# Daniele Chiappetta

**Gender:** Male

## WORK EXPERIENCE

### University research assistant
*Italian Institute of Technology (IIT)* [ 10/2022 – Current ]

**City:** Rome | **Country:** Italy

### University research assistant
*Sapienza University of Rome - Department of Basic and Applied Sciences for Engineering (SBAI)* [ 05/2022 – Current ]

**City:** Rome | **Country:** Italy

### University research assistant
*Sapienza University of Rome - Department of Biology and Biotechnologies 'Charles Darwin' (BBCD)* [ 05/2022 – Current ]

**City:** Rome | **Country:** Italy

## 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 | **Final grade:** 110/110 Cum Laude | **Thesis:** Role of miR-146a-5p in the inflammatory response of the macrophages in Cystic Fibrosis patients

### 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 | **Final grade:** 110/110 Cum Laude | **Thesis:** Contribution of macrophages in Cystic Fibrosis lung disease

## 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)

## MANAGEMENT AND LEADERSHIP SKILLS

**Laboratory activities** Supervisor of Bachelor and Master degree's students
Laboratory training for Master degree's students

## LANGUAGE SKILLS

**Mother tongue(s):** Italian

**Other language(s):**

| **English** | **German** |
|---|---|
| **LISTENING** B2 **READING** B2 **WRITING** B2 | **LISTENING** A2 **READING** A2 **WRITING** A2 |
| **SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2 | **SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2 |

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

## DIGITAL 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

[ 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