


Francesca
Giulimondi

DATE OF BIRTH:
21/10/1992

CONTACT

Gender: Female

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WORK EXPERIENCE

10/2017 - CURRENT

PhD student

prof. Caracciolo Giulio, Department of Molecular Medicine, Sapienza University of Rome

Research project: Exploiting the biomolecular corona of non-viral nanocarriers for the development of new personalized gene and cancer therapies

06/2019 - 08/2019

PhD Internship

Prof. Hans Clevers, Hubrecht Institute, Utrecht, The Netherlands

Research project: Exploiting the biomolecular corona to boost the anticancer activity of doxorubicin-loaded liposomes in pancreatic organoids

10/2015 - 09/2017

Student

prof. Screpanti Isabella, Department of Molecular Medicine, Sapienza University of Rome

Research project: Study of the epigenetic mechanisms regulating Notch3 gene expression in T-cell acute lymphoblast leukemia

06/2015 - 09/2015

Student

prof. Contestabile Roberto, Department of Biochemical Sciences, Sapienza University of Rome

EDUCATION AND TRAINING

10/2015 - 10/2017

Master's degree Genetics and molecular biology in basic and biomedical research [LM(DM 270/04) - ORDIN.2013]

Sapienza University of Rome

Study of the transcriptional regulation of the Notch3 gene in acute T-cell lymphoblastic leukemia

10/2011 - 10/2015

Bachelor's degree Biological Sciences [L-13]

Sapienza University of Rome

Study on the molecular mechanism of GabR, a transcriptional regulator dependent on the pyridoxal 5'-

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

English

Listening
B1

Reading
B1

Spoken
production
B1

Spoken
interaction
B1

Writing
B1

PUBLICATIONS

- **Palchetti, S., Digiaco, L., Giulimondi, F., Pozzi, D., Peruzzi, G., Ferri, G., ... & Caracciolo, G. (2020). A mechanistic explanation of the inhibitory role of the protein corona on liposomal gene expression. *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 1862(3), 183159.**

2020

- **Giulimondi, F., Digiaco, L., Pozzi, D., Palchetti, S., Vulpis, E., Capriotti, A. L., ... & Mahmoudi, M. (2019). Interplay of protein corona and immune cells controls blood residency of liposomes. *Nature communications*, 10(1), 1-11.**

2019

- **Papi, M., Palmieri, V., Digiaco, L., Giulimondi, F., Palchetti, S., Ciasca, G., ... & Coppola, R. (2019). Converting the personalized biomolecular corona of graphene oxide nanoflakes into a high-throughput diagnostic test for early cancer detection. *Nanoscale*, 11(32), 15339-15346.**

2019

- **Digiaco, L., Palchetti, S., Giulimondi, F., Pozzi, D., Chiozzi, R. Z., Capriotti, A. L., ... & Caracciolo, G. (2019). The biomolecular corona of gold nanoparticles in a controlled microfluidic environment. *Lab on a Chip*, 19(15), 2557-2567.**

2019

- **Digiaco, L., Giulimondi, F., Mahmoudi, M., & Caracciolo, G. (2019). Effect of molecular crowding on the biological identity of liposomes: an overlooked factor at the bio-nano interface. *Nanoscale Advances*, 1(7), 2518-2522.**

2019

- **Mori M, Tottone L, Quaglio D, Zhdanovskaya N, Ingallina C, Fusto M, Ghirga F, Peruzzi G, Grestoni ME, Simeoni F, Giulimondi F, Talora C, Botta B, Screpanti I, Palermo R (2017). Identification of a novel chalcone derivative that inhibits Notch signaling in T-cell acute lymphoblast leukemia. *SCIENTIFIC REPORTS*, vol. 7, 2213, ISSN: 2045-2322, doi: 10.1038/s41598-017-02316-9**

2017

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Powerpoint

CONFERENCES AND SEMINARS

27/11/2018 – 28/11/2018 – Istituto Ortopedico Rizzoli, Centro di Ricerca Codivilla Putti, Bologna

Cell communication and signaling. How to turn bad language into positive one.

Title: The biomolecular corona of cationic, neutral and anionic liposomes and its implication in drug and gene delivery

Author/s Name/s: Francesca Giulimondi,^{1,2} Luca Digiacomo,¹ Sara Palchetti,¹ Daniela Pozzi,¹ Giovanna Peruzzi,² Anna Laura Capriotti,³ Aldo Laganà,³ Isabella Screpanti,¹ Giulio Caracciolo¹

Institution/Hospital:

¹ Department of Molecular Medicine, Sapienza University of Rome, Viale Regina Elena 291, 00161 Rome, Italy

² Center for Life Nano Science@Sapienza, Istituto Italiano di Tecnologia, Rome, Italy

³ Department of Chemistry, University of Rome "La Sapienza", Piazzale Aldo Moro 5, 00185 Rome, Italy

18/10/2018 – Roma Tre University of Rome

Work shop: "Discovering Organoids: The Journey Of 3D Cultures Systems"

PATENT APPLICATIONS

PalermoR,MoriM,TottoneL,GhirgaF,ZhdanovskayaN,IngallinaC,GiulimondiF,QuaglioD,BottaB,ScrepantiI.Inibitori di Notch per uso nel trattamento della leucemia linfoblastica acuta a cellule T(2016).Italian Patent application number:102016000132360.