

# DANIELE CANESTRARI

## Languages

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English – C1

French – A2

Spanish – A2

## Personal skills

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- Drummer and member of citizen band association
- Member of the Archeoclub d'Italia association
- Soccer fan and amatorial futsal player
- Driving license B

## Summary

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R&D Scientist at Dompé Farmaceutici SpA and PhD in Pharmaceutical and Medicinal Chemistry at Royal College of Surgeons in Ireland (RCSI). More than 7 years of experience in synthetic organic chemistry based on drug discovery with strong ability to design novel synthetic pathways and develop innovative chemical approaches. Well-versed in numerous analytical techniques for compounds synthesis and full characterization, including UPLC and HPLC methods development for chiral stuff, NMR, GC-MS, FT-IR, UV-Vis, MW, DSC, TGA.

## Skill Highlights

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- Complex problem solver
- Able to deliver to deadlines
- Result-oriented
- Innovative
- Team player
- Good communication

## Experience

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**R&D Scientist - 10/2022 – on**  
**Sterling SpA, Corciano (PG), Italy**

- Synthesis and of characterization corticosteroids as final APIs and their relative impurities in multigrams scale up up to kilos
- Technology transfer of new developed routes of synthesis of APIs

**R&D Discovery Senior Expert - 10/2020 – 09/2022**

**Dompé Farmaceutici SpA, L'Aquila (AQ), Italy**

- Synthesis of small molecules as novel drug candidates or drug backups – multigrams scale up
- Development of strategies for increasing API solubility (salts, prodrugs, inclusion complex syntheses)
- Carry out lab instruments ordinary maintenance and manage related SOPs

**R&D clinical chemist - 10/2019 – 10/2020**

**Chema Diagnostica di Marco Fiore, Monsano (AN), Italy**

- Development of liquid reagents in the field of clinical chemistry, immunoassays and food analysis
- In charge for technical assistance to customers
- Regarding the forthcoming IVD-R, responsible for technical documentation: “state-of-art”, scientific validation and clinical validation data

**Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE) in Prof. Shibata's research group (H2020-MSCA-RISE-2016) - 11/2017-05/2018**

**Nagoya Institute of Technology (NITech), Nagoya, Japan**

- Synthesis of fluoro benzylic alkyl compounds via desulfurative fluorination reaction
- LED light-catalysed hypervalent iodine(III)-mediated desulfurative acetoxylation of activated sulphides

**Teaching assistant - 10/2015-09/2018**

**Royal College of Surgeons Ireland (RCSI), Dublin, Ireland**

- Demonstrator in chemistry teaching labs for Medicine and Pharmacy students

## Education

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**PhD in Pharmaceutical and Medicinal Chemistry** – 10/2015-06/2019  
**Royal College of Surgeons Ireland (RCSI)**, Dublin, Ireland

Thesis: Hypervalent iodine and sulphur chemistry, desulfurative halogenations of activated and non-activated sulphides, very high enantioenriched halogenated compounds through enantiospecific  $S_N2$  reactions

**Double Degree/Master Degree** in Chemistry and Advanced Chemical Methodologies – 2014

**University of Camerino**, Italy / **Instituto Superior Técnico de Lisboa (IST)**, Lisbon, Portugal

Thesis: Novel synthesis of 1,2,5-oxadiazoles *via* microwave-assisted reactions.

**Bachelor** in Chemistry - 2012

**University of Camerino**, Italy

## Publications and awards

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- D. Canestrari *et al.* *Org. Lett.* 2017, 19 (4), pp 918–921. DOI: 10.1021/acs.orglett.7b00077
- D. Canestrari *et al.* *Chem. Sci.* 2019, 10, 9042-9050. DOI: 10.1039/c9sc03560e
- M. Tomassetti *et al.* "The Appropriate Acyclic Precursors to Build Biologically Active 5-acylamino-1, 3-thiazoles." Book chapter in *Current Advances in Chemistry and Biochemistry 2021*, Vol. 8, 40-56. DOI: 10.9734/bpi/cacb/v8/9618D
- ✓ Best poster award, CSCB-17th One-day symposium 'Recent Advances in Synthesis and Chemical Biology XVII' (7/12/2018)
- ✓ Winner of "Eugenio Aringhieri Innovation Award" in Dompé Farmaceutici, with the project "The first pharmaceutical co-crystal in Dompé" in collaboration with MedChem team (2021)