Gianluca DESTRO

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CHEMISTRY SKILLS

I am a synthetic organic chemist, with a deep background in medicinal chemistry, a basic knowledge in silico drug discovery, experience in multistep synthesis and structure-activity relationship (SAR). During my work as PhD student, I added to my skills isotope labelling with carbon-13, carbon-14 and PET imaging with carbon-11. I developed new methodologies through metal catalyzed reactions for CO2 fixation, to have cheaper and one-step radio synthesis. In these three years, I got familiar with copper, silver and nickel catalyzed reactions, I expanded my abilities in using glovebox and the most common analysis method such as NMR, HPLC, IR and Mass Spectrometry. I developed an accurate approach to research through deep investigation in literature and database, I had a meticulous way in executing projects and I am ready to suggest new ideas.

PROFESSIONAL EXPERIENCE

Nov 2019 –since now

UNIVERSITY OF OXFORD, Chemistry Research Laboratory

Post-Doctoral Reasearch Associate. Supervisor: Prof. Véronique Gouverneur

- Late stage fluorination

Oct 2016 – Sep 2019

CEA Saclay/DRF/JOLIOT/SCBM/LCM

PhD in organic chemistry. Supervisors: Dr. D. Audisio, Dr. T. Cantat, Dr. F. Taran
CEA Saclay D36, 91190 Saclay
Financial support: *Marie Curie European Fellowship, ISOTPICS, H2020-MSCA-ITN-2015-ETN*

- Expertise: Organic synthesis, heterocyclic organic synthesis (coumarines, oxadiazole), organometallic chemistry (Cu, Ni, Pd, Au, Ag), using of CO2, CO, CN.
  Developing of Carbon Isotope Exchange chemistry with $^{13}CO_2$, $^{14}CO_2$, $^{11}CO_2$, ^{13}CN

Jan 2019- Mar 2019

Astrazeneca/ IMED/ Isotopelab

Visiting PhD student. Supervisors: Dr. Charles Elmore
AstraZeneca R&D Goteborg, Molndal, Sweden

- Exploiting new methodologies for the labelling of relevant drugs through Carbon Isotope Exchange
- Direct and supervised use of $^{14}CO_2$
- Working in industrial environment, direct use of LC-MS and Prep-HPLC

Nov 2018 – Dec 2018

Karolinska Institutet/ CPF/ PET center

Visiting PhD student. Supervisors: Dr. Magnus Schou
Karolinska UniversitetssjukhusetStockholm, Sweden

- Applying and developing carbon isotope exchange applicable in ^{11}C labelling for PET imaging
  Working with hotcell and dedicated software and HPLC and radio-HPLC analysis

March 2016 – April 2016

Centre for Analysis and Synthesis

Visiting scientist, Supervisor: Prof. U. Nilsson
Kemicentrum, University of Lund, Sweden
Financial support: *Erasmus Traineeship Fellowship (won in Dec. 2016)*

- Introduction to application of *in silico* approaches in drug discovery
- Developing new molecules through scaffold hopping approach (DHODH inhibitors), synthesis of heterocycles (isocoumarines).

April 2015 – February 2016

Department of Science and Drug Technology (DSTF)
Master Student, Supervisor: Prof. M. L. Lolli and Prof. D. Boschi
Università di Torino, Torino Italy

- **Master Thesis**: "Design and synthesis of flufenamic acid derived bioisosteres as inhibitors of AKR1C3 expressed in prostate cancer"
- Multistep organic synthesis, scale up of substituted 4-hydroxy-1,2,3-triazoles building block

PUBLICATIONS

1. **Gianluca Destro**, Olivier Loreau, Elodie Marcon, Frédéric Taran, Thibault Cantat, Davide Audisio, "Dynamic carbon isotope exchange enabled labeling of pharmaceuticals with *CO_2" *J. Am. Chem. Soc. 2019, 141, 2, 780-784*
2. **Destro G**, Audisio D, Cantat T, "A process for the synthesis of carbon labeled organic compounds" 2018, Patent application EP18305407
3. Antonio Del Vecchio, **Gianluca Destro**, Frédéric Taran, Davide Audisio, "Recent Developments in Heterocycles Labeling with Carbon Isotopes" *J Label Compd Radiopharm. 2018, 61, 988-1007*

ORAL COMMUNICATION

1. **Seco 56-Semaine d'Etudes en Chimie Organique**, May 2019, La Clusaz, France, *Presented in English*, "Dynamic carbon isotope exchange enabled labeling of pharmaceuticals with *CO2".
2. **13th International Symposium on the synthesis and application of isotopically labelled compounds**, June 2018, Prague, Czech Republic, *Presented in English,* "CO_2 chemistry for the synthesis of radiolabeled compound", winning "Journal of Labelled Compounds and Radiopharmaceuticals **Young Scientist Award** "for oral presentation.
3. **Research in progress Seminar series,** Invited speaker, March 2019, William Harvey Research Center, Queen Mary University of London, "Dynamic carbon isotope exchange enabled labeling of pharmaceuticals with *CO_2"

POSTER

1. **XXII International Conference on Organic Synthesis**
   September 2018, Florence, Italy, "Carbon Isotope Exchange (CIE) for the synthesis of radio-labeled compounds" **Gianluca Destro**, Olivier Loreau, Elodie Marcon, Frédéric Taran, Thibault Cantat, Davide Audisio, winninh
2. **International Symposium "Drug Discovery and New Therapeutics"**
   April 2018, Orsay, France, "CO_2 chemistry for the synthesis of radiolabeled compound" **Gianluca Destro**, Olivier Loreau, Elodie Marcon, Frédéric Taran, Thibault Cantat, Davide Audisio

OTHER SKILLS

Languages
Italian: mother tongue
English: Fluent (IELTS score 7, 9/7/2016)
French: Fluent

IT Skills
Operating systems: Windows
Programs: Microsoft Office Suite (Power Point, Word, Excel) , Mestrenova, NMR notebook, ChemSketch, ChemDraw, Biovia Draw, MassLynx, Maestro Schrodinger, Cambridge software Electronic Notebook

REFERENCES

Dr. Davide AUDISIO	**Dr. Thibault CANTAT**	**Dr. Frederic Taran**	**Dr. Charles S. Elmore**
LMC Team Leader	LCMCE Team Leader	SCBM Head of Unit	Isotope Lab Director
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