

Curriculum Vitae

Angelo Fortunato

Education

Doctor of Philosophy degree, Experimental and Clinical Oncology, Department of Experimental Pathology and Oncology, University of Florence, Italy.

Doctor of Philosophy degree, Department of Ecology and Evolutionary Biology, Rice University, Texas, USA.

Qualified as a Professional Biologist, University of Florence/Ministry of Education, University and Research, Italy.

Laurea (equivalent to masters degree) in Biological Science, Dep. of Animal Biology and Genetics, University of Florence, Italy.

Current position

Assistant Research Professor, Biodesign Institute, Arizona State University, Tempe, Arizona, USA.

Professional experiences

A. Research Scientist, Biodesign Institute, Arizona State University, Tempe, Arizona, USA.

Associate Specialist, Department of Surgery, University of California, San Francisco, CA, USA.

Postdoctoral Researcher, Department of Experimental and Clinical Biomedical Sciences “Mario Serio”, University of Florence, Italy.

Postdoctoral Researcher, Department of Experimental and Clinical Medicine (former Dep. of Experimental Pathology and Oncology), University of Florence, Italy.

Contract Researcher, Department of Gynecology, Perinatal Medicine and Human Reproduction, University of Florence, Italy.

Postdoctoral Fellow, Department of Neuroscience, Molecular Medicine, University of Siena, Italy.

Research Associate, The Wellcome Trust Sanger Institute, Hinxton, Cambridge, UK.

Contract Researcher, postdoctoral, Institute Jacques Monod, CNRS, Universités Paris 6 et 7, Paris, France.

Visiting Scholar, Rice University, Houston, Texas, USA

PUBLICATIONS

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30. IRDANI T., **FORTUNATO A.** and TORRE R. 2015. An ultra-rapid cryo-technique for complex organisms. **Cryobiology**, 2015, Oct 21. pii: S0011-2240(15)00394-6. doi: 10.1016/j.cryobiol.2015.10.144
29. BODDY A.M. **FORTUNATO A.**, WILSON SAVRES M AND AKTIPIS A. 2015. Fetal microchimerism and maternal health: A review and evolutionary analysis of cooperation and conflict beyond the womb. **Bioessays**, 37(10):1106-18. doi: 10.1002/bies.201500059. Epub 2015 Aug 28.
28. CROCIANI O., ZANIERI F., PILLOZZI S., LASTRAIOLI E., STEFANINI M., FIORE A., **FORTUNATO A.**, D' AMICO M., MASSELLI M., DELORENZO E., CHIU M., BUSSOLATI O., BECHETTI A. and ARCANGELI A. 2013. hERG1 channels modulate integrin signaling to trigger angiogenesis and tumor progression in colorectal cancer. **Scientific Reports**, 3: 3308, DOI: 10.1038/srep03308.
27. PILLOZZI S. *, **FORTUNATO A.** *, DE LORENZO E., BORRANI E., GIACHI M., SCARSELLI G., NOCI I., ARCANGELI A. 2013. Role for LH/hCG-R in distant metastasis in an endometrial cancer mouse model.
* equally contributed to the paper. **Frontiers in Cancer Endocrinology**, doi: 10.3389/fonc.2013.00285.

26. **FORTUNATO A.** GASPAROLI L., FALSINI S., BONI L. and ARCANGELI A. 2013. An analytical method for the quantification of *hERG1* channel gene expression in human colorectal cancer. **Diagnostic Molecular Pathology**, Epub: 2013 Nov 4.
25. FALSINI S., RISTORI S., CIANI L., **FORTUNATO A.** and ARCANGELI A. 2013. Advances in lipid-based platforms for RNAi therapeutics. **Journal of Medicinal Chemistry**, DOI: 10.1021/jm400791q, Epub: September 18, 2013
24. FIORE A., CARRARESI L., MORABITO A., POLVANI S., **FORTUNATO A.**, LASTRAIOLI E., FEMIA AP, DE LORENZO E., CADERNI G and ARCANGELI A. 2013. Characterization of hERG1 channel role in mouse colorectal carcinogenesis. **Cancer Medicine**, **2 (5): 583–594**.
23. **FORTUNATO A.** and S. TURILLAZZI. 2012. Dufour's gland possible role in the evolution of sting morphology and function in hover wasps (Hymenoptera Stenogastrinae). **Arthropod Structure & Development** 41: 259-264.
22. ARCANGELI A., NOCI I., **FORTUNATO A.** and SCARSELLI GF. 2010. The LH/hCG Axis in Endometrial Cancer: A New Target in the Treatment of Recurrent or Metastatic Disease. **Obstetrics and Gynecology International**, doi:10.1155/2010/486164. Epub 2010 Jul 15.
21. **FORTUNATO A.** 2009. Quantitative high-throughput analysis of synthetic genetic interactions in *Caenorhabditis elegans* by RNA interference. **Genomics**, 93: 392-396.
20. **FORTUNATO A.** 2009. The cost of being bright. **Journal of Insect Behavior**, **22: 49-53**.
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17. **FORTUNATO A.** and A.G. FRASER. 2005. Uncover genetic interactions in *Caenorhabditis elegans* by RNA interference. **Bioscience Reports**, **25(5/6): 299-307**.
16. ROMANI R., ISIDORO N., RIOLO P., BIN F., **FORTUNATO A.**, TURILLAZZI S., BEANI L. 2005. A new role for antennation in paper wasps

(Hymenoptera: Vespidae): antennal courtship and sex dimorphic glands in antennomeres. **Insectes Sociaux**, **52**: 96-102.

15. STRASSMANN J.E., **FORTUNATO A.**, CERVO R., TURILLAZZI S., DAMON J.M. AND QUELLER D.C. 2004. The cost of queen loss in the social wasp *Polistes dominulus*. **Journal of the Kansas Entomological Society**, **77(4)**: 343-355.

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13. QUELLER D. C., K.F. FOSTER, **A. FORTUNATO** AND J.E. STRASSMANN. 2003. Cooperation and conflict in the social amoeba, *Dictyostelium discoideum*. In: T. Kikuchi, T., N. Azuma and S. Higashi, S. (eds.), **Genes, Behaviors and Evolution of Social Insects** (pps. 173-200). Hokkaido University Press, Sapporo, Japan.

12. **FORTUNATO A.**, D.C. QUELLER AND J.E. STRASSMANN. 2003. A linear dominance hierarchy among clones in chimeras of the social amoeba, *Dictyostelium discoideum*. **Journal of Evolutionary Biology**, **16(3)**: 438-445.

11. **FORTUNATO A.**, J.E. STRASSMANN, L. SANTORELLI AND D.C. QUELLER. 2003. Co-occurrence in nature of different clones of the social amoeba, *Dictyostelium discoideum*. **Molecular Ecology**, **12**: 1031-1038.

10. FOSTER K.R., **FORTUNATO A.**, STRASSMANN J.E. AND QUELLER D.C. 2002. The costs and benefits of being a chimera. **Proceedings of Royal Society of London Series B: Biological Sciences**, **269**: 2357-2372.

9. BEANI L., M. F. SLEDGE, S. MAIANI, F. BOSCARO, M. LANDI, **A. FORTUNATO**, S. TURILLAZZI. 2002. Behavioral and chemical analyses of scent-marking in the lek system of a hover-wasp (Vespidae, Stenogastrinae). **Insectes Sociaux**, **49**: 275-281.

8. **FORTUNATO A.**, R. MAILE, S. TURILLAZZI, E.D. MORGAN, G. MONETI, G.R. JONES AND G. PIERACCINI. 2001. Defensive role of the secretion of Ectal Mandibular glands of the wasp *Polistes dominulus*. **Journal of Chemical Ecology**, **27**: 569-579.

7. **FORTUNATO A.**, TURILLAZZI S. AND G. DELFINO. 2000. Ectal mandibular gland in *Polistes dominulus* (Christ) (Hymenoptera: Vespidae) ultrastructural modifications over the secretory cycle. **Journal of Morphology**, **244**: 45-55.

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3. **FORTUNATO A.** AND C. COSTER-LONGMAN. 2000. Reproductive behavior and related anatomical structures for the production of pheromones and luminous signals in the male of *Metischnogaster* (Vespidae: Stenogastrinae). **Insect Social Life, 3: 27-28.**

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Identification and characterization of genes involved in the development and progression of colorectal and endometrial cancers. **Thesis of Doctor of Philosophy, University of Florence, Italy, 2012. Biblioteca Nazionale Centrale di Firenze, Collocazione: TDR 130 00753, Inventario: CTFD0018280**

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Morfologia e ultrastruttura delle ghiandole mandibolari ectali di *Polistes dominulus* e possibile funzione della loro secrezione. **Thesis of Laurea, University of Florence, 1999.**

