

## WORK EXPERIENCE

- 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**  
University of Camerino, Italy

110/110 cum laude

- 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.

## 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

## 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, Gornik SG, Guo J, Hampl V, Hanawa Y, Haro-Contreras ER, Hehenberger E, Highfield A, Hiraoka 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, Turnšek 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>

## Conferences

- **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

- **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

- **OPEN SCIENCE: non ci sono alternative**  
Paola Masuzzo  
08/09/2021
- **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)**

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Date: 20/10/2021

Angela Piersanti