



Carla Pollastro

ABOUT ME

PhD

Molecular biology

WORK EXPERIENCE

01/10/2019 – 30/06/2022 – Napoli

Post-doc/ Research fellow

Stazione Zoologica "Anton Dohrn" (SZN)

Postdoctoral Research fellow, ADVISE (Antitumor Drugs and Vaccines from the SEa) project in *Ciona robusta* as pharmacological model in translational approach

key words:

- molecular biology
- animal handling
- Immunology
- bioinformatics/ databases
- Ciona robusta* (stage 4)
- mutagenesis
- pharmacogenomics
- immunomodulators
- targeted proteomics -Western Blot

Abstracts and papers :

-Pollastro C., Liberti A., Spagnuolo A. and Sordino P. Evolutionarybased in silico tracing of

the immune genetic repertoire in *Ciona robusta* . Poster. Euro EvoDevo 2022

-Liberti A., Pollastro C., Marino R., Spagnuolo A. and Sordino P. The invertebrate *Ciona robusta* as a model for studying inflammatory mechanisms. Poster. WCI 2022

Liberti et al. in progress (paper)

Pollastro et al. in progress (paper)

Napoli

01/01/2014 – 03/04/2017 – Napoli

PhD student (Molecular Biology)

"ABT"IGB-CNR

"ABT"IGB-CNR/Universität Innsbruck, Naples (Italy)

"Adriano Buzzati-Traverso" IGB (CNR), Naples (Italy)/Universität Innsbruck (Innsbruck, Austria)

PhD thesis in Molecular biology:"Gene-environment interaction: prediction of new potential biomarkers of rescue post-stroke in Type 2 Diabetes"

PON project: SNPs' impact on farmaco-resistance in T2D (see additional information below)

Techniques/key words:

- Molecular biology (PCR, qPCR, Electrophoresis, WB, etc)
- Cloning

- Animal handling (perfusion, injection, injection of bioprobe, etc) especially in sh model like Zebrafish (maintenance, glucose uptake, In situ Hybridization on cryosections and whole-mount, microscopy fluorescence and confocal-)
- RIA and hormones extraction
- Cell biology (HEK293 and MCF7 cell lines)
- RNA and DNA extraction
- DNA extraction and monocytes isolation from human blood
- RNA-seq libraries preparation (Experion, Qubit...)
- Transcriptome analyses -Basic

Bioinformatics

Abstracts and papers:

- Pollastro C, Ziviello C, Costa V, Ciccodicola A, "Pharmacogenomics of Drug Response in Type 2 Diabetes: Toward the Definition of Tailored Therapies?", PPAR Res. 2015.
- A. Federico, C. Pollastro, C. Ziviello, M. Aprile, M. L. Balestrieri, V. Costa, G. Paolisso, R. Marfella and A. Ciccodicola, " Preliminary computational analysis of the influence of Type 2 Diabetes on myocardial post-infarction transcriptome". Poster SIGU 2015
- A. Federico, C. Pollastro, C. Ziviello, M. Aprile, M. L. Balestrieri, V. Costa, G. Paolisso, R. Marfella and A. Ciccodicola, " Preliminary computational analysis of the influence of Type 2 Diabetes on myocardial post-infarction transcriptome". Poster BCC 2015
- Costa V, Federico A, Pollastro C, Ziviello C, Cataldi S, Formisano P, Ciccodicola A. Computational Analysis of Single Nucleotide Polymorphisms Associated with Altered Drug Responsiveness in Type 2 Diabetes. Int J Mol Sci. 2016 Jun 25;17(7).

Pollastro et al. in progress (paper) Naples, Italy

[01/12/2011 – 01/01/2014](#)

Guide for Paleontology Museum, Università "Federico II"

Museo Paleontologia Napoli Università "Federico II", Napoli (Italy)
Napoli, Italy

[01/04/2010 – 30/03/2011 – Lisbon, Portugal](#)

Research Assistant @Ispa-lu (Portugal)
Unidade de Investigação em Eco-etologia (Prof.R.Oliveira)
ISPA-lu. Ref: Prof. David Gonçalves
In situ Hybridization technique for *Oreochromis mossambicus*

key words:

in situ (cryosections) social
behaviour uorescence
microscopy

Rua Jardim do Tabaco, 34, 1149-041, Lisboa, Portugal

22/09/2009 – 30/03/2010 – Lisbon, Portugal

Molecular biology (Master's thesis) in Portugal
Unidade de Investigação em Eco-etologia (Prof.R.Oliveira)
ISPA-lu. Ref: Prof. David Gonçalves
Behavioural study of males and sneakers in *Salaria pavo*

key words: RNA
extraction cDNA
synthesis qPCR
Behavioural observations Androgen
receptors

Abstracts and papers:

- D. Gonçalves, M. M. Carvalho, M. Baruzzo, F.ValYrio, C. Pollastro, R.F. Oliveira. Androgen mediation of male alternative reproductive tactics in a sh: Androgen receptor expression and reactivity to androgen administration in multiple tissues. Program No. 819.04. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2011
- D. Gonçalves, M. Baruzzo, C. Pollastro, R.F. Oliveira, Dissociation of androgen effects in different tissues by regulation of androgen receptor genes in a polymorphic sh. Poster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2014

Pollastro et al. in progress (paper)
Rua Jardim do Tabaco, 34, 1149-041, Lisboa, Portugal

09/09/2008 – 19/09/2008

Internship
Legambiente Piemonte e Valle d'Aosta
Dragon ies census in the area of Avigliana's lake (Piemonte)
Legambiente Piemonte e Valle d'Aosta via Thour 8, 10100, Torino, Italy

03/08/2007 – 23/08/2007

Internship
Parco Nazionale d'Abruzzo, Lazio e Molise

Individuation and Construction of new paths in the park through the use of GPS and "CAI" Cartography, archeological activities at Opi's necropolis , Patrolling paths 'signs through using of GPS' and cartography's technics, faunistical observations Via Roma, Villetta Barrea(AQ), Italy

18/08/2006 – 10/09/2006

Internship

Parco Nazionale D'Abruzzo Lazio e Molise

Faunistical Impact Evaluation, Patrolling paths 'signs through using of GPS' and Cartography's technics, Faunistical observations, , Field 's activities with the Guardia Forestale dello Stato, Maintenance of the paths of the park

Via Roma, Villetta Barrea(AQ), Italy

01/10/2005 – 30/10/2005

Internship in Algae Biology

Real Orto Botanico, Università degli studi di Napoli "Federico II"

Maintenance of Algae collection in the Algology Department of Università degli studi di Napoli. Microalgae cell counting (Bürker) . Via Foria, 80100, Napoli, Italy

21/01/2005 – 06/05/2005

Tutor for in-coming students

Centro d'Ateneo per l'Orientamento, la Formazione e la Teledidattica(SOF-TEL)dell'Università degli

Infopoint for in-coming students and students from Maths', Fisics' and Natural Sciences' departments.

Information and communication / Via Partenope n° 36, 80100, Napoli, Italy

EDUCATION AND TRAINING

01/01/2014 – 03/04/2017 – Napoli, Italy

PhD

Parthenope University of Naples/"ABT"IGB-CNR/Universität Innsbruck, Napoli (Italy)

01/09/2007 – 11/07/2011 – Via Verdi, 8, Torino, Italy Master's degree in Evolution of human and animal behaviour

Università degli studi di Torino

Morphology, Comparative Anatomy, Ethology, marine and human Ecoethology, Evolutionary physiology , Biometry, Psychology, Neuroendocrinology, etc.

109/110+thesis' publication Field(s) of study

Neuroscience

ISCED 6

01/11/2001 – 20/03/2007 – Via Mezzocannone, Napoli, Italy

Bachelor's degree in Natural Sciences

Università Degli Studi di Napoli "Federico II ", Facoltà di Scienze MM.FF.NN., Corso di Laurea in S

Zoology, Animal Physiology, Plants' Physiology, Entomology, Mycology, Botantics, Algology, Ecology, Geology, etc.

107/110 Field(s) of

study

Biology

ISCED 5

01/09/1997 – 07/07/2001 – Via Carlo Pecchia, Napoli, Italy

Maturità classica

Liceo ginnasio classico "G. Garibaldi"

Literature, ancient greek, latin

98/100

Field(s) of study

Humanities ISCED 3

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening B2

Reading B2

Spoken
production
B2

Spoken
interaction
B2

Writing B2

Portugues

Listening B2

Reading B2

Spoken
production
B2

Spoken
interaction
B2

Writing B2

Spanish

Listening A1

Reading A1

Spoken
production
A1

Spoken
interaction
A1

Writing A1

DIGITAL SKILLS

UCSC Genome Browser / Microsoft Word / BLAST / Skype / Zoom / IMAGEJ / ZFIN / Genetic analysis (Chromas, Gene Runner, ClustalX, MEGA) / Rna-Seq / Clustal Omega / SWISS MODEL Jmol RASMOL and Blast / Blast / BLAT / KEGG / PANTHER / R / Aniseed / Network analysis: Cytoscape / Pubmed, NCBI, Protparam, PDB, Uniprot, Unigene, Protein atlas, STRING, KEGG, EnrichR / Geneious Prime / Phylogenetic Tools: BioEdit, MEGA, PAUP*, MrBayes, PhyML / / Basic operational skill in PyMOL / iTasser

PUBLICATIONS

Publications

- D. Gonçalves, M. M. Carvalho, M. Baruzzo, F. Valério, C. Pollastro, R.F. Oliveira. Androgen mediation of male alternative reproductive tactics in a sh: Androgen receptor expression and reactivity to androgen administration in multiple tissues. Program No. 819.04. 2011
Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2011
- D. Gonçalves, M. Baruzzo, C. Pollastro, R.F. Oliveira, Dissociation of androgen effects in different tissues by regulation of androgen receptor genes in a polymorphic sh. Poster. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2014
- Pollastro C, Ziviello C, Costa V, Ciccodicola A, "Pharmacogenomics of Drug Response in Type 2 Diabetes: Toward the Definition of Tailored Therapies?", PPAR Res. 2015.
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- Pollastro C., Liberti A., Spagnuolo A. and Sordino P. Evolutionary based in silico tracing of the immune genetic repertoire in *Ciona robusta*. Poster. Euro Evo-Devo 2022
- Liberti A., Pollastro C., Marino R., Spagnuolo A. and Sordino P. The invertebrate *Ciona robusta* as a model for studying inflammatory mechanisms. Poster. WCI 2022

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- 2000/2001: cultural exchange at CIV in Sophia-Antipolis (France, Cote d'Azur).
- September 2009: Erasmus student in Portugal (Lisbon) for 3 months.
- 2009-2011 Research assistant (Molecular biology lab) in Lisbon (Portugal) at ISPA-Iu/FCT
- 2016: Abroad period during PhD in Innsbruck (Austria). abroad supervisor: Robin A. Kimmel
- "Giochi senza barriere", Napoli, 2014, 2015. Scientific Communication
- Museum guide, Paleontology Museum of Naples "Federico II", 2013-2014
- Scientific communicator, Days of Dinosaurs, 2013

JOB-RELATED SKILLS

Job-related skills

My professional profile was born as neurobiologist and then I've acquired a biomedical approach and a strong expertise in genetics and molecular biology. During my career I've also elaborated some expertises in immunohistochemistry, in situ hybridization, cloning, cell culture, animal handling, microscopy (fluorescent and confocal), extraction of monocytes (to put them in culture) and nucleic acids from human blood, and other techniques necessary to the results of my studies. I've also acquired some basic skills in bioinformatics. Moreover, during my PhD, I have also performed a tutoring activity for master students' internship or thesis.

Since 2020 I'm a SIGU (società italiana di genetica umana) member

Participation at VI International Meeting Steroids and Nervous System Abroad
research periods: 2009-2011 Portugal, 2016 Austria.

FENS PhD course "Neural development and neurodevelopment disorders", 22nd-26th Sept Turin, Italy

Chromatin, Epigenome and Drug Discovery training school, 21st-23rd March 2016, Napoli PhD Course: "Global Climate Change", 2nd-5th May 2014

PhD Course: "Global Climate Change: Impacts on environmental variability in oceanic system", 2nd- 6th March 2015

PhD Course: "Smart cities", 24th-28th March 2014 Bachelor's degree thesis : Coevolutionary relations between pollinators and orchids.

Master's degree thesis: Neuroendocrine control of male reproductive behaviour in the blenny *Salarias pavo*.

Published Master thesis on Pubblitesi=
<http://lnx.pubblitesi.it/schedesintetiche/area-scientifica/751- neuroendocrine-control-of-malereproductive-behavior-in-the-blenny-salaria-pavo?hitcount=0>

Project PON01_02460: STUDY FOR THE DEVELOPMENT OF A
DIAGNOSTIC TOOL TO ACHIEVE PERSONALIZED THERAPEUTIC
STRATEGIES FOR TYPE 2 DIABETES BY GENOMIC AND
TRANSCRIPTOMIC APPROACHES

OTHER

Other

A conoscenza di quanto prescritto agli art 46 e seguenti del D.P.R. 28 dicembre 2000 n. 445, sulla responsabilità penale cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, nonché di quanto prescritto dall'art. 75 del D.P.R. 28 dicembre 2000 n. 445, sulla decadenza dai benefici eventualmente conseguenti al provvedimento emanato sulla base di dichiarazioni non veritiere, ai sensi e per gli effetti del citato D.P.R. n. 445/2000 art 46, e sotto la propria personale responsabilità dichiaro che tutte le informazioni contenute nel proprio curriculum vitae sono veritiere. Presto consenso all'utilizzo dei dati personali in conformità al Regolamento Generale sulla Protezione dei Dati (RGPD) n. 679/2016 ed al D.Lgs. 10 agosto 2018, n. 101 in materia di protezione dei dati personali