

Eva Jimenez-Guri
Marie Skłodowska-Curie Action Fellow
Stazione Zoologica Anton Dohrn Naples
Villa Comunale, 80121 Napoli, Italy

Academic Career

From March 2021 **MSCA Research Fellow**, Stazione Zoologica Anton Dohrn Naples, Italy with Dr. M Ina Arnone. 'Microplastics: morphological and genetic developmental effects in a marine invertebrate'.

From February 2021 **Honorary Senior Lecturer**. College of Life and Environmental Sciences. University of Exeter, UK.

2017–2021 **Postdoctoral research associate**. College of Life and Environmental Sciences. University of Exeter, UK with Prof. Brendan Godley. 'Effects of plastic contamination in the development of marine invertebrates'.

2019 **Visiting Researcher**. Stazione Zoologica Anton Dohrn Naples, Italy.

2010–2016 **Postdoctoral research associate**. EMBL/CRG Research Unit in Systems Biology, Center for Genomic Regulation, Spain with Dr. Johannes Jaeger. 'The evolution of developmental gene regulatory networks'.

2010 **Visiting researcher**. Molecular Biology Laboratory, Cambridge, UK.

2007–2010 **Beatriu de Pinós Postdoctoral research fellow**. University Pompeu Fabra, DCEXS, Spain with Dr. Cristina Pujades. 'Specification of rhombomeric boundaries and the evolution of gene families involved in the vertebrate hindbrain patterning'.

2008 **Visiting Researcher**. Centro Andaluz de Biología del Desarrollo, Spain, 2008.

2003–2007 **BBSRC Postdoctoral research associate**. University of Oxford, UK with Prof. Peter Holland. 'Myxozoan phylogeny and simplification of body plans'.

2002 **Visiting researcher**. Institute of Cell, Animal and Population Biology, Ashworth laboratories, University of Edinburgh, UK.

1998–2003 **PhD in Biology (Genetics)**. University of Barcelona, Spain with Dr. Jordi Garcia-Fernandez and Dr. Emili Saló. 'Hox and ParaHox genes in Acoela and Nemertodermatida: Evo-Devo approach to the origin of bilaterians'. (Dissertation defended July 2003).

1994–1998 **Biology degree**. University of Barcelona, Spain. Specialization: Health Biology. Main subjects: Development, Developmental genetics, Embryology, Human genetics, Genetics, Molecular Genetics, Microbiology, Virology, Immunology, Parasitology

Awards and Licenses

2020: **Marie Skłodowska-Curie Individual Fellowship** (Awarded by European Commission)

2019: **ASSEMBLE Plus Transnational Access**, Italy (Awarded by European Commission)

2019: **ASSEMBLE Plus Transnational Access**, Poland (Awarded by European Commission)

2019: **ASSEMBLE Plus Transnational Access**, Italy (Awarded by European Commission)

2018: **Ray Lankester Investigatorship** (£4,900, Awarded by the Marine Biological Association)

2014: **CRG Research grant** (Awarded by the Center for Genomic Regulation)

2013: **CRG Technology Transfer Projects**, first prize "Improving whole organism biosensors"

2008–2010: **Beatriu de Pinós PostDoctoral Fellowship** (Awarded by the Catalan Government)

1999–2003: **Research and Academic PhD Fellowship** (Awarded by the University of Barcelona)

1997: **Undergraduate Departmental Collaborative Fellowship** (Awarded by the U. of Barcelona)

2012: **Catalan government recognition of teaching and research proven capacity** (*Acreditació AQU Professorat Lector i Col.laborador*)

2008: **Official European license to work with research animals** (*Capacitació de personal investigador usuari d'animals d'experimentació*)

Teaching and Supervision

- 2020-21: **Lecturer:** On-line Pyrenees field course, Second year field course, University of Exeter, UK.
- 2020: **Lecturer:** Introduction to invertebrate Zoology, Biosciences degree. University of Exeter, UK.
- 2018: **Lecturer:** Introduction to invertebrate Zoology, Biosciences degree. University of Exeter, UK.
- 2018: **Lecturer** Approaches in Evolutionary and Behavioral Ecology, Post grad teaching, U. Exeter, UK.
- 2018: **Supervisor** of 1 **MSc by Research** student investigating the effects of microplastic contamination on marine invertebrate embryos (U. Exeter).
- 2001-2014: **Project supervisor** of 6 **undergraduate** students (U. Barcelona, U. Pompeu Fabra, CRG).
- 2014-2016: **Organiser and teacher of the Evolution and Biodiversity Summer School**, for the program “Joves i Ciència” (Fundacio Catalunya la Pedrera), Planes de Son, Spain.
- 2009: **Masters lecturer on Model organisms**, Universitat Pompeu Fabra, Spain.
- 2008-2010: **Lecture on Evo-Devo**, (Biomedical Degree), Universitat Pompeu Fabra, Spain.
- 2008: **Problem Based Learning teacher**. Universitat Pompeu Fabra, Spain.
- 1999-2003: **Practicals teacher**. Leading the practicals in the subjects Molecular Genetics, Comparative Embryology and Genetics and Molecular Biology of Development. U. of Barcelona, Spain.

Publications

- Jimenez-Guri E*, Roberts KE, Garcia FC, Tourmente M, Longdon B, Godley BJ. **Transgenerational effects on development following microplastic exposure in *Drosophila melanogaster***. *PeerJ* 9:e11369 2021 <https://doi.org/10.7717/peerj.11369> *Corresponding author
- Rendell-Bhatti F, Paganos P, Pouch A, Mitchell C, D’Aniello S, Godley BJ, Pazdro K, Arnone I, Jimenez-Guri E*. **Developmental toxicity of plastic leachates on the sea urchin *Paracentrotus lividus***. *Environmental Pollution* Vol 269, 115744. 2021. <https://doi.org/10.1016/j.envpol.2020.115744>. *Corresponding author
- Izquierdo Arànega G, Querejeta Com M, Jimenez-Guri E. **Divergence between the COI-5P gene regions in the Iberian and European lineages of the Eurasian Green Woodpecker *Picus viridis***. *Rev Cat Ornitol* Vol 32. 2020. DOI: 10.2436/20.8100.01.16
- Jimenez-Guri E, Wotton K, Jaeger, J. ***tarsal-less* is expressed as a gap gene but has no gap gene phenotype in the moth midge *Clogmia albipunctata***. *R. Soc. open sci.* 5: 180458. 2018. <http://dx.doi.org/10.1098/rsos.180458> *Corresponding author
- Verd B, Clark E, Wotton K, Janssens H, Jimenez-Guri E, Crombach A, Jaeger J. **A damped oscillator imposes temporal order on posterior gap gene expression in *Drosophila***. *PLoS Biology*. 2018. <https://doi.org/10.1371/journal.pbio.2003174>
- Wotton KR, Alcaine-Colet A, Jaeger J, Jimenez-Guri, E*. Non-canonical dorsoventral patterning in the diptera *Clogmia albipunctata*. *EvoDevo* 2017 8:20. <https://doi.org/10.1186/s13227-017-0083-9> *Corresponding author
- Crombach A, Wotton KR, Jimenez-Guri E, Jaeger J. **Gap gene regulatory dynamics evolve along a genotype network**. *Molecular Biology and Evolution*, msw013. 2016. <https://dx.doi.org/10.1093/molbev/msw013>
- Alcaine-Colet A, Wotton KR, Jimenez-Guri E*. **Rearing the scuttle fly *Megaselia scalaris* (Diptera: Phoridae) on industrial compounds: implications on size and lifespan**. *PeerJ* 3:e1085. 2015. <https://dx.doi.org/10.7717/peerj.1085> *Corresponding author
- Wotton KR, Jiménez-Guri E, Jaeger J. **Maternal co-ordinate gene regulation and axis polarity in the scuttle fly *Megaselia abdita***. *PLoS Genetics*. 2015. <http://doi.org/10.1371/journal.pgen.1005042>
- Wotton KR, Jiménez-Guri E, Crombach A, Cicin-Sain D, Jaeger J. **High-resolution spatio-temporal gap gene expression data from wild-type and RNAi-treated embryos of the scuttle fly *Megaselia abdita***. *Scientific Data*. 2015. <http://doi.org/10.1038/sdata.2015.5>
- Wotton KR, Jiménez-Guri E, Crombach A, Janssens H, Alcaine-Colet A, Lemke S, Schmidt-ott U, Jaeger J. **Quantitative System Drift Compensates for Altered Maternal Inputs to the Gap Gene Network of the Scuttle Fly *Megaselia abdita***. *eLife*. 2015. <http://doi.org/10.7554/eLife.04785>
- Cicin-Sain D, Hermoso Pulido A, Crombach A, Wotton KR, Jiménez-Guri E, Taly JF, Roma G, Jaeger J. **SuperFly: a comparative database for quantified spatio-temporal gene expression patterns in dipteran embryos**. *Nucleic Acids Research*. 2015. <http://doi.org/10.1093/nar/gku1142>

Siggens K, Janssens H, Cicin-Sain D, Jimenez-Guri E, Musy M, Akam M, Jaeger J. **A quantitative atlas of Eve and Hb expression in *Clogmia albipunctata* (Diptera: Psychodidae) embryos.** *EvoDevo*. 5 (1),1. 2014. <http://doi.org/10.1186/2041-9139-5-1>

Jiménez-Guri E, Wotton KR, Gavilán B, Jaeger J. **A staging scheme for the development of the moth midge *Clogmia albipunctata*.** *PLoS One*. 2014 Jan 7;9(1):e84422. <http://doi.org/10.1371/journal.pone.0084422>

Jiménez-Guri E, Wotton KR, García Matheu B, Jaeger J. **A staging scheme for the development of the scuttle fly *Megaselia abdita*.** *PLoS One*. 2014 Jan7;9(1):e84421. <http://doi.org/10.1371/journal.pone.0084421>

Wotton KR, Alcaine-Colet A, Jaeger J, Jimenez-Guri E*. **Evolution and expression of BMP genes in flies.** *Development Genes and Evolution*. 2013 Sep;223(5):335-40. <http://doi.org/10.1007/s00427-013-0445-9> (Third highest accessed DGE paper in 2013) *Corresponding author

Jiménez-Guri E, Huerta-Cepas J, Cozzuto L, Wotton KR, Kang H, Himmelbauer H, Roma G, Gabaldón T, Jaeger J. **Comparative transcriptomics of early dipteran development.** *BMC Genomics*. 2013 Feb 24;14:123. <http://doi.org/10.1186/1471-2164-14-123>

Jimenez-Guri E* and Pujades, C. **An ancient mechanism of hindbrain patterning has been conserved in vertebrate evolution.** *Evolution and Development*,13:1, 38 –46, 2011. <http://doi.org/10.1111/j.1525-142X.2010.00454.x> *Corresponding author

Jimenez-Guri E, Udina F, Colas JF, Sharpe J, Padrón L, Torres M, Pujades C. **Clonal analysis in mice underlines the importance of positional information during hindbrain segmentation.** *PLoS ONE*. 2010 5(4): e10112. <http://doi.org/10.1371/journal.pone.0010112>

Jimenez-Guri E, Okamura B. ***Buddenbrockia*.** Book Chapter. *McGraw-Hill Yearbook of Science and Technology 2009*. December 2008.

Kathirithamby J, Johnston J.S., Jimenez-Guri E, Cognato A.I., Gillespie J.J. **Cordelia's Dilemma: High Nucleotide Divergence with Morphological Stasis – How does this Happen in a Dimorphic Parasite with Disparate Hosts?** *Zootaxa*. 2007 1636: 59–68. <http://www.mapress.com/zootaxa/2007f/z01636p068f.pdf>

Jimenez-Guri E, Philippe H, Okamura B, Holland PWH. ***Buddenbrockia* is a cnidarian worm.** *Science*. 2007. 317, 116-118. <http://doi.org/10.1126/science.1142024>

Jimenez-Guri E, Okamura B, Holland PWH. **Origin and evolution of a myxozoan worm.** *Integrative and Comparative Biology*. 2007. <http://doi.org/10.1093/icb/icm026>

Jimenez-Guri E*, Paps J, Garcia-Fernandez J, Saló E. **Hox and ParaHox genes in Nemertodermatida, a basal bilaterian clade.** *International Journal of Developmental Biology*. 2006. 50(8):675-9. <http://doi.org/10.1387/ijdb.062167ej> *Corresponding author

Cook CE, Jiménez E, Akam M, Saló E. **The Hox gene complement of Acoel flatworms, a basal bilaterian clade.** *Evolution and Development*. 2004. May-Jun;6(3):154-63. <http://doi.org/10.1111/j.1525-142X.2004.04020.x>

Pasquinelli AE, McCoy A, Jiménez E, Saló E, Ruvkum G, Martindale MQ, Baguña J. **Expression of the 22 nucleotide Let-7 heterochronic RNA throughout the Metazoa: A role in life history evolution?** *Evolution and Development*. 2003. Jul-Aug;5(4):372-8. <http://doi.org/10.1046/j.1525-142X.2003.03044.x>

Saló E, Tauler J, Jiménez E, Bayascas JR, Gonzalez-Linares J, Garcia-Fernández J, Baguña J. **Hox and ParaHox genes in flatworms. Characterization and expression.** *American Zoologist*. 2001. 41:652-663. [http://doi.org/10.1668/0003-1569\(2001\)041%5B0652:HAPGIF%5D2.0.CO;2](http://doi.org/10.1668/0003-1569(2001)041%5B0652:HAPGIF%5D2.0.CO;2)