

Curriculum Vitae VALERIO FASANO

Group Website: www.fasanolab.com

• RESEARCH EXPERIENCE

Current position (since Jan 2023): Tenure Track Assistant Professor (RTD-B), University of Milan, Italy.

Research interests: functionalization of heterocycles, active pharmaceutical ingredients, natural products.

Since Feb 2022: National Scientific Habilitation to Associate Professorship in Organic Chemistry (ASN 2021-23, Bando D.D. 553/2021 Settore Concorsuale 03/C1 Chimica Organica, II Fascia)

Previous Research Experiences:

- Visiting Professor (March-April 2022), University of Milan, Italy.

Design and delivery of a course for PhD students in Chemistry entitled “Recent Strategies in Organoboron Chemistry”.

- EPSRC Doctoral Prize Fellow (2019-2021), University of Bristol, UK.

Project funded: ‘Automating homologations of boronic esters’. Supervisor: Prof. V. Aggarwal, FRS.

In October 2021 promoted to PhD Course Manager (administration, teaching, interviews, budget management).

- RSC Visiting Researcher (Sep-Dec 2017), University of Toronto, Canada.

Project funded: ‘CF₃-Substituted Electrophilic Phosphonium Cations’. Supervisor: Prof. D. W. Stephan, FRS.

- Research Associate (Mar-Jul 2015), University of Manchester, UK.

Project funded: ‘The Reactivity of Boron Electrophiles’. Supervisor: Prof. M. Ingleson.

- EU Visiting Researcher (Feb-Jul 2014), University of Lund, Sweden.

Project funded: ‘Photoredox-Catalyzed Michael Additions’. Supervisor: Prof. P. Somfai.

• EDUCATION

- Ph.D. in Chemistry (21 Sep 2015 – 31 Mar 2019), entitled ‘Water/Base Tolerance in Frustrated Lewis Pair Chemistry with Boron, Carbon and Phosphorus Lewis Acids’. Supervisor: Prof. M. Ingleson, University of Manchester, UK.

- MSc Degree in Chemistry (16 Oct 2014), entitled ‘Photoredox-Catalyzed Michael Additions’. Supervisor: Prof. M. Bandini, University of Bologna, Italy. Degree: 110/110 cum laude.

- Diploma in Chemistry at Institute for Advanced Studies (2013, University of Catania, Italy), entitled ‘Incorporation of Drugs in Silica-Gel Nanoparticles’. Supervisor: Prof. L. Prodi, University of Bologna, Italy. Degree: 70/70 cum laude.

- BSc Degree in Chemistry (27 Jul 2012), entitled ‘Asymmetric Reduction of a Racemic Ferrocenyl Ketone’. Supervisor: Prof. D. Sciotto, University of Catania, Italy. Degree: 110/110 cum laude.

• TEACHING EXPERIENCE

Since 2023: *Concepts and Methods in Organic Synthesis* (Industrial Chemistry) - University of Milan.

2024: *Novel Approaches for the Structural Design of Bioactive Molecules* - University of Milan.

2023: *New Methodologies for Synthesis and Modification of Natural Products* - University of Milan.

2023: *Organic Chemistry Laboratory* (Industrial Chemistry Y2) - University of Milan.

2022: *Recent Strategies in Organoboron Chemistry* - University of Milan.

2021: *Organic Chemistry* (tutorial/marking for 2nd-year undergraduates) - University of Bristol.

2019 – 2021: *Technology/Automation in Organic Chemistry* (training for 1st-year PhD students) - Univ. of Bristol.

2016 – 2018: *Organic Chemistry* (Lab Demonstrator) - University of Manchester.

• SELECTED PUBLICATIONS (full list available [here](#))

6. A. Montoli, A. Dimasi, A. Citarella, P. Ronchi, D. Passarella, V. Fasano*

Metal-free, Selective Ortho-Deuteration of N-heterocyclic Oxides

Adv. Synth. Catal. 2025, *e202401585*

5. A. Dimasi, M. Failla, A. Montoli, A. Citarella, P. Ronchi, D. Passarella, V. Fasano*

First total synthesis of caerulomycin K: a case study on selective, multiple C–H functionalizations of pyridines.

RSC Advances 2024, *14*, 55425

4. V. Fasano, R. C. Mykura, J. M. Fordham, J. J. Rogers, B. Banecki, A. Noble, V. K. Aggarwal*

Automated Stereocontrolled Assembly-Line Synthesis of Organic Molecules.

Nature Synthesis 2022, *1*, 902

3. V. Fasano, A. W. McFord, C. P. Butts, B. S. L. Collins, N. Fey, R. W. Alder, V. K. Aggarwal*

How big is the pinacol boronic ester as substituent?

Angew. Chem. Int. Ed. 2020, *59*, 22403

2. V. Fasano, N. Winter, A. Noble, V. K. Aggarwal*

Divergent, stereospecific mono- and difluoromethylation of boronic esters.

Angew. Chem. Int. Ed. 2020, *59*, 8502

1. V. Fasano, J. Cid, R. J. Procter, M. J. Ingleson*

Selective boryl-anion migration in a vinyl sp²–sp³ diborane induced by soft borane Lewis acids.

Angew. Chem. Int. Ed. 2018, *57*, 13293

- **FUNDING AWARDED**

- 1 PhD scholarship within my research group co-sponsored by Chiesi Farmaceutici (€ 40,500).
- EPSRC Doctoral Prize Fellowship to carry out my postdoc at the Univ. of Bristol (UK).
- RSC Mobility Grant to carry out my research experience at the University of Toronto (Canada).
- Erasmus Grant to carry out my research experience at the University of Lund (Sweden).

- **SUPERVISION OF GRADUATE STUDENTS; PhD POSTDOC STUDENTS**

- Since 2023 10 overall – 2 PhD students, 8 MSc/BSc students, University of Milan, Italy

- **INSTITUTIONAL RESPONSIBILITIES**

Since 2024 - Scientific Board of [International Summer School of Natural Products](#)

Since 2023 - Scientific Board and Organising Committee of [International School of Process Chemistry](#)

Since 2023 - Member Council (Giunta) of Department of Chemistry (Univ. of Milan)

- **REVIEWING AND EDITORIAL ACTIVITIES**

2024: Book chapters of the Italian Edition of “*Solutions Manual to accompany Organic Chemistry*” (by J. Clayden, S. G. Warren, Editor: OUP Oxford): invited translation by Piccin Nuova Libreria Editor.

2023 Guest Editor for *European Journal of Organic Chemistry* (Wiley). [Link to the editor](#)

2023 Guest Editor for *Frontiers in Natural Product* (Frontiers). [Link to the editor](#)

Reviewer for *ACS Catal.* (ACS), *Chem. Commun.* (RSC), *EurJOC* (Wiley). [Link to the reviewer](#)

- **AWARDS**

2022 *Young Researcher Award – methodologies in organic chemistry* – Società Chimica Italiana (Italy)

2021 *Best Oral Communication at XLV "A. Corbella" Summer School* – University of Milan (Italy)

2021 *Conference Grant to present at “XXVII Congresso Nazionale”* – Società Chimica Italiana (Italy)

2020 *Benzocaine Innovation power* - Evonik (Germany)

2019 *STEM for Britain - Chemistry* - House of Parliament in London (UK)

2018 *Syngenta Scholarship in Organic Chemistry* - Bracknell (UK)

2018 *Doctoral Researcher Award ABTA* - University College London (UK)

2012 *Award Prize* – top-three 2nd-year chemistry student at the University of Catania (Italy)

2012 *Cambridge Chemistry Challenge online competition* - Cambridge (UK)

- **PRESENTATION AT CONFERENCES**

2024: Talk at China-Italy Bilateral Symposium of Organic Chemistry, HangZhou (China)

2022. Talk at “XL Convegno Nazionale della Divisione di Chimica Organica”, University of Palermo.

2021. Talk and Poster at “XXVII Congresso Nazionale”, Società Chimica Italiana.

2021. Talk at “Athens Summer School on Organic Synthesis 2021”, University of Athens.

2021. Talk at “Dalton 2021”, University of Warwick.

2021. Talk at “XLV A. Corbella International Summer School”, University of Milan.

2019. Poster at “STEM for Britain”, British Parliament, Westminster, London.

2018. Invited talk at “Doctoral Researcher Award ABTA”, University College London.

2018. Poster at “Dalton 2018”, University of Warwick.

2017. Flash talk at “ISACS: Challenges in Inorganic Chemistry”, University of Manchester.

2016. Poster at “BORAM 2016”, Queen's University, Canada.

2016. Poster at “UK-Japanese Asymmetric Catalysis Symposium”, University of Manchester.

Invitation as a speaker:

03/04/2025: Universidad Nacional de Rosario, Argentina (remote, Host: Prof. Martín J. Riveira)

27/03/2025: Università di Parma, Italy (Host: Dr. Matteo Lanzi)

11/03/2024: Università di Padova (Italy)

13/10/2023 Università di Bari, Italy (Host: Prof. Renzo Luisi)

27/04/2023 Chiesi Farmaceutici, Italy (Host: Dr. Paolo Ronchi)

26/04/2023 Università di Bologna, Italy (Host: Prof. Marco Bandini)

22/03/2023 Università del Piemonte Orientale, Italy (Host: Dr. Diego Caprioglio)

- **PUBLIC ENGAGEMENT**

2024 - Organiser of *Joint meeting on Natural Products* (Symposium at University of Milan)

Since 2023 - *CHIMIallena*: training in organic chemistry for students preparing for Giochi della Chimica

2023 - Organized two seminars in the department of chemistry (Univ. of Milan): speakers Dr P. Franco (Geolog), D. Caprioglio and D. Imperio (UniUPO)