Kitson and **V. Franckevičius**, “Catalytic Chemo- and Regioselective Coupling of 1,3-Dicarbonyls with *N*-Heterocyclic Nucleophiles”, *J. Org. Chem.* **2016**, *81*, 5162-5172.
3. **V. Franckevičius**, “Palladium-catalyzed construction of quaternary carbon centers with propargylic electrophiles”, *Tetrahedron Letters* **2016**, *57*, 3586-3595.
4. L. Laprell, E. Repak, **V. Franckevičius**, F. Hartrampf, M. Sumser, D. DiGregorio and D. Trauner, “Optical Control of NMDA Receptors with a Diffusible Photoswitch”, *Nature Communications*, **2015**, *6*, 8076-8086.
5. M. Kenny, J. Christensen, S. J. Coles and **V. Franckevičius**, “Regioswitchable Palladium-Catalyzed Decarboxylative Alkenylation of 1,3-Dicarbonyl Compounds”, *Org. Lett.* **2015**, *15*, 3926-3929.
6. S. Schröder, N. Taylor, P. Jackson and **V. Franckevičius**, “Catalytic Decarboxylative Alkenylation of Enolates”, *Org. Lett.*, **2013**, *15*, 3778-3781.

7. C. L. Moody, **V. Franckevičius**, P. Drouhin, J. E. M. N. Klein and R. J. K. Taylor, “Copper-Catalysed Approach to Spirocyclic Oxindoles *via* a Direct C–H, Ar–H Functionalisation”, *Tetrahedron Lett.* **2012**, *53*, 1897-1899.
8. **V. Franckevičius**, J. D. Cuthbertson, M. Pickworth, D. S. Pugh and R. J. K. Taylor, “Asymmetric Decarboxylative Allylation of Oxindoles”, *Org. Lett.* **2011**, *13*, 4264-4267. Featured in *Synfacts* **2011**, *10*, 1087.
9. A. C. Evans, D. A. Longbottom, M. Matsuoka, J. E. Davies, R. Turner, **V. Franckevičius** and S. V. Ley, “Highly Diastereoselective Desymmetrisation of Cyclic *meso*-Anhydrides and Derivatisation for Use in Natural Product Synthesis”, *Org. Biomol. Chem.* **2009**, *7*, 747-760.
10. D. A. Longbottom, **V. Franckevičius**, S. Kumarn, A. J. Oelke, V. Wascholowski and S. V. Ley, “Practical Organocatalysis with (*S*)- and (*R*)-5-Pyrrolidin-2-yl-1*H*-tetrazole: A Review”, *Aldrichimica Acta* **2008**, *41*, 3-11.
11. V. Aureggi, **V. Franckevičius**, M. O. Kitching, S. V. Ley, D. A. Longbottom, A. J. Oelke and G. Sedelmeier, “(*S*)-5-Pyrrolidin-2-yl-1*H*-tetrazole”, *Org. Synth.* **2008**, *85*, 72-87.
12. D. A. Longbottom, **V. Franckevičius** and S. V. Ley, “(*S*)- and (*R*)-5-Pyrrolidin-2-yl-1*H*-tetrazoles: Enantiomeric Organocatalysts of Broad Utility in Organic Synthesis”, *Chimia* **2007**, *61*, 247-256.
13. **V. Franckevičius**, D. A. Longbottom, R. M. Turner and S. V. Ley, “8,9,10,10a-Tetrahydro-6*H*-tetrazolo[1,5-*a*]pyrrolo[2,1-*c*]pyrazines: New Heterocyclic Frameworks Generated by an Ugi-Type Multicomponent Reaction”, *Synthesis* **2006**, 3215-3223.
14. **V. Franckevičius**, K. Rahbek Knudsen, M. Ladlow, D. A. Longbottom and S. V. Ley, “Practical Synthesis of (*S*)-Pyrrolidin-2-yl-1*H*-tetrazole, Incorporating Efficient Protecting Group Removal by Flow-Reactor Hydrogenolysis”, *Synlett* **2006**, 889-892.
15. S. A. Cotton, **V. Franckevičius**, M. F. Mahon, L. L. Ooi, P. R. Raithby and S. J. Teat, “Structures of 2,4,6-Tri- $\alpha$ -pyridyl-1,3,5-triazine Complexes of the Lanthanide Nitrates; A Study in the Lanthanide Contraction”, *Polyhedron* **2006**, *25*, 1057-1068.
16. D. S. Surry, X. Su, D. J. Fox, **V. Franckevičius**, S. J. F. Macdonald and D. R. Spring, “Medium-Ring and Iodinated Biaryl Synthesis by Organocuprate Oxidation”, *Angew. Chem. Int. Ed.* **2005**, *44*, 1870-1873.
17. S. A. Cotton, **V. Franckevičius**, R. E. How, B. Ahrens, L. L. Ooi, M. F. Mahom, P. R. Raithby and S. J. Teat, “Synthesis of Complexes of 2,2': 6', 2"-Terpyridine and 1,10-Phenanthroline with Lanthanide Thiocyanates; the Molecular Structures of [Ln(terpy)<sub>2</sub>(NCS)<sub>3</sub>] (Ln = Pr, Nd), [Nd(terpy)<sub>2</sub>(NCS)<sub>3</sub>].2EtOH and Ln(phen)<sub>3</sub>(NCS)<sub>3</sub>.EtOH (Ln = Pr, Nd)”, *Polyhedron* **2003**, *22*, 1489-1497.
18. S. A. Cotton, **V. Franckevičius** and J. Fawcett, “Benchmark Compounds. Structures of Cobalt(II) Complexes of Triphenylphosphine- and Triphenylarsine Oxides”, *Transition Met. Chem.* **2002**, *27*, 38-41.
19. S. A. Cotton, **V. Franckevičius** and J. Fawcett, “Syntheses and Structures of Iron(III) Complexes of Simple *N*-donor Ligands”, *Polyhedron* **2002**, *21*, 2055-2061.

**Peer-Reviewed Conference Publications \***

20. H. Fanning, **V. Franckevičius**, P. Jackson, M. Kenny, D. J. Kitson, T. M<sup>c</sup>Ardle-Ismaguilov, C. M. Riley, S. P. Schröder and N. J. Taylor, *Poster presentation* “Catalytic Construction of Quaternary Centres: Exploring New Areas of 3D Chemical Space”, EPSRC Dial-a-Molecule Annual Meeting 2018: Enabling Synthesis, London UK, **July 2018**.
21. H. Fanning, **V. Franckevičius**, P. Jackson, M. Kenny, D. J. Kitson, T. M<sup>c</sup>Ardle-Ismaguilov, C. M. Riley, S. P. Schröder and N. J. Taylor, *Poster presentation* “Catalytic Construction of Quaternary Centres: Exploring New Areas of 3D Chemical Space”, EPSRC Dial-a-Molecule Early Career Researcher Meeting – Supporting Synthesis & Self-Assembly, Liverpool UK, **June 2017**.
22. M. Kenny, S. P. Schröder, N. J. Taylor, P. Jackson and **V. Franckevičius**, *Poster presentation* “Catalytic Decarboxylative Alkenylation of Enolates”, RSC North West Organic Division Regional Meeting, University of Manchester, Manchester UK, **May 2017**.
23. M. Kenny, S. P. Schröder, N. J. Taylor, P. Jackson and **V. Franckevičius**, *Conference abstract and poster presentation* “Catalytic Decarboxylative Alkenylation of Enolates”, 22<sup>nd</sup> Lakeland (Grasmere) Heterocyclic Chemistry Conference, Grasmere, UK, **August 2015**.

24. **V. Franckevičius**, D. A. Longbottom and S. V. Ley, *Conference abstract and poster presentation* “Towards a Total Synthesis of Ibogamine”, Belgian Organic Synthesis Symposium (BOSS) XI, Ghent, Belgium, **July 2008**.
25. **V. Franckevičius**, D. A. Longbottom and S. V. Ley, *Conference abstract and poster presentation* “Towards a Total Synthesis of Ibogamine”, International Symposium on Advances in Synthetic and Medicinal Chemistry ASMC 07, St. Petersburg, Russia, **August 2007**.

#### **Oral Contributions to Symposia**

1. **V. Franckevičius**, *Invited oral presentation* “Palladium-Catalysed Construction of Quaternary Carbon Centres”, RSC Organic Chemistry North West Regional Meeting, Lancaster University, UK, **May 2019**.
2. **V. Franckevičius**, *Oral presentation* “Palladium-Catalysed Heterocycle Synthesis”, 2018 Gregynog Synthesis Workshop, Gregynog, UK, **September 2018**.
3. **V. Franckevičius**, *Oral presentation* “Catalytic Construction of Quaternary Centres: Exploring New Areas of 3D Chemical Space”, EPSRC Dial-a-Molecule Annual Meeting 2018: Enabling Synthesis, London UK, **July 2018**.
4. **V. Franckevičius**, *Oral presentation* “Catalytic Construction of Quaternary Centres: Exploring New Areas of 3D Chemical Space”, EPSRC Dial-a-Molecule Annual Meeting – Transforming Chemical Synthesis, Liverpool UK, **June 2017**.
5. **V. Franckevičius**, *Oral presentation* “Catalytic Construction of Quaternary Centres: Exploring New Areas of 3D Chemical Space”, EPSRC Dial-a-Molecule Early Career Researcher Meeting – Supporting Synthesis & Self-Assembly, Liverpool UK, **June 2017**.
6. **V. Franckevičius**, *Oral presentation* “Towards the Palladium-Catalysed Spirocyclic Synthesis”, 2016 Gregynog Synthesis Workshop, Gregynog, UK, **September 2016**.
7. **V. Franckevičius**, *Invited oral presentation* “Palladium-Catalysed Decarboxylative Alkenylation of Enolates”, RSC Organic Chemistry North West Regional Meeting, University of Central Lancashire, UK, **May 2016**.
8. **V. Franckevičius**, *Invited oral presentation* “Catalytic Decarboxylative Alkenylation of Enolates”, 2<sup>nd</sup> Hans Suschitzky Organic Chemistry Symposium, University of Salford, UK, **April 2015**.
9. **V. Franckevičius**, *Oral presentation* “Catalytic Decarboxylative Alkenylation of Enolates”, 2014 Gregynog Synthesis Workshop, Gregynog, UK, **September 2014**.

#### **Other Research Presentations**

10. **V. Franckevičius**, *Oral presentation* “Mighty Metals: Expediting Drug Discovery”, Public lecture as part of FST ‘Unlocking the Future’ lecture series, Lancaster, UK, **November 2014**.
11. **V. Franckevičius**, *Oral presentation* “Drug Discovery and Development: Challenges to the Synthetic Chemist”, FST Christmas lecture, Lancaster, UK, **December 2013**.