



Giorgio Buttitta

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WORK EXPERIENCE

Industrial PhD student

Sapienza university of Rome; BSP Pharmaceuticals [01/06/2021 - Current]

City: Rome | Country: Italy

- **01/06/2022-31/08/2022:** Purification and mass characterisation using a MALDI-TOF MS of monoclonal antibodies.
- **01/09/2022-31/08/2023:** Work in the R&D laboratories of **BSP Pharmaceuticals** to develop a microfluidic system able to produce liposomal formulations with different composition from lab scale up to industrial level
- **01/09/2023-05/03/2024:** Visiting PhD student in the **laboratory of Professor Luciani, UniBe, Bern, Switzerland**. During this experience I had the opportunity to work on different projects regarding lipid and polymeric nanoparticles.
- Techniques: Thin film hydration; Extrusion; Nanoprecipitation; Single and Double emulsion technique; Microfluidic; HPLC; Spectrophotometer; DLS, NTA, TFF, Bradford assay, ELISA, Optical microscopy, TEM; Cryo-TEM; In vitro release studies; Lyophilisation

Early-stage Researcher, Laboratory of nanomedicine

USC [01/01/2022 - 01/06/2022]

City: Santiago De Compostela | Country: Spain

- Development, characterization and optimization of a nanoparticle system to vehiculate monoclonal antibodies at intracellular level.
- Techniques: DLS, NTA, TFF, Bradford assay, ELISA, optical microscopy, TEM
- Scientific writing of projects

Internship for thesis, Laboratory of Nanomedicine.

USC [15/01/2021 - 01/08/2021]

City: Santiago De Compostela | Country: Spain

- Drug delivery of monoclonal antibodies for meniscus regeneration (European project MEFISTO)

Public pharmacy internship

Farmacia Igea [01/07/2020 - 01/12/2020]

City: Rome | Country: Italy

- More than 500 hours in the galenic laboratory of the pharmacy, assisting on the preparation of solid and liquid galenic formulations.

Laboratory internship, Drug chemistry and technology department

Sapienza University of Rome [01/03/2020 - 01/06/2020]

City: Rome | Country: Italy

Master class titled : "Introduction to drug delivery" for the biotechnology magistral course

Sapienza [20/06/2024]

City: Roma | Country: Italy

EDUCATION AND TRAINING

Pharmaceutical chemistry and technology master's degree (110/110 cum laude)

Sapienza University of Rome [01/10/2016 - 21/10/2021]

City: Rome | Country: Italy | Website: <https://www.uniroma1.it/it/pagina-strutturale/home>

Hight school graduation

Liceo scientifico Talete [01/09/2011 - 04/07/2016]

City: Rome

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Prism / Minitab (Design of Experiments) / Copilot / Zoom / Social Media / Google Drive / Microsoft Excel / Microsoft PowerPoint / Microsoft word / Mendeley

HONOURS AND AWARDS

[2024] UniBE

Swiss-European Mobility Programme (SEMP)

[2022] Sapienza University of Rome

Fondi per avvio alla ricerca Founding for early stage researcher

[10/2021] Xunta De Galicia

Axudas de apoio á etapa predoutoral Founding for the development of a full scientific project for 4 years (rejected by the candidate)

[2021] Sapienza University of Rome

Excellence program Two years program for the students who has always have an average score higher than 27/30 and that has given all the exams of the years in time.

[2021] Sapienza university of Rome

Erasmus grant winner

[2017] Sapienza university of Rome

Best student of the course During my university studies I have always been between the 10 best student of the course and in 2017 I was awarded as the best student.

CONFERENCES AND SEMINARS

[08/07/2024 - 12/07/2024] Bologna

CRS 2024 Annual Meeting and Expo

[17/06/2024 - 19/06/2024] Rome

MedChem 2024 (XIII Paul Ehrlich Meeting)

[16/07/2023 - 18/07/2023] Thessaloniki

MedChem 2023 (XII Paul Ehrlich Meeting)

[03/07/2023 - 05/07/2023]

12 International conference on Carbonic Anhydrases:

[12/03/2023 - 14/03/2023] Rome

BioPhysic 2023

[14/07/2022 - 16/07/2022] Barcelona

MedChem 2022 (XI Paul Ehrlich Meeting)

[07/06/2022 - 07/06/2022] Rome

Novel frontiers in nanocarriers preparation and characterization

PUBLICATIONS

[2023]

Biofunctionalization of 3D printed collagen with bevacizumab-loaded microparticles targeting pathological angiogenesis

[2024]

Scalable microfluidic method for tunable liposomal production by a design of experiment approach

[2024]

Leveraging machine learning to streamline the development of liposomal drug delivery systems