MARCO MORSELLI, Ph.D.

PERSONAL INFORMATION

Date and place of birth: 07 September 1987; Parma, Italy
Nationality: Italy
Languages: Italian, English (U.S.)
e-mail: marco.murslegn@gmail.com (personal)
marco.morselli@unipr.it (institutional)

CURRENT POSITION

Junior Assistant Professor (RTD-A) — September 2021 - Present
University of Parma — Parma, Italy
Department of Chemistry, Life Sciences and Environmental Sustainability
Parco Area delle Scienze, 23/a,
43124 Parma (PR), Italy

RESEARCHER IDs

ORCID iD: https://orcid.org/0000-0003-3351-5791
Publons: https://publons.com/researcher/3237853/marco-morselli/
Scopus Author Identifier: 55795632100
Web of Science ResearcherID: AAF-3182-2019

EDUCATION

University of California, Los Angeles — Los Angeles, CA
Department of Molecular, Cell and Developmental Biology
Doctor of Philosophy (Ph. D.) — June, 2017
Dissertation
5-methylcytosine: from deposition to detection of the 5th base in mammalian genomes
Advisors: Matteo Pellegrini; Steven E. Jacobsen

University of Parma — Parma, Italy
Molecular Biotechnology - Master of Science — November, 2011
110/110 cum laude
Dissertation – Experimental Thesis (Sept. 2010 - Sept 2011)
DNA methylation in *Tuber melanosporum*: a symbiotic filamentous fungus with a genome rich in transposable elements
Advisors: Barbara Montanini; Simone Ottonello

University of Parma — Parma, Italy
Biotechnology - Bachelor of Science — October, 2009
110/110 cum laude
Dissertation – Experimental Thesis (March 2009 - Sept. 2009)
Validation of genome-wide protein-protein interactions using yeast two-hybrid technology in the symbiotic ascomycetes *Tuber melanosporum*
Advisors: Barbara Montanini; Simone Ottonello

AWARDS

Ministero della Università e della Ricerca – PRIN 2022 — 2023 - 2025
Principal Investigator of Research Unit and substitute P.I.
Coordinator: SORRENTINO Giovanni

University of California, Los Angeles - UCLA Clinical and Translational Science Institute. — 2020 - 2021
Core CTSI Award, **Co-investigator**

Illumina UNGC Pilot Grant – Targeted DNA Methylation, — 2017
Principal Investigator

FELLOWSHIPS

University of California, Los Angeles — 2017 - 2021
Institute for Quantitative and Computational Biosciences – The Collaboratory Fellowship

University of California, Los Angeles — 2016 - 2017
Dissertation Year Fellowship

University of California, Los Angeles — 2014 - 2015 and 2015 - 2016
Molecular Biology Institute - Philip Whitcome Fellowship

TEACHING EXPERIENCE

University of Parma — Oct 2021 - Present
Department of Chemistry, Life Sciences and Environmental Sustainability

"Eukaryotic Gene Regulation" – 6 CFU (BIO/11)
A.A. 2021/2022; 2022/2023; 2023/2024;
CdLM Genomic, Molecular, and Industrial Biotechnologies

University of California, Los Angeles — 2017 – 2021
Institute for Quantitative and Computational Biosciences – The Collaboratory

Instructor – Workshop 16: Library Preparation for Next-Generation Sequencing
Co-instructor – Workshop 2: Using NGS Analysis Tools

University of California, Los Angeles
Department of Molecular, Cell and Developmental Biology

Guest Lecturer – Biochemistry of Library Preparation for Next Generation-Sequencing – Research Immersion Laboratory in Genomic Biology (187AL) — 2015 – 2021

University of California, Los Angeles
Department of Molecular, Cell and Developmental Biology

Teaching Assistant – 187AL – Research Immersion Laboratory in Genomic Biology — 2015

University of California, Los Angeles
Department of Molecular, Cell and Developmental Biology

Teaching Assistant – 104AL – Laboratory in Developmental Biology — 2013

STUDENTS SUPERVISED

· **Graduate Students**: Borgognone Alessandra (Public University of Navarre, Spain); Cantarella Simona, (University of Parma, Italy)
· **Master Students**: Dos Santos Patrick (University of São Paulo, Brazil); Francesca Vivalda (University La Sapienza, Italy); Silvia Nigro (University of Parma, Italy); Barbara Rizzo (University of Parma, Italy); Valeria Destro (University of Parma, Italy); Martina Rampulla (University of Parma, Italy); Pasquale Garribba (University of Parma, Italy); Simona Marozzo (University of Parma, Italy); Lorenzo Orsini (University of Parma, Italy);
· **Undergraduate Researchers**: Obusan Matthew (University of California, Los Angeles, USA); Rosenbloom Ashton (University of California, Berkeley, USA); Horrillo Abraham (University of California, Los Angeles, USA)
· **Undergraduate Students**: Serena Facchetti (University of Parma, Italy)

RESEARCH EXPERIENCE

Junior Assistant Professor (RTD-A)
September 2021 – Present
University of Parma
Parma, Italy
Department of Chemistry, Life Sciences and Environmental Sustainability

Postdoctoral Scholar
University of California, Los Angeles
July 2017 – August 2021
Department of Molecular, Cell and Developmental Biology
Los Angeles, CA

Development of methods to detect DNA methylation levels in biological fluids (blood, plasma, saliva, stool, CSF…) for disease prediction using Next Generation Sequencing and Oxford Nanopore Sequencing.

Institute for Quantitative and Computational Biosciences – The Collaboratory

· Instructor: Workshop Introduction to Library Preparation for Next-Generation Sequencing (NGS)
· Co-Instructor: Using NGS Analysis Tools; Intro to Unix
· NGS Experiment Design and Library Preparation - collaborative projects

e-mail: mmorselli@g.ucla.edu

Graduate Student Researcher
University of California, Los Angeles
September 2012 – June 2017
Department of Molecular, Cell and Developmental Biology
Los Angeles, CA

Study of the molecular mechanisms between chromatin and DNA methylation. Supervisors: Steven E. Jacobsen; Matteo Pellegrini

Staff Research Associate
University of California, Los Angeles
anuary 2012 – September, 2012
Department of Molecular, Cell and Developmental Biology
Los Angeles, CA

Improvement of the Reduced Representation Bisulfite Treatment technique for the detection of DNA methylation in large-scale projects.
Supervisors: Liudmilla Rubbi; Matteo Pellegrini

M.Sc. Thesis
University of Parma — September 2010 – November 2011
Department of Biosciences — Parma, Italy
Characterization of the epigenome of *Tuber melanosporum*
Supervisors: Montanini Barbara; Ottonello Simone

B.Sc. Thesis
University of Parma — March 2009 – October 2009
Department of Biosciences — Parma, Italy
High-throughput screening of protein-protein interactions in *Tuber melanosporum* (Yeast 2 Hybrid)
Supervisors: Montanini Barbara; Ottonello Simone

PRESENTATIONS

Oral Presentation (**invited speaker**)	**Morselli M.**, New –omics Technologies. XIII CONGRESSO NAZIONALE IGIBD. December 1st, 2022. Riccione, Italy.
Live Webinar (**invited speaker**)	Sample to Success: How Quality Control Affects your NGS workflow. Vierling Elisa, MSc (Agilent Technologies) **Morselli Marco**, PhD (University of California, Los Angeles) October 7th, 2020 - Link to the recording: https://agilenteseminar.webex.com/agilenteseminar/lsr.php?RCID=7a6caee2022b4fc3a406c7642a61c1f9
Seminar (**invited speaker**)	Kevin Petti, Nadia Carlesso, Giorgia del Vecchio, **Marco Morselli**, Andrea Sandri, Alice Soragni, Marco Giovannini. Italian Research Day: Individualized Cancer Therapy in the Age of Precision Medicine. 2019 Italian Cultural Institute and the Consulate General of Italy in Los Angeles, Los Angeles, CA
Seminar	**Morselli Marco**, Bisulfite RNA-seq: Detection and Analysis of 5-methyl Cytosine in polyA-RNA. 2018 QCBio Research Seminar, Los Angeles, CA, United States
Oral Presentation (**invited speaker**)	**Morselli M.** *et al.*, Bisulfite RNA-seq: Detection and analysis of 5-methyl cytosine in polyA-RNA with next generation sequencing. 2018 Keystone Symposium on DNA and RNA Methylation. Vancouver, BC, Canada
Poster Presentation	**Morselli M.** *et al.*, Bisulfite RNA-seq: Detection and analysis of 5-methyl cytosine in polyA-RNA with next generation sequencing. 2018 Keystone Symposium on DNA and RNA Methylation. Vancouver, BC, Canada
Poster Presentation	**Morselli M.** *et al.*, Chromatin features guiding the activity of mammalian DNMT3b. UCLA 2016 Molecular Biology Institute Annual Retreat, Lake Arrowhead, CA, United States
Poster Presentation	**Morselli M.** *et al.*, *In vivo* targeting of de novo DNA methylation by histone modifications in yeast and mouse. UCLA 2015 Molecular Biology Institute Annual Retreat, Los Angeles, CA, United States

Poster Presentation **Morselli M.** *et al.*, Determining chromatin features affecting the activity of mammalian DNMT3B. Cold Spring Harbor Laboratory 2014 Epigenetics and Chromatin Meeting, Cold Spring Harbor, NY, United States

Poster Presentation Chen P.Y.*, Montanini B., Rubbi L., **Morselli M.*** *et al.*, Transposon methylation in *Tuber melanosporum* (truffle) and gene expression. International Plant & Animal Genome Conference XX (2012), San Diego, CA, United States ***These authors were co-presenters***

PEER-REVIEW ACTIVITY

- PNAS
- Genome Biology
- Nature Communications
- Molecular Plant
- Briefings in Functional Genomics
- Epigenetics and Chromatin
- PLOS ONE
- Frontiers in Bioinformatics
- Frontiers in Genetics
- STAR Protocols
- International Journal of Molecular Sciences
- Cells
- BMC Medical Genomics
- BMC Research Notes
- Journal of Clinical Medicine
- Medical Science Monitor
- World journal of Surgical Oncology

ADDITIONAL ACTIVITIES

UCLA Virtual Undergraduate Research Week, May 2021
- Posters/Presentations: Judge
- Medical Research Live Session: Moderator

UCLA Virtual Undergraduate Research Week, May 2020
- Posters/Presentations: Judge
- Medical Research Live Session: Moderator

Title: “METHODS TO DETECT METHYLATION STATUS OF ULTRASHORT SINGLESTRANDED ANDMONONUCLEOSOMAL CELL-FREE DNA”.
U.S. Provisional Patent Application No. 63/624,499;
Applicant: The Regents of the University of California
Inventors: Cheng J., Wong D., Swarup N., **Morselli M.**

Title: “CELL-FREE DNA BIOMARKER FOR DIAGNOSIS AND PROGNOSIS OF DISEASES WITH DEGENERATIVE PROCESSES”.
U.S. Provisional Patent Application No. 63/506,899;
Applicant: The Regents of the University of California
Inventors: Zaitlen N., Caggiano C., Pellegrini M., **Morselli M.**, Dahl A., Garton F.C.

Title: “METHODS CONCERNING ONGOING TREATMENT OF CANCER”.
International Patent Application No. PCT/US2020/033150;
U.S. Provisional Patent Application No. 62/848,494;
Applicant: The Regents of the University of California and United States Government Represented by the Department Of Veterans Affairs
Inventors: Tosevska A., Wang M., Srivatsan E., **Morselli M.**, Pellegrini M.

Visiting Scholar - USCS Human Paleogenomics Lab
University of California, Santa Cruz.
January 3-5, 2018, and February 6-8, 2018; Santa Cruz, CA, USA.

Scientific Publications in peer-reviewed international journals
(source Scopus: www.scopus.com - May 10th 2024)

Total number of publications: **67**
H-index: **22**
Total number of citations: **1853**

Il sottoscritto,
consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae corrispondono a verità.

Data: sabato 10 maggio 2024 Luogo: Parma (PR), Italia Marco Morselli, Ph.D.