

# ***Curriculum vitae of Alberto Pallavicini***

## **Personal information, address and web site**

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Phone / fax	+39-040-558-8736
<b>Current position</b>	<b>Associate Professor, University of Trieste, Italy</b>

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## **Main areas of research**

My research activities span different field starting in the 90's from Human genetics to the application of advanced genomics methodologies to non model organisms. In the last 15 years my main research topics are in fact focused on genomics and molecular immunology of the mollusc bivalve *M. galloprovincialis*. This intense research activities is reported by the publication of about 100 peer-reviewed papers. I would like to mention here the environmental genetic studies on *M. galloprovincialis*. Since the very first years of the XXI century I have developed a collection of cDNA clones for the analysis of gene expression in the Mediterranean mussel. The use of bivalve mollusc in the monitoring of chemical contamination of coastal environments has, for decades, used in both the US and in many European countries in international programs of Mussel Watch. Integrating my biotechnology skills I have developed a protocol for genetic analysis to highlight the biotic and abiotic contamination in the mussel. Deeply analyzing the mussel genome I have contributed to depict the immunology of this animal and I have discovered a numbers of peptides with biotechnological interest. In the frame of several collaborations with colleagues of different organization (Universities and Research centers) I have implemented the most advanced genomic tools in the most different scientific area such as botany, animal husbandry and environmental biology. Just as example, I can mention here the development of genomics on crayfish and metagenomics analysis in marine environment.

## **Citation Report**

Published more than 100 ISI-listed papers and 2 book chapters, edited 1 book; H-Index = 278, Average Citations per Article: 26.53 (obtained from information on the Scopus and WOS as of July 2018); ResearcherID, J-4158-2012; ORCID, <http://orcid.org/0000-0001-7174-4603>

## **Description of academic career and positions held to date**

### **Academic qualifications**

- 1990 – 1993 Biological Sciences Degree at the University of Padova with the grade of 108/110 defending a thesis titled “Cloning of globin mRNAs expressed in *L. zanandreae* before and after metamorphosis.” (A.A. 1992-1993).
- 1996 – 1998 Ph.D. in Genetics, University of Ferrara.
- 1999 – 2000 Post-doc in Human genetics, University of Padova.

### **Employment history**

- 2000 – 2005 Tenured Research Scientist in Genetics, University of Trieste
- 2005 - present Associated Professor of Genetics, University of Trieste

### **Highest academic prizes/recognition received**

#### **Five most important invitations to present at scientific conferences**

- Invited speaker at the 11th International Congress of the International Society of Comparative Immunology and Development ISDCI 2009 dal 28-06-2009 al 04-07-2009
- Invited speaker at Plant and Animal Genome Conference PAG XVIII Transcriptome analysis of *C. arabica* dal 11-01-2010 al 15-01-2010
- Invited speaker at the XIVth scientific meeting of the Italian Association of Developmental and Comparative Immunobiology (IADCI) dal 14-02-2013 al 16-02-2013
- Chair of the Population Genetics and Genomics session of the 3rd Colloquium of Genetics organised by the GENETIC SOCIETY OF SLOVENIA dal 13-09-2013 al 13-09-2013
- Organizer of the XVI meeting of the ITALIAN ASSOCIATION OF DEVELOPMENTAL AND COMPARATIVE IMMUNOBIOLOGY dal 18-02-2015 al 20-02-2015

#### **Peer review activities, editorships and/or memberships in academic organisations**

Review activities for Developmental and Comparative Immunology, Fish and Shellfish Immunology, Marine Drugs, BMC genomics, BMC plant biology, Genome Biology, Genome Research, Plos Genetics, Plos Biology, Genetics, Marine genomics. Review of grant proposals for: University of Padua (Italy), MIUR (Ministry of Education), CSIC (SPAIN), CNRS (France), NOAA (USA). Member of the following scientific society: Italian Genetics Society (AGI), Italian Society of Developmental and Comparative Immunology (SIICS), Italian Society of Applied Research in Bivalve Aquaculture (SIRAM), International Coffee genomics network (ICGN)

Associate to Zoological Station Anton Dohrn SZN (Naples-Italy), National Institute of Oceanography and Applied Geophysics OGS (Trieste-Italy), Consorzio InterUniversitario per le Scienze del Mare (CONISMA)

### **Five most important research projects funded in the past**

- L.R.26/2005 Art. 17: RAF/9/7.15/41057 2009 Sviluppo e applicazioni di tecnologie genomiche avanzate per il controllo della contaminazione biotica in mitili destinati al consumo umano. dal 01-01-2009 al 31-03-2011. 200k€
- PRIN 2008: Diversità molecolare e caratterizzazione funzionale di molecole ad azione antimicrobica in pesci e molluschi bivalvi. dal 22-03-2010 al 22-03-2012. 40k€
- FP7-KBBE-2010-4: BIVALIFE Controlling infectious diseases in oysters and mussels in Europe from 01-02-2011 to 31-01-2014. 40k€
- Interreg Italia -Slovenia 2007-2013: BioDiNet Rete per la conservazione della biodiversità e del paesaggio culturale from 01-09-2011 to 01-10-2014. 200k€
- LIFE 10 NAT / IT / 000239: 2011RARITY Eradicazione del gambero rosso della Louisiana e protezione dei gamberi di fiume del Friuli Venezia Giulia from 01-09-2011 to 31-08-2014. 100k€
- VIVALDI, A H2020 EUROPEAN PROJECT AIMING AT PREVENTING ET MITIGATING FARMED BIVALVE DISEASES. European Union's Horizon 2020 Research and innovation programme under grant agreement N° 678589 01-03-2016 to 27-2-2020. 200k€

### **Names and institutions of key international cooperation partners in the last five years**

- Antonio Figueras, Instituto de Investigaciones Marinas. CSIC VIGO, Spain
- Manfred Scharl, Physiological Chemistry, University of Würzburg, Biozentrum, Am Hubland, 97070 Würzburg, Germany
- Christopher Secombes, Regius Professor of Natural History, University of Aberdeen
- Nicolas Puillandre, Assistant Professor, Museum National d'Histoire Naturelle, ISyEB - Institut de Systématique, Paris, France
- Moshe Tom, National Institute of Oceanography, Haifa, Israel

## Ten most cited publications in the last ten years (2008-2017)

- Amemiya, C.T., Alfoldi, J., Lee, A.P., Fan, S., Philippe, H., MacCallum, I., Braasch, I., Manousaki, T., Schneider, I., Rohner, N., Organ, C., Chalopin, D., Smith, J.J., Robinson, M., Dorrington, R.A., Gerdol, M., Aken, B., Biscotti, M.A., Barucca, M., Baurain, D., Berlin, A.M., Blatch, G.L., Buonocore, F., Burmester, T., Campbell, M.S., Canapa, A., Cannon, J.P., Christoffels, A., De Moro, G., Edkins, A.L., Fan, L., Fausto, A.M., Feiner, N., Forconi, M., Gamiieldien, J., Gnerre, S., Gnirke, A., Goldstone, J.V., Haerty, W., Hahn, M.E., Hesse, U., Hoffmann, S., Johnson, J., Karchner, S.I., Kuraku, S., Lara, M., Levin, J.Z., Litman, G.W., Mauceli, E., Miyake, T., Mueller, M.G., Nelson, D.R., Nitsche, A., Olmo, E., Ota, T., **Pallavicini, A.**, Panji, S., Picone, B., Ponting, C.P., Prohaska, S.J., Przybylski, D., Saha, N.R., Ravi, V., Ribeiro, F.J., Sauka-Spengler, T., Scapigliati, G., Searle, S.M.J., Sharpe, T., Simakov, O., Stadler, P.F., Stegeman, J.J., Sumiyama, K., Tabbaa, D., Tafer, H., Turner-Maier, J., Van Heusden, P., White, S., Williams, L., Yandell, M., Brinkmann, H., Volff, J.-N., Tabin, C.J., Shubin, N., Scharl, M., Jaffe, D.B., Postlethwait, J.H., Venkatesh, B., Di Palma, F., Lander, E.S., Meyer, A., Lindblad-Toh, K. The African coelacanth genome provides insights into tetrapod evolution (2013) *Nature*, 496 (7445), pp. 311-316. Cited 230 times.
- Denoeud, F., Carretero-Paulet, L., Dereeper, A., Droc, G., Guyot, R., Pietrella, M., Zheng, C., Alberti, A., Anthony, F., Aprea, G., Aury, J.-M., Bento, P., Bernard, M., Bocs, S., Campa, C., Cenci, A., Combes, M.-C., Crouzillat, D., Da Silva, C., Daddiego, L., De Bellis, F., Dussert, S., Garsmeur, O., Gayraud, T., Guignon, V., Jahn, K., Jamilloux, V., Joët, T., Labadie, K., Lan, T., Leclercq, J., Lepelley, M., Leroy, T., Li, L.-T., Librado, P., Lopez, L., Muñoz, A., Noel, B., **Pallavicini, A.**, Perrotta, G., Poncet, V., Pot, D., Priyono, Rigoreau, M., Rouard, M., Rozas, J., Tranchant-Dubreuil, C., VanBuren, R., Zhang, Q., Andrade, A.C., Argout, X., Bertrand, B., De Kochko, A., Graziosi, G., Henry, R.J., Jayarama, Ming, R., Nagai, C., Rounsley, S., Sankoff, D., Giuliano, G., Albert, V.A., Wincker, P., Lashermes, P. The coffee genome provides insight into the convergent evolution of caffeine biosynthesis (2014) *Science*, 345 (6201), pp. 1181-1184. Cited 95 times.
- Venier, P., De Pittà, C., Bernante, F., Varotto, L., De Nardi, B., Bovo, G., Roch, P., Novoa, B., Figueras, A., **Pallavicini, A.**, Lanfranchi, G. MytiBase: A knowledgebase of mussel (*M. galloprovincialis*) transcribed sequences (2009) *BMC Genomics*, 10, art. no. 72, . Cited 85 times.
- Venier, P., Varotto, L., Rosani, U., Millino, C., Celegato, B., Bernante, F., Lanfranchi, G., Novoa, B., Roch, P., Figueras, A., **Pallavicini, A.** Insights into the innate immunity of the Mediterranean mussel *Mytilus galloprovincialis* (2011) *BMC Genomics*, 12, art. no. 69, . Cited 76 times.
- Pallavicini, A.**, del Mar Costa, M., Gestal, C., Dreos, R., Figueras, A., Venier, P., Novoa, B. High sequence variability of myticin transcripts in hemocytes of immune-stimulated mussels suggests

ancient host-pathogen interactions (2008) *Developmental and Comparative Immunology*, 32 (3), pp. 213-226. Cited 61 times.

Gerdol, M., Manfrin, C., De Moro, G., Figueras, A., Novoa, B., Venier, P., **Pallavicini, A.** The C1q domain containing proteins of the Mediterranean mussel *Mytilus galloprovincialis*: A widespread and diverse family of immune-related molecules (2011) *Developmental and Comparative Immunology*, 35 (6), pp. 635-643. Cited 53 times.

Gestal, C., Roch, P., Renault, T., **Pallavicini, A.**, Paillard, C., Novoa, B., Oubella, R., Venier, P., Figueras, A. Study of diseases and the immune system of bivalves using molecular biology and genomics (2008) *Reviews in Fisheries Science*, 16 (SUPPL.1), pp. 131-154. Cited 48 times.

Toubiana, M., Gerdol, M., Rosani, U., **Pallavicini, A.**, Venier, P., Roch, P. Toll-like receptors and MyD88 adaptors in *Mytilus*: Complete cds and gene expression levels (2013) *Developmental and Comparative Immunology*, 40 (2), pp. 158-166. Cited 47 times.

Gestal, C., **Pallavicini, A.**, Venier, P., Novoa, B., Figueras, A. MgC1q, a novel C1q-domain-containing protein involved in the immune response of *Mytilus galloprovincialis* (2010) *Developmental and Comparative Immunology*, 34 (9), pp. 926-934. Cited 44 times.

Gerdol, M., De Moro, G., Manfrin, C., Venier, P., **Pallavicini, A.** Big defensins and mytimacins, new AMP families of the Mediterranean mussel *Mytilus galloprovincialis* (2012) *Developmental and Comparative Immunology*, 36 (2), pp. 390-399. Cited 34 times.