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ARIANNA ROSSI

EXPERIENCE

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- 01/01/2022 - TODAY **PHD STUDENT – University of Messina, Messina (ME)**
Chemistry Science doctoral course in collaboration with CNR-ISTEC, Institute of Science and Technology for Ceramics.
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- 15/02/2021 – 31/12/2021 **RESEARCH FELLOW – CNR-ISTEC Institute of Science and Technology for Ceramics, Via Granarolo 64, Faenza (RA)**
Development and validation of biomimetics materials for regenerative and nano-medicine.
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- 01/02/2021 – 12/02/2021 **BIOLOGIST - CENTRO HERCOLANI, Via D’Azeglio 46, Bologna (BO)**
Blood samples analyses: clinical chemistry, blood panel, hormones, coagulation, glycated haemoglobin HbA1c, Covid-19 serological test; urine samples: urinalysis and urine sediment reading; faecal samples: occult blood test; Covid-19 rapid antigen swab.
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- JUNE 2020 – DECEMBER 2020 **INTERN - CENTRO HERCOLANI, Via D’Azeglio 46, Bologna (BO)**
Post Graduate internship as a biologist in a diagnostic laboratory.
Blood samples analyses: clinical chemistry, blood panel, hormones, coagulation, glycated haemoglobin HbA1c, Covid-19 serological test; urine samples: urinalysis and urine sediment reading; faecal samples: occult blood test; Covid-19 rapid antigen swab.

SKILLS

Technical Skills: biomaterial synthesis, material physical-chemical characterization, morphology characterization: scanning electron microscopy (SEM). Biomaterial biological evaluation: cell culture, Western Blot, protein extraction and quantification, cell viability assays (MTT assay, Live and Dead assay, PrestoBlue Assay), quantitative real-time PCR (q RT-PCR), cellular fixation and staining, immunofluorescence (images qualitative and quantitative analyses), histological characterization, optical microscopy, inverted fluorescence microscopy.

Other: lipofectamine transfection, electroporation, Pull-Down Assay, live-cell imaging (Time-Lapse video analyses), bacterial DNA extraction, PCR, agarose gel electrophoresis, creation of NGS sequencing libraries, sequences analysis, anaerobic hood use.

Programming Skills: Microsoft Office (ECDL License), Photoshop, Adobe Illustrator, GIMP, InkScape, ImageJ, ImageStudio, GraphPad Prism, VMD, Marvin Sketch.

Personal Skills: problem-solving, teamwork, organisational skills, resources and time management skills, autonomy, initiative.

English (writing, listening, speaking): intermediate level.

EDUCATION

II SESSION 2020	QUALIFICATION TO THE PROFESSION OF BIOLOGIST - UNIVERSITY OF SALENTO
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OCTOBER 2017 – 20/03/2020	PHARMACEUTICAL BIOTECHNOLOGIES, MASTER DEGREE (LM-9) – UNIVERSITY OF BOLOGNA Final Grade: 110 e Lode / 110 Experimental thesis held at the Pharmacology Department of the Cambridge University (UK) during a seven months internship: <ul style="list-style-type: none">Title: A view on the ubiquitination code drives Aurora-B fate during mitosis.Supervisor: Prof. Santi Mario Spampinato We tried to unravel Aurora-B kinase ubiquitination code by analyzing N-terminus lysines and deubiquitination enzymes (USP13 and USP35) involvement. Aurora-B Lys4 was identified as the major residue controlling Aurora-B degradation, also it has a role in Aurora-B relocalization after anaphase onset. We found that USP35 is fundamental for cells to start mitosis and its depletion induces a mitotic block with the contribution of an increased Histone H3 phosphorylation of the Ser10 that is an Aurora-B target suggesting the interaction between Aurora-B and USP35. USP13 triggers a mild phenotype inducing non-complete Aurora-B relocalization after anaphase onset and an increased Histone H3 phosphorylation associated with different Aurora-B localization. USP13 seems to edit chains involved in Aurora-B localization, in particular, we showed for the first time its direct effect on K63 ubiquitin chain linkages that are known to trigger localization.
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25/06/2018 – 03/07/2018	SUMMER SCHOOL, PHARMACY AND BIOTECHNOLOGY DEPARTMENT– UNIVERSITY OF BOLOGNA Title: Chemical and genomics-based strategies in the discovery of novel drug targets.
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OCTOBER 2014 – 24/07/2017	BIOTECHNOLOGY, BACHELOR DEGREE (L-2) – UNIVERSITY OF BOLOGNA Final Grade: 110 e Lode / 110 Experimental thesis held at the Microbiology laboratory of the Bologna University during a four months internship: <ul style="list-style-type: none">Title: Sviluppo di "<i>mini gut models</i>" e screening dell'attività modulatoria sul microbiota intestinale di dieci molecole approvate dall'FDA.Supervisor: Prof. Marco Candela In this thesis were evaluated the next-generation approach in order to modulate the microbiota. These are based on small molecules able to modify microbial community composition and functionalities.
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We tried to set up an in vitro microbiota gut model, the *mini gut model*. Because of the microbial ecosystem complexity, the model optimization played a key role to ensure significant results.

Ten molecules, chosen from already FDA-approved drugs, were tested. All of them showed a modulatory effect on the microbiota and one also the ability to direct the composition to health-promoting microorganisms.

SEPTEMBER 2009 –
04/07/2014

SCIENTIFIC LYCEUM – DIPLOMA – IIS LUIGI FANTINI, VERGATO (BO)

Final Grade: 100 / 100

Two weeks internship at Life Learning Center, laboratory technician duties and support to the center educational activities.

SCIENTIFIC PUBLICATION

Furlani Franco, **Rossi Arianna**, Grimaudo Maria Aurora, Bassi Giada, Giusto Elena, Montesi Monica, and Panseri Silvia. Extracellular vesicles-mimetic delivery from thermosensitive hydrogel for regenerative medicine. *International Journal of Molecular Sciences*, 2022.

Grimaudo M.A., Krishnakumar G.S., Giusto E., Furlani F., Bassi G., **Rossi A.**, Molinari F., Lista F., Montesi M., Panseri S. Bioactive injectable hydrogels for on demand molecule/cell delivery and for tissue regeneration in the central nervous system. *Acta Biomaterialia*, 2021.

Torcasio Serena Maria, Montesi Monica, Panseri Silvia, **Rossi Arianna**, Bassi Giada, Mazzaglia Antonino, Anna Piperno Anna, Coulembier Olivier, and Scala Angela. Synthesis and biological profile of novel three-arms star-shaped PLA-PEG amphiphilic copolymers. *Conference Abstract*, 2021. XXVII Congresso Nazionale Della Società Chimica Italiana.

Furlani Franco, Grimaudo Maria Aurora, Bassi Giada, **Rossi Arianna**, Montesi Monica, Panseri Silvia. *In vitro* simulation of extracellular vesicles delivery from thermosensitive nanocomposite hydrogel for regenerative medicine. *Poster*, 2021. 31st Conference of the European Society for the Biomaterials (ESB).

Bassi Giada, Panseri Silvia, **Rossi Arianna**, Campodoni Elisabetta, Sandri Monica, Dapporto Massimiliano, Sprio Simone, Tampieri Anna, Montesi Monica. Scaffold-based 3D cellular models mimicking the heterogeneity of osteosarcoma stem cell niche. *Conference Abstract*, 2021. 31st Conference of the European Society for the Biomaterials (ESB).

Date

18/01/2022

Signature


