

Silvia Maria Cristina Rotondi

EDUCATION

PERSONAL INFORMATION

Date of Birth:

Address:

Phone:

Email:

Linkedin:

ORCID:

- PhD-Student in PHYSICS
November 2021-in progress
University of Genoa, Department of Physics, Genoa
- Master degree in PHYSICS
2019-2021
University of Genoa, Department of Physics, Genoa
- Bachelor degree in PHYSICS
2015-2019
University of Genoa, Department of Physics, Genoa

WORK EXPERIENCE

- Didactic tutor in Mathematics and Physics for students of Pharmacy (2022/2023) and Biology (2023/2024) in Mathematics and Physics.
- Teaching assistance at laboratories during internships for secondary school students. University of Genoa, department of Physics (2022).
- Collaboration Activity, University of Genoa (2016-2021)

PUBLICATIONS

- **Rotondi, S. M. C.**, Ailuno, G., Mattioli, S. L., Pesce, A., Cavalleri, O., & Canepa, P. (2023). *Morphological Investigation of Protein Crystals by Atomic Force Microscopy*. Crystals, 13(7), 1149.
- **Rotondi, S. M. C.**, Canepa, P., Angeli, E., Canepa, M., & Cavalleri, O. (2023). *DNA Sensing Platforms: Novel Insights into Molecular Grafting Using Low Perturbative AFM Imaging*. Sensors, 23(9), 4557.
- P. Canepa, D. Gregurec, N. Liessi, **S. M. C., Rotondi**, S. E. Moya, E. Millo, M. Canepa, O. Cavalleri, (2023). *Biofunctionalization of Porous Titanium Oxide through Amino Acid Coupling for Biomaterial Design*. Materials 2023.
- G. Pinto, S. Dante, **S.M.C. Rotondi**, P. Canepa, O. Cavalleri, M. Canepa. *Spectroscopic Ellipsometry Investigation of a Sensing Functional Interface: DNA SAMs Hybridization*. Adv. Mater. Interfaces 2022.

CONFERENCES

- **S.M.C. Rotondi** et al. *Coupling SE and QCM-D for label-free detection of oligonucleotides sequences*. Poster presented at CMD30 FisMat 2023, September 4-8 2023, Milano, Italy
- **S.M.C. Rotondi** et al. *A DNA sensing platform for the multiplex and label-free targeting of oligonucleotide sequences*. Oral communication at ICOMF18, August 21-25 2023, Frankfurt, Germany.
- **S.M.C. Rotondi** et al. *Optical detection of viral sequences through spectroscopic ellipsometry*. Poster presented at 17th European Conference on Organized Films, 14-16 September 2022, Cordoba.
- **S.M.C. Rotondi** et al. *Label-free detection of diseases-related oligonucleotides sequences*. Oral presentation at XXVI National Congress SIBPA, 11-14 September 2022, San Miniato. Winner of conference bursary.
- AFM BioMed Summer School, Marseille 11-16 July 2022.
- **S.M.C. Rotondi** et al. *Towards a label-free biosensor: studying DNA SAMs with a multi-technique investigation*. Poster presented at 1st MOSBRI Conference, 20-22 June 2022, Paris. Winner of conference bursary.

LANGUAGES

Italian: mothertongue

English: First (FCE), Cambridge English, 2014, B2 level

Genova, 21/12/2023