Daniele Chiappetta

WORK EXPERIENCE

🏢 *Italian Institute of Technology (IIT)* – Rome, Italy

City: Rome | **Country:** Italy

University research assistant

[10/2022 – Current]

🏢 *Sapienza University of Rome - Department of Basic and Applied Sciences for Engineering (SBAI)* – Rome, Italy

City: Rome | **Country:** Italy

University research assistant

[05/2022 – Current]

🏢 *Sapienza University of Rome - Department of Biology and Biotechnologies 'Charles Darwin' (BBCD)* – Rome, Italy

City: Rome | **Country:** Italy

University research assistant

[05/2022 – Current]

EDUCATION AND TRAINING

Master's degree in Genetics and Molecular Biology for Basic and Biomedical Research

Sapienza, University of Rome [2019]

Address: Piazzale Aldo Moro 5, 00185 Roma (Italy) | **Website:** www.uniroma1.it | **Field(s) of study:** Biomedical Curriculum

Bachelor's degree in Biological Sciences

Sapienza, University of Rome [2015]

Address: Piazzale Aldo Moro 5, 00185 Roma (Italy) | **Website:** www.uniroma1.it | **Field(s) of study:** Biosanitary Curriculum

TECHNICAL SKILLS

Cellular Biology

- Isolation of Peripheral Blood Mononuclear Cells (PBMCs) from human blood samples
- Culture of multiple cell lines and primary cultures
- Flow cytometry

Molecular Biology

- DNA and RNA isolation
- cDNA synthesis
- Real Time-qPCR for RNA quantification
- Cell transfection by lipofection

Biochemistry

- Protein isolation
- SDS-PAGE and Western Blotting
- Enzyme-Linked ImmunoSorbent Assay (ELISA)

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

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

MANAGEMENT AND LEADERSHIP SKILLS

Laboratory activities

Supervisor of Bachelor and Master degree's students

Laboratory training for Master degree's students

SKILLS

Microsoft Office / Image Lab and ImageJ software for image acquisition and analysis / GraphPad Prism software for statistical analysis / FlowJo analysis of flowcytometric data

PUBLICATIONS

[2023]
Detection of anti-SARS CoV-2 antibodies in human serum by means of Bloch surface waves on 1D photonic crystal biochips
Biosensors and Bioelectronics: X 15,100413

Occhicone A, Sinibaldi A, Chiappetta D et al.

[2023]
Enhanced fluorescence detection of miRNA by means of Bloch surface wave-based biochips
Analyst 148(18), pp. 4429-4437

Occhicone A, Michelotti F, Rosa P, Chiappetta D et al.

[2023]

Elexacaftor/tezacaftor/ivacaftor corrects monocyte microbicidal deficiency in cystic fibrosis
European Respiratory Journal 61(4), 2200725

Cavinato L, Luly F R, Pastore V, Chiappetta D et al.

[2022]

Label-free detection of SARS-CoV-2 neutralizing antibodies in human serum by Bloch surface waves on 1D photonic crystal biochips
Optics InfoBase Conference Papers FTh1D.1

Occhicone A, Sinibaldi A, Pileri T, Di Matteo P, Chiappetta D et al.

HONOURS AND AWARDS

[2024] Sapienza – University of Rome
Research Project
Dissecting tumor cell, cancer associated fibroblast and T lymphocyte crosstalk in pancreatic ductal adenocarcinoma

[2023] Sapienza – University of Rome
Research Project
Analysis of the effect of Trikafta treatment on innate immune cells in people with cystic fibrosis

[2022] Sapienza – University of Rome
'Avvio alla Ricerca' Project
Development of a new high-sensitivity liquid biopsy assay for the nanophotonic determination of ERBB2 proto-oncogene overexpression

LANGUAGE STAY

[07/2015 – 12/2015]
Greenwich English College

Sydney, Australia