

WORK EXPERIENCE

- From 05/03/2022 **Visiting researcher**
National Institute of Chemical Physics and Biophysics, Tallinn, Estonia
▪ Laboratory of Environmental Toxicology
- From 15/05/2021 **Research Fellowship: Fondazione CRUI project "Go For IT" "Microplastics in the Adriatic Sea: characterization of the associated microbiota, of the adsorbed toxic compounds, and of the impact on unicellular model organisms"**
School of Biosciences and Veterinary Medicine, University of Camerino, Italy
- 01/07/2019 – 14/05/2021 **Research Fellowship: "Study of the biological response to pollution from nanomaterials using freshwater and marine ciliates as models"**
School of Biosciences and Veterinary Medicine, University of Camerino, Italy
- 30/10-29/11/2019;
09/11-01/12/2020;
22/11-13/12/2021 **Genetic Engineering course teaching**
Jilin Agricultural University, Changchun, Jilin, China
- 28/07/2019 - 02/08/2019 **Participate in the Local Organizing Committee of "VIII European Congress of Protistology - Italian Society of Protistology joint meeting"**
Rome, Italy
- 10/06/2015 – 16/07/2015 **Participate in the Local Organizing Committee of "2015 Ciliate Molecular Biology"**
University of Camerino, Italy
- 12/04/2011 - 14/07/2011 **Part-time assistant**
University of Camerino, Italy
▪ Information desk clerk, receiving and mail sorting, telephone, etc. at the Presidency of Law Faculty
- 28/05/2010 - 30/09/2010 **Part-time assistant**
University of Camerino, Italy
▪ Reception and information desk clerk at the Chemistry Department

EDUCATION AND TRAINING

- 01/12/2015 – 08/03/2019 **PhD in Life and Health Sciences - Molecular Biology and Cellular Biotechnology**
International School of Advanced Studies, University of Camerino, Italy
▪ XXXI cycle
Thesis title: "Genes and genomes in ciliates: • Gene expression analysis in *Tetrahymena thermophila* under stress conditions • Approach to the characterization of the germline (micronuclear) genome in *Euplotes crassus*"
Supervisors: Prof. Cristina Miceli, Prof. Sandra Pucciarelli
- 04/03/2017 – 04/12/2017
and
01/08/2018 – 31/08/2018 **Research stage**
Institute of Cell Biology, University of Bern, Switzerland
▪ Epigenetic Mechanisms of Complex Genome Editing in Eukaryotes Laboratory
- 26/10/2014 – 26/04/2015 **Scholarship holder**
Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China
▪ Protozoan Functional Genomic Research Group
- 07/10/2014 – 17/10/2014
and
31/05/2015 – 07/06/2015 **COST Action – Short-Term Scientific Mission**
from University of Camerino to National Institute of Chemical Physics and Biophysics, Tallinn, Estonia

- Laboratory of Environmental Toxicology
- 10/04/2014 Master Degree in Biological Sciences 110/110 cum laude
University of Camerino, Italy
- Molecular Diagnostics and Biotechnology
- Thesis title: "Gene silencing as a tool to study the mechanisms of intron retention in ciliates"
Supervisors: Prof. Cristina Miceli, Dr. Sandra Pucciarelli, Dr. Daniela Sparvoli
- 15/03/2012 Bachelor Degree in Biotechnology 102/110
University of Camerino, Italy
- Curriculum: Microbial
- Thesis title: "Standardization of an ex vivo assay to evaluate the effect of plant extracts on ookinete development of Malaria parasite"
Supervisors: Prof. Annette Habluetzel, Prof. Giulio Lupidi
- A.S. 2006/2007 Scientific High School Diploma 90/100
Liceo Scientifico Leonardo Da Vinci, Jesi (AN), Italy
- P.N.I.

ADDITIONAL INFORMATION

Publications

1. Faktorová D, Nisbet RER, Fernández Robledo JA, Casacuberta E, Sudek L, Allen AE, Ares M Jr, Aresté C, Balestreri C, Barbrook AC, Beardslee P, Bender S, Booth DS, Bouget FY, Bowler C, Breglia SA, Brownlee C, Burger G, Cerutti H, Cesaroni R, Chiurillo MA, Clemente T, Coles DB, Collier JL, Cooney EC, Coyne K, Docampo R, Dupont CL, Edgcomb V, Einarsson E, Elustondo PA, Federici F, Freire-Beneitez V, Freyria NJ, Fukuda K, García PA, Girguis PR, Gomaa F, Gomiak SG, Guo J, Hampl V, Hanawa Y, Haro-Contreras ER, Hehenberger E, Highfield A, Hirakawa Y, Hopes A, Howe CJ, Hu I, Ibañez J, Irwin NAT, Ishii Y, Janowicz NE, Jones AC, Kachale A, Fujimura-Kamada K, Kaur B, Kaye JZ, Kazana E, Keeling PJ, King N, Klobutcher LA, Lander N, Lassadi I, Li Z, Lin S, Lozano JC, Luan F, Maruyama S, Matute T, Miceli C, Minagawa J, Moosburner M, Najle SR, Nanjappa D, Nimmo IC, Noble L, Novák Vanclová AMG, Nowacki M, Nuñez I, Pain A, Piersanti A, Pucciarelli S, Pyrih J, Rest JS, Rius M, Robertson D, Ruaud A, Ruiz-Trillo I, Sigg MA, Silver PA, Slamovits CH, Jason Smith G, Sprecher BN, Stern R, Swart EC, Tsaousis AD, Tsy-pin L, Turkewitz A, Tumšek J, Valach M, Vergé V, von Dassow P, von der Haar T, Waller RF, Wang L, Wen X, Wheeler G, Woods A, Zhang H, Mock T, Worden AZ, Lukeš J. "Genetic tool development in marine protists: emerging model organisms for experimental cell biology." **Nature Methods** (2020) 17, 481–494. <https://doi.org/10.1038/s41592-020-0796-x>
2. Liu X, Qin D, Piersanti A, Zhang Q, Miceli C, & Wang P. "Genome-wide association study identifies candidate genes related to oleic acid content in soybean seeds". **BMC Plant Biology** (2020) 20(1), 399. <https://doi.org/10.1186/s12870-020-02607-w>.
3. Piersanti A, Juganson K, Mozzicafreddo M, Wei W, Zhang J, Zhao K, Ballarini P, Mortimer M, Pucciarelli S, Miao W, Miceli C. "Transcriptomic responses to silver nanoparticles in the freshwater unicellular eukaryote *Tetrahymena thermophila*". **Environmental Pollution** (2021) Volume 269, 115965. <https://doi.org/10.1016/j.envpol.2020.115965>.
4. Chen H, Mozzicafreddo M, Pierella E; Carletti V; Piersanti A; Ali SM; Ame SM; Wang C; Miceli C. "Dissection of gut microbiota in mothers and children suffering from chronic helminth infection in Pemba Island, Tanzania". **Parasites Vectors** (2021) 14, 62. <https://doi.org/10.1186/s13071-021-04580-1>.
5. Mozzicafreddo M, Pucciarelli S, Swart EC, Piersanti A, Emmerich C, Migliorelli G, Ballarini P, Miceli C. "The macronuclear genome of the Antarctic psychrophilic marine ciliate *Euplotes focardii* reveals new insights on molecular cold adaptation". **Scientific Reports** (2021) 11, 18782. <https://doi.org/10.1038/s41598-021-98168-5>
6. Di Q, Piersanti A, Zhang Q, Miceli C, Li H, Liu X. "Genome-wide association study identifies candidate genes related to the linoleic acid content in soybean seeds". **Int J Mol Sci.** (2021) Dec 31;23(1):454. doi: 10.3390/ijms23010454. PMID: 35008885; PMCID: PMC8745128.

Conferences

- Poster presentaton: Ciliates as models for the response to environmental changes
The 4th Asian Congress of Protistology - internet
19-21/11/2021

- Oral presentation: Ciliates as models for the response to environmental changes
2021 Ciliate Molecular Biology Meeting (on Zoom)
19-22/07/2021
- Oral presentation: Response to changes in salinity in a tropical *Euplotes* species by cysts formation
2020 Junior Investigator Ciliate Molecular Biology Meeting (held virtually)
20-23/07/2020
- Poster presentaton: Response to Increase in Salinity in a Tropical *Euplotes* Species
VIII European Congress of Protistology - Italian Society of Protistology joint meeting
Rome, Italy
28/07-02/08/2019
- Invited speaker: Genome organization in marine ciliates and gene manipulation in *Euplotes*
Microbiology Society Annual Conference 2019
ICC Belfast, UK
08-11/04/2019
- Poster presentaton: Transfection approaches in *Euplotes*
Paramecium [epi]Genome Organization, Dynamics and Evolution
Nohfelden, Germany
03-06/10/2017
- Oral presentation: RNA-seq analysis of stress response to silver nanoparticles in *Tetrahymena thermophila*
Italian Society of Protistology, XXXI National Conference
Pineto (TE), Italy
14-16/09/2016
- Oral presentation: RNA-seq analysis of stress response to silver nanoparticle in *Tetrahymena thermophila*
The Allied Genetics Conference 2016
2016 Ciliate Molecular Biology Meeting
Orlando, Florida, USA
13-17/07/2016
- Oral presentation: RNA-seq analysis of stress response to silver nanoparticles in *Tetrahymena thermophila*
A New Age of Discovery for Aquatic Microeukaryotes
Heidelberg, Germany
EMBL Advanced Training Centre
26-29/01/2016
- COST Meeting
ENS, Paris, France
03-04/12/2015
- Poster presentaton: Using RNA-seq to test the effect of silver nanoparticles on *Tetrahymena thermophila*
2015 Ciliate Molecular Biology Meeting
Camerino, Italy
10-16//07/2015

Workshops

- Oral presentation: Microplastics in the Adriatic Sea sandy sediment: characterization of the associated microbiota and of the toxic impact on unicellular model organisms.
Young researchers bilateral meeting (online)
School of Biosciences and Veterinary Medicine, University of Camerino, Italy and Institute of Environmental and Health Sciences, China Jiliang University, China
21/12/2021

- **OPEN SCIENCE**
Elena Giglia – Università di Torino
13-19/09/2021
 - **Il software R - Corso base**
Prof. Damiano Preatoni – Università dell'Insubria
07-09/07/2021
 - **Oral presentation: Cell response to environmental changes in ciliates**
SNAPSHOTS seminars
School of Biosciences and Veterinary Medicine, University of Camerino, Italy
17/05/2021
 - **Elementi Cross Cutting nella Progettazione Europea: Etica, la Questione di Genere e la Standardizzazione in Horizon Europe**
APRE
13-15/04/2021
 - **Theoretical-Practical Marketing Course**
University of Camerino, Italy
12-16/02/2018
 - **CRISPR Genome Editing - Cutting, Inserting & Deleting**
CamBioScience, Cambridge, UK
27-28/02/2017
 - **Eukaryotic microbes and beyond, their use for the environment and the human health**
Italian Society of Protistology, XXXI National Conference, Pineto (TE), Italy
15/09/2016
 - **Model Organisms to Face Environmental Problems**
TAGC 2016, Orlando, Florida, USA
16/07/2016
- Seminars
- **Symposium: Protists as model organisms to face environmental problems. Organizers:**
Cristina Miceli, Wei Miao
The 4th Asian Congress of Protistology -internet
20/09/2021
 - **OPEN SCIENCE: non ci sono alternative**
Paola Masuzzo
08/09/2021
 - **Programma Horizon Europe 2021-2027. Percorso Formativo Marche Abruzzo - corso di formazione online**
APRE - Agenzia per la Promozione della Ricerca Europea
08-10-15-17-22/06/2021
 - **Virtual FISV Symposium on SARS-CoV-2 Biology and COVID-19: Current research and perspectives**
16/09/2020
 - **Communication, Collaboration, and Career Readiness**
Dr. Gloria Bader
University of Camerino (MC), Italy
22-25/05/2017
 - **Transposons and Programmed Genome Rearrangement**
Prof. Lawrence A. Klobutcher
University of Camerino (MC), Italy
09-12/05/2017

- Habilitation
- Lecturer (Cultore della Materia) in Cell Biology and Biotechnology
 - Enabled to enroll in O.N.B (National Order of Biologists)

PERSONAL SKILLS

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Certificate in Advanced English

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills MS Office/ intermediate level
Use of bioinformatics webservices

Driving licence B

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Date: 27/03/2022

Angela Piersanti