Lorenzo Antonelli

**Nationality:** Italian

**Date of birth:** 05/10/1994

**Gender:** Male

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# EDUCATION

**Ph.D in Biochemistry**

### University of Rome "La Sapienza"

Title of the Project: "Study of the structure-activity relationship in Sigma 1 receptor"

**Master degree in Chemistry of biological system**

### University of Rome "La Sapienza"

**Field(s) of study:** Chemistry of biological sistems

**Final grade :** 110/110 with Honor

Title of the thesis: "Study of the conformational changes in hemoglobin of Bernacchi Trematomus by molecular dynamics simulation"

In this work the pathway of the isolated hemoglobin by the Antarctic ﬁsh Trematomus bernacchii is analayzed. Trajectory states has been compared to the crystallographic structures of the midway states of the hemoglobins of Antartics organisms. The pathway of HbTb has been compared to the pathway of human hemoglobin with the purpose to verify the functional value of the midway states.

# Bachelor degree in Chemistry

***University of Rome 'Tor Vergata'***

**Address:** Roma (Italy) **Field(s) of study:**Chemistry **Final grade :** 101/110

Title of the thesis: "Spectroscopic study on therapeutic peptides and their formulation"

Characterization by spectroscopy physical-chemistry measurements of the drug CIGB 552 in his ﬁnal formulation

# Diploma

### Istituto Tecnico Industriale Statale "E. MAJORANA" Cassino

**Address:** Cassino (Italy)

**Field(s) of study:**Chemistry **Final grade :** 83/100

**LANGUAGE SKILLS**

Mother tongue(s):

**Italian**

Other language(s):

## English

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

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

# PUBLICATION

 **Journal of peptide Science:**

 **Formulation matters! A spectroscopic and molecular dynamics investigation on the peptide CIGB552 as itself and in its therapeutical formulation**

 https:// doi.org/10.1002/psc.3356

# HONOURS AND AWARDS

## Biophysics: Best Poster Award

SIBPA [ 19/05/2019 ]

The poster was about a molecular dynamics simulation of a small protein (Tpr-cage)

# DIGITAL SKILLS

Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Linux / Kaleidagraph data analysis software

/ GROMACS for molecular dynamic simulation / VMD – Visual Molecular Dynamics / Xmgrace data analysis software / Coot - Molecular visualization program