Vinicius Brendo Rovetto

Birth day: 06/12/1999 in Salvador Bahia (Brazil)
Nationality: Italian
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Project: *Structural and biophysical studies (NMR and cryo-EM) of the ternary complex between HMGB1-CXCL12-CXCR4*

Supervisor: Prof. Francesca Magnani
Co-supervisor: Dott.ssa Giovanna Musco
Reviewer: Dott.ssa Claudia Ghigna

Education

PhD student in Genetics, Molecular and Cellular Biology (XLI cycle) **2026 – 2028**
University of Pavia, Pavia, 27100 (PV)

Master's degree in Medical and Pharmaceutical Biotechnologies **2023 – 2026**
University of Pavia, Pavia, 27100 (PV)
Thesis: *Crystallization of MmCPDII: a class II photolyase from Metanosarcina mazei*

Bachelor's degree in Biology **2019 – 2022**
University of Eastern Piemont, Vercelli, 13100 (VC)
Thesis: *Circulating miRNA to improve early noninvasive diagnosis of prostate cancer*

Experiences

Internship at the Rudolf Virchow Centre (Würzburg – DE) University of Würzburg **March 2025 – July 2025**
- X-ray crystallography for the characterization and study of protein crystals (MmCDPII and PRDX6)
- Cell culture and expression with E. coli Gold
- Purification (IMAC and SEC)
- Crystallization using both HTS and manual *hanging drop* optimization
- **Erasmus**

IVECO CRM unit At IVECO S.P.A – Turin **February 2023 – August 2023**
- Data analysis using Office Suite

University of Eastern Piemont part-time Job in Vercelli **February 2022 – September 2022**

- Secretary

Internship at Fondo Edo ed Elvo Tempia in Biella **May 2022 – June 2022**
- Real-time PCR (qRT-PCR)
- RNA extraction using Maxwell
- R Studio
- Blood sample centrifugation

Languages

Italian : native

English: fluent

IT Skills

R Studio (logistic regression, Wilcoxon Test, ROC Curve)

Office Suite

Coot

PHENIX

Computational drug design

Laboratories skills

IMAC, SEC, PCR, qRT-PCR, DNA and RNA extractions, bacterial culture (seeding, antibiogram), electrophoresis, SDS-PAGE, serial dilutions, lysozymes crystallisation, cell-based assay, computational analysis, cell adhesion studies and detachment, biocatalysis enzymatic reaction, HUMARA, protein expression and transformation, acid-base titration