

Iñaki Ruiz-Trillo

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Education

- June 1996 **B.Sc. in Biology.** University of Barcelona, Barcelona, Spain.
- October 2002 **Ph.D. Biology.** Department of Genetics, University of Barcelona. Title: “*Acoels and nemertodermatids: basal bilaterians or Platyhelminthes? A multigenic approach to the origin of bilaterian metazoans*”, awarded with *University of Barcelona PhD Prize*. Supervision: Dr. Marta Riutort and Prof. Jaume Baguñà.

Work Experience

- 1996-1999 Lab instructor (“Professor Associat”). **Department of Genetics, University of Barcelona.**
- 1999-2003 PhD Student, University of Barcelona Fellowship, **Department of Genetics, University of Barcelona.**
- 04/1999-08/1999 Visiting Researcher (CIRIT Fellowship). **Department of Biological Sciences, University of Arkansas, USA.**
- 02/2001-05/2001 Visiting Researcher (U.B. Fellowship). **US Department of Energy (DOE) Joint Genome Institute, Walnut Creek, California, USA.**
- 12/2003-12/2005 EMBO Postdoctoral Fellow. **Department of Biochemistry and Molecular Biology, Dalhousie University, Canada.**
- 01/2006-01/2007 CIHR Postdoctoral Fellow. **Department of Biochemistry and Molecular Biology, Dalhousie University, Canada.**
- 02/2007-09/2011 **ICREA Researcher at University of Barcelona.**
- 04/2008-05/2022 **Associate Professor, Department of Genetics, University of Barcelona.**
- 10/2011-present **ICREA Research Professor, Institut de Biologia Evolutiva (CSIC-UPF).**

Current and recent Projects as PI

- 2024-2027 “**El origen de los animales: una aproximación de biología celular (ANIMALORIGIN)**” PI: Elena Casacuberta and Iñaki Ruiz Trillo. Ministerio de Ciencia, Innovación y Universidades (PID2023-153273NB-I00). 345.000 €
- 2023-2027 “**Reconstructing the urmetazoan protein repertoire and interaction network: an integrative phylogenetic, proteomic, and biochemical approach**” PI: Pedro Beltrao, Christophe Dessimoz, Dirk Fasshauer and **Iñaki Ruiz Trillo**. Swiss National Science Foundation; Sinergia (CRS115_216623/1). 2.813.066 €

- 2023-2028 **“Search for the missing unicellular relatives of animals (MISSINGRELATIVES)”** PI: **Iñaki Ruiz Trillo**. European Research Council (101097659 – MISSINGRELATIVES-ERC-2022-ADG). 2.499.948 €
- 2022-2025 **Evolutionary Transitions and Biodiversity group”** Coordinator: **Iñaki Ruiz Trillo**, co-PIs: Elena Casacuberta, Daniel Richter, Ricard Solé. Departament de Recerca i Universitats de la Generalitat de Catalunya (2021 SGR 00751). 60.000 €
- 2021-2023 **“El origen de los animales; una aproximación funcional y de biodiversidad (ORIGINALS)”** Principal Investigators: **Iñaki Ruiz Trillo** and Elena Casacuberta. Ministerio de Ciencia e Innovación (PID2020-120609GB-I00); 350.000 €
- 2018-2020 **“Origin of Animals: Unravelling the nature of the last unicellular ancestor through a genomic, proteomic and functional approach”**. Principal Investigator: **I. Ruiz-Trillo** Ministerio de Economía y Competitividad (BFU2017-90114-P); €304.920€
- 2017-2020 **“New Genetic Tools for Marine Protists”**. Principal Investigator: **I. Ruiz-Trillo and E. Casacuberta**. MMI Experimental Model Systems grant (GBMF4973); Gordon and Betty Moore Foundation; 404.099\$
- 2016-2020 **“SINGEK. Promoting SINGLE cell GENomics to explore the ecology and evolution of hidden microeuKaryotes”**. co-PI; coordinator: Ramon Massana. European Commission (H2020-EU.1.3.1.); 3.889.393,2 €
- 2015-2017 **“Origen, diversificación y diversidad de metazoos, hongos y sus parientes unicelulares; una aproximación ecológica y evolutiva”**. Principal Investigator: **I. Ruiz-Trillo and J. González**. Ministerio de Economía y Competitividad (BFU2014-57779-P); €400,000
- 2015-2016 **“Screening marine holozoans, the closest unicellular relatives of animals”**. Principal Investigator: **I. Ruiz-Trillo and E. Casacuberta**. MMI Experimental Model Systems grant (GBMF4973); Gordon and Betty Moore Foundation; \$130,015
- 2014-2019 **“Unravelling the unicellular prehistory of metazoans by functional analyses and single-cell genomics”**. Principal Investigator: **I. Ruiz-Trillo**. European Research Council (ERCCo-PREMETAZOANEVOLUTION-616960); €1,967,535
- 2012-2014 **“El origen del reino animal: un análisis genómico, filogenómico y de biodiversidad de los linajes unicelulares más cercanos a los animales”**. Principal Investigator: **I. Ruiz-Trillo**. Ministerio de Economía y Competitividad. (BFU2011-23434); 323.070,00 euros
- 2009-2011 **“La transición unicelular-multicelular: una aproximación genómica”**. Principal Investigator: **I. Ruiz-Trillo**. *Ministerio de Ciencia e Innovación. (BFU2008-02839/BMC)*.
- 2008-2013 **“A comparative genomic analysis into the origin of metazoan multicellularity”**. Principal Investigator: **I. Ruiz-Trillo**. An *ERC (European Research Council) Starting Grant* to analyze the origin of multicellularity using comparative and functional genomics (ERC-2007-Stg-206883); €1,211,275
- 2006-2013 **“Animals and Fungi: Common origin, but independent approaches to multicellularity”**. Principal Investigators: G. Burger, P. W. Holland, B. F. Lang, N. King, A. J. Roger, **I. Ruiz-Trillo** & M. W. Gray. A *NHGRI (National Human Genome Research Institute)*-endorsed multi-genome initiative aimed at understanding the origins of both multicellular animals and fungi by obtaining the genome sequence of ten unicellular relatives of animals and fungi.

Publications

A total of 104 articles in high quality scientific journals; the majority of those within the first quartile, and a total of 16 book chapters. Most publications as a first, corresponding or last author. 8568 citations

and a h index of 5, according to Google Scholar (<http://scholar.google.com/citations?user=MJMwbjAAAAAJ&hl=en&oi=ao>).

ISI Journals

1. Thomas A. Richards, Laura Eme, John M. Archibald, [...], Michelle M. Leger, [...], **Iñaki Ruiz-Trillo**, [...], Jeremy G. Wideman (2024) *Reconstructing the last common ancestor of all eukaryotes*. ***PLOS Biology*** 22(11): e3002917
2. Victoria Shabardina, Jennah E. Dharamshi, Patricia S. Ara, Meritxell Antó, Fernando J. Bascón, Hiroshi Suga, Wyth Marshall, Claudio Scazzocchio, Elena Casacuberta & **Iñaki Ruiz-Trillo** (2024) *Ichthyosporea: a window into the origin of animals*. ***Communications Biology*** 1 (2024)7:915
3. Benvenuto G, Leone S, Astoricchio E, Bormke S, Jasek S, D'Aniello E, Kittelmann M, McDonald K, Hartenstein V, Baena V, Escrivà H, Bertrand S, Schierwater B, Burkhardt P, **Ruiz-Trillo I**, Jékely G, Ullrich-Lüter J, Lüter C, D'Aniello S, Arnone MI, Ferraro F. (2024) Evolution of the ribbon-like organization of the Golgi apparatus in animal cells. ***Cell Reports*** 2024 Feb 26:113791
4. **Iñaki Ruiz-Trillo**, Koryu Kin, Elena Casacuberta (2023) *The Origin of Metazoan Multicellularity: A Potential Microbial Black Swan Event*. ***Annual Review of Microbiology*** 77:499-516
5. Steven Boeynaems, Yanniv Dorone, Yanrong Zhuang, Victoria Shabardina, Guozhong Huang, Anca Marian, Garam Kim, Anushka Sanyal, Nesli-Ece Şen, Daniel Griffith, Roberto Docampo, Keren Lasker, **Iñaki Ruiz-Trillo**, Georg Auburger, Alex S. Holehouse, Edor Kabashi, Yi Lin, Aaron D. Gitler (2023) *Poly(A)-binding protein is an ataxin-2 chaperone that regulates biomolecular condensates*. ***Molecular Cell*** 83, 1–15
6. Núria Ros-Rocher, Ria Q. Kidner , Catherine Gerdt, W. Sean Davidson **Iñaki Ruiz-Trillo** and Joseph P. Gerdt (2023) *Chemical factors induce aggregative multicellularity in a close unicellular relative of animals*. ***PNAS*** 110 (18): e2216668120
7. Konstantina Mitsi, Daniel J. Richter, Alicia S. Arroyo, David López-Escardó, Meritxell Antó, Antonio Guillén Oterino and **Iñaki Ruiz-Trillo** (2023) *Taxonomic composition, community structure and molecular novelty of microeukaryotes in a temperate oligomesotrophic lake as revealed by metabarcoding*. ***Scientific Reports*** 13, 3119 (2023)
8. Pei Zhang, Yuanzhen Zhu, Qunfei Guo, Ji Li, Xiaoyu Zhan, Hao Yu, Nianxia Xie, Huishuang Tan, Nina Lundholm, Lydia Garcia-Cuetos, Michael D. Martin, Meritxell Antó Subirats, Yi-Hsien Su, **Iñaki Ruiz-Trillo**, Mark Q. Martindale, Jr-Kai Yu, M. Thomas P. Gilbert, Guojie Zhang and Qiye Li (2023) *On the origin and evolution of RNA editing in metazoans*. ***Cell Reports*** 42 (2), 112112.
9. Victoria Shabardina, Pedro Romero Charria, Gonzalo Bercedo Saborido, Ester Diaz-Mora, Ana Cuenda, **Iñaki Ruiz-Trillo** & Juan Jose Sanz-Ezquerro (2023) *Evolutionary analysis of p38 stress-activated kinases in unicellular relatives of animals suggests an ancestral function in osmotic stress*. ***Open Biology*** 13: 220314.
10. Eduard Ocaña-Pallarès, Tom A. Williams, David López-Escardó, Alicia S. Arroyo, Jananan S. Pathmanathan, Eric Baptiste, Denis V. Tikhonenkov, Patrick J. Keeling, Gergely J. Szöllösi & **Iñaki Ruiz-Trillo** (2022) *Divergent genomic trajectories predate the origin of animals and fungi*. ***Nature*** 609, 747–753 (2022)

11. Xavier Grau-Bové, Cristina Navarrete, Cristina Chiva, Thomas Pribasnik, Meritxell Antó, Guifré Torruella, Luis Javier Galindo, Bernd Franz Lang, David Moreira, Purificación López-García, **Iñaki Ruiz-Trillo**, Christa Schleper, Eduard Sabidó & Arnau Sebé-Pedrós (2022) *A phylogenetic and proteomic reconstruction of eukaryotic chromatin evolution*. ***Nature Ecology and Evolution*** 6, 1007–1023 (2022)
12. Omayá Dudin, Sébastien Wielgoss, Aaron M. New, **Iñaki Ruiz-Trillo** (2022) *Regulation of sedimentation rate shapes the evolution of multicellularity in a close unicellular relative of animals*. ***PLoS Biology*** 20(3): e3001551.
13. Michelle M. Leger, Núria Ros-Rocher, Sebastian R. Najle, **Iñaki Ruiz-Trillo** (2022) *Rel/NF- κ B transcription factors emerged at the onset of opisthokonts*. ***Genome Biology and Evolution***, evab289
14. Iva Guberovic, Sarah Hurtado-Bagès, Ciro Rivera-Casas, Gunnar Knobloch, Roberto Malinverni¹, Vanesa Valero, Michelle M. Leger, Jesús García, Jerome Basquin, Marta Gómez de Cedrón, Marta Frigolé-Vivas, Manjinder S. Cheema, Ainhoa Pérez, Juan Ausió⁹, Ana Ramírez de Molina⁸, Xavier Salvatella, **Iñaki Ruiz-Trillo**, Jose M. Eirin-Lopez, Andreas G. Ladurner and Marcus Buschbeck (2021) *Evolution of a histone variant involved in compartmental regulation of NAD metabolism*. ***Nature Structural & Molecular Biology*** 28, pages1009–1019.
15. Ander Urrutia, Konstantina Mitsi, Rachel Foster, Stuart Ross, Martin Carr, Georgia M. Ward, Ronny van Aerle, Ionan Marigomez, Michelle M. Leger, **Iñaki Ruiz-Trillo**, Stephen W. Feist, David Bass (2021) *Txikispora philomaios n. sp., n. g., a Micro-Eukaryotic Pathogen of Amphipods, Reveals Parasitism and Hidden Diversity in Class Filasterea*. ***Journal of Eukaryotic Microbiology*** doi:10.1111/jeu.12875
16. Aleksandra Kozyczkowska, Sebastian R. Najle, Eduard Ocaña-Pallarés, Cristina Aresté, Victoria Shabardina, Patricia S. Ara, **Iñaki Ruiz-Trillo**, Elena Casacuberta (2021) *Stable transfection in protist Corallochytrium limacisporum identifies novel cellular features among unicellular animals relatives*. ***Current Biology*** 31, 4104-4110
17. Núria Ros-Rocher, Alberto Pérez-Posada, Michelle M. Leger and **Iñaki Ruiz-Trillo** (2021). *The origin of animals: an ancestral reconstruction of the unicellular-to-multicellular transition*. ***Open Biology*** 11: 200359. <https://doi.org/10.1098/rsob.200359>
18. **Iñaki Ruiz-Trillo** and Alex de Mendoza (2020). *Towards understanding the origin of animal development*. ***Development*** (2020) 147, dev192575. doi:10.1242/dev.192575
19. Helena Parra-Acero, Matija Harcet, Núria Sánchez-Pons, Elena Casacuberta, Nicholas H Brown, Omayá Dudin, and **Iñaki Ruiz-Trillo** (2020). *Integrin-Mediated Adhesion in the Unicellular Holozoan Capsaspora owczarzaki*. ***Current Biology*** doi:10.1016/j.cub.2020.08.015
20. Yameng Lu, Eduard Ocaña-Pallarès, David López-Escardó, Stuart R Dennis, Michael T Monaghan, Iñaki Ruiz-Trillo, Piet Spaak, Justyna Wolinska. (2020). *Revisiting the phylogenetic position of Caullerya mesnili (Ichthyosporae), a common Daphnia parasite, based on 22 protein-coding genes*. ***Molecular phylogenetics and evolution (advances access)***
21. AS Arroyo, R Iannes, E Bapteste, **I Ruiz-Trillo**. *Gene similarity networks unveil a potential novel unicellular group closely related to animals from the Tara Oceans expedition*. (2020). ***Genome Biology and Evolution*** (advanced access).
22. Anderson da Silva, Hélio Nobre Jr, Leticia Sampaio, Bruna do Nascimento, Cecilia da Silva, João Batista de Andrade Neto, Ángeles Manresa, Aurora Pinazo, Bruno Cavalcanti, Manoel Odorico de

- Moraes, **Iñaki Ruiz-Trillo**, Meritxell Antó, Carmen Morán, Lourdes Pérez. (2020). *Antifungal and antiprotozoal green amino acid-based rhamnolipids: Mode of action, antibiofilm efficiency and selective activity against resistant Candida spp. strains and Acanthamoeba castellanii*. *Colloids and Surfaces B: Biointerfaces*, 111148.
23. Eduard Ocaña-Pallarès, Zaida Vergara, Bénédicte Desvoyes, Manuel Tejada-Jimenez, Ainoa Romero-Jurado, Aurora Galván, Emilio Fernández, **Iñaki Ruiz-Trillo**, Crisanto Gutierrez. (2020). *Origin recognition complex (ORC) evolution is influenced by global gene duplication/loss patterns in eukaryotic genomes*. *Genome biology and evolution* 12 (2), 3878-3889
 24. D Faktorová, RER Nisbet, JAF Robledo, E Casacuberta, L Sudek, ...**Iñaki Ruiz-Trillo** et al. (2020). *Genetic tool development in marine protists: Emerging model organisms for experimental cell biology*. *Nature methods* 17 (5), 481-494.
 25. Alberto Pérez-Posada, Omayra Dudin, Eduard Ocaña-Pallarès, **Iñaki Ruiz-Trillo**, Andrej Ondracka (2020). *Cell cycle transcriptomics of Capsaspora provides insights into the evolution of cyclin-CDK machinery*. *Plos Genetics* 16 (3), e1008584
 26. Omayra Dudin, Andrej Ondracka, Xavier Grau-Bové, Arthur AB Haraldsen, Atsushi Toyoda, Hiroshi Suga, Jon Bråte, **Iñaki Ruiz-Trillo** (2019). *A unicellular relative of animals generates a layer of polarized cells by actomyosin-dependent cellularization*. *eLife* 2019;8:e49801.
 27. David López-Escardó, Xavier Grau-Bové, Amy Guillaumet-Adkins, Marta Gut, Michael E. Sieracki, **Iñaki Ruiz-Trillo** (2019). *Reconstruction of protein domain evolution using single-cell amplified genomes of uncultured choanoflagellates sheds light on the origin of animals*. *Philosophical Transactions of the Royal Society B* 374: 20190088.
 28. Konstantina Mitsi, Alicia S. Arroyo, **Iñaki Ruiz-Trillo** (2019). *A global metabarcoding analysis expands molecular diversity of Platyhelminthes and reveals novel early-branching clades*. *Biology Letters* 15: 20190182.
 29. Seitaro Denbo, Katsutoshi Aono, Takaaki Kai, Rei Yagasaki, **Iñaki Ruiz-Trillo**, Hiroshi Suga (2019). *Revision of the Capsaspora genome using read mating information adjusts the view on premetazoan genome*. *Development Growth & Differentiation* 61(1): 34–42.
 30. Eduard Ocaña-Pallarès, Sebastián R. Najle, Claudio Scazzocchio, **Iñaki Ruiz-Trillo** (2019). *Reticulate evolution in eukaryotes: Origin and evolution of the nitrate assimilation pathway*. *PLoS GENETICS* 15(2): e1007986.
 31. Maureen A. O'Malley, Michelle M. Leger, Jeremy G. Wideman and **Iñaki Ruiz-Trillo** (2019). *Concepts of the last eukaryotic common ancestor*. *Nature Ecology & Evolution* 3, 338–344 (2019).
 32. Àlbert Rafels-Ybern, Adrian Gabriel Torres, Noelia Camacho, Andrea Herencia-Ropero, Helena Roura Frigolé, Thomas F Wulff, Marina Raboteg, Albert Bordons, Xavier Grau-Bové, **Iñaki Ruiz-Trillo**, Lluís Ribas de Pouplana (2018). *The expansion of Inosine at the wobble position of tRNAs, and its role in the evolution of proteomes*. *Molecular Biology and Evolution* 36(4):650–662.
 33. Jon Brate, Ralf S. Neumann, Bastian Fromm, Arthur A.B. Haraldsen, James E. Tarver, Hiroshi Suga, Philip C.J. Donoghue, Kevin J. Peterson, **Iñaki Ruiz-Trillo**, Paul E. Grini, and Kamran Shalchian-Tabrizi (2018). *Unicellular Origin of the Animal MicroRNA Machinery*. *Current Biology* 28(20):3288-3295.e5
 34. Xavier Grau-Bové, **Iñaki Ruiz-Trillo** and Manuel Irimia (2018). *Origin of exon skipping-rich transcriptomes in animals driven by evolution of gene architecture*. *Genome Biology* 19,135 (2018)

35. David López-Escardó, Jordi Paps, Colombar de Vargas, Ramon Massana, **Iñaki Ruiz-Trillo** & Javier del Campo (2018) Metabarcoding analysis on European coastal samples reveals new molecular metazoan diversity. *Scientific Reports volume 8, Article number: 9106 (2018)*
36. Alicia S. Arroyo, David López-Escardó, Eunsoo Kim, **Iñaki Ruiz-Trillo**, and Sebastián R. Najle (2018) Novel Diversity of Deeply Branching Holomycota and Unicellular Holozoans revealed by Metabarcoding in Middle Paraná River, Argentina. *Frontiers in Ecology and Evolution. doi: 10.3389/fevo.2018.00099*
37. Andrej Ondracka, Omayá Dudin & **Iñaki Ruiz-Trillo** (2018) Decoupling of Nuclear Division Cycles and Cell Size during the Coenocytic Growth of the Ichthyosporean *Sphaeroforma arctica* *Current Biology. https://doi.org/10.1016/j.cub.2018.04.074*
38. Helena Parra-Acero, Núria Ros-Rocher, Alberto Perez-Posada, Aleksandra Kożyczkowska, Núria Sánchez-Pons, Azusa Nakata, Hiroshi Suga, Sebastián R. Najle, **Iñaki Ruiz-Trillo** (2018). Transfection of *Capsaspora owczarzaki*, a close unicellular relative of animals *Development, 145 (9). doi: 10.1242/dev.162107*
39. Helena Četković, Maja Herak Bosnar, Drago Perina, Andreja Mikoč, Martina Deželjin, Robert Beluži, Helena Bilandžija, **Iñaki Ruiz-Trillo** & Matija Harcet (2018). Characterization of a group I Nme protein of *Capsaspora owczarzaki*—a close unicellular relative of animals. *Laboratory Investigation 1-11. doi:10.1038/labinvest.2017.134.*
40. Albert Rafels-Ybern, Adrian Gabriel Torres, Xavier Grau-Bové, **Iñaki Ruiz-Trillo** & Lluís Ribas de Pouplana. (2017). Codon adaptation to tRNAs with Inosine modification at position 34 is widespread among Eukaryotes and present in two Bacterial phyla *RNA Biology*.
41. David López-Escardó, Xavier Grau-Bové, Amy Gillaumet-Adkins, Marta Gut, Michael E. Sieracki & **Iñaki Ruiz-Trillo** (2017). Evaluation of single-cell genomics to address evolutionary questions using three SAGs of the choanoflagellate *Monosiga brevicollis*. *Scientific Reports 7. doi:10.1038/s41598-017-11466-9*
42. Maria Ferrer-Bonet & **Iñaki Ruiz-Trillo** (2017). *Capsaspora owczarzaki*. *Current Biology, Vol 27, Issue 17. http://dx.doi.org/10.1016/j.cub.2017.05.074*
43. Xavier Grau-Bové, Guifré Torruella, Stuart Donachie, Hiroshi Suga, Guy Leonard, Thomas A. Richards & **Iñaki Ruiz-Trillo**. (2017). Dynamics of genomic innovation in the unicellular ancestry of animals *eLife 2017;6:e26036*
44. David López-Escardó, Purificación López-García, David Moreira, **Iñaki Ruiz-Trillo** & Guifré Torruella. (2017). *Parvularia atlantis* gen. et sp. nov., a Nuclearioid Filose Amoeba (Holomycota, Opisthokonta). *The Journal of Eukaryotic Microbiology 2017 Jul 25. doi: 10.1111/jeu.12450. [Epub ahead of print]*
45. Arnau Sebé-Pedrós, Bernard M. Degnan & **Iñaki Ruiz-Trillo**. (2017) The origin of Metazoa: a unicellular perspective. *Nature Review Genetics*
46. Arnau Sebé-Pedrós, Marcia Ivonne Peña, Salvador Capella-Gutiérrez, Meritxell Antó, Toni Gabaldón, **Iñaki Ruiz-Trillo** & Eduard Sabidó. (2016) High-Throughput Proteomics Reveals the Unicellular Roots of Animal Phosphosignaling and Cell Differentiation. *Developmental Cell 39 (2): p186–197.*
47. Alicia S. Arroyo, David López-Escardó, Colombar de Vargas & **Iñaki Ruiz-Trillo**. (2016) Hidden diversity of Acoelomorpha revealed through metabarcoding. *Biology Letters 12: 20160674. doi.org/10.1098/rsbl.2016.0674*

48. Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo**. (2016) Evolution and Classification of the T-Box Transcription Factor Family. *Current Topics in Developmental Biology*, 122: p1-26
49. Maureen A. O'Malley, Jeremy G. Wideman & **Iñaki Ruiz-Trillo**. (2016) Losing complexity: the role of simplification in macroevolution. *Trends in Ecology and Evolution* 31(8): 608-621.
50. Sebastián R. Najle, María Celeste Molina, **Iñaki Ruiz-Trillo** & Antonio D. Uttaro. (2016) Sterol metabolism in the filasterean *Capsaspora owczarzaki* has features that resemble both fungi and animals. *Open Biology* 6: 160029.
51. Arnau Sebé-Pedrós, Cecillia Ballaré, Helena Parra-Acero, Cristina Chiva, Juan J. Tena, Eduard Sabidó, José Luis Gómez-Skarmeta, Luciano Di Croce, **Iñaki Ruiz-Trillo**. (2016) The Dynamic Regulatory Genome of *Capsaspora* and the Origin of Animal Multicellularity. *Cell* 165 (5), 1224-1237.
52. Mariona Esquerdo, Xavier Grau-Bové, Alejandro Garanto, Vasileios Toulis, Sílvia Garcia-Monclús, Erica Millo, M^a José López-Iniesta, Víctor Abad-Morales, **Iñaki Ruiz-Trillo**, Gemma Marfany. (2016) Expression atlas of the deubiquitinating enzymes in the adult mouse retina, their evolutionary diversification and phenotypic roles. *Plos One* 11 (3), e0150364
53. David A. Gold, Jonathan Grabenstatter, Alex de Mendoza, Ana Riesgo, **Iñaki Ruiz-Trillo** and Roger E. Summons. (2015) Sterol and genomic analyses validate the sponge biomarker hypothesis. *Proceedings National Academic of Sciences USA* 113 (10), 2684-2689.
54. Alex de Mendoza, Hiroshi Suga, Jon Permanyer, Manuel Irimia, **Iñaki Ruiz-Trillo**. (2015) Complex transcriptional regulation and independent evolution of fungal-like traits in a relative of animals. *eLife* 2015;10.7554/eLife.08904
55. **Iñaki Ruiz-Trillo** & Jordi Paps. (2015) Acoelomorpha: earliest-branching bilaterians or deuterostomes? *Organisms Diversity and Evolution* 16: 391. doi:10.1007/s13127-015-0239-1
56. Guifré Torruella, Alex de Mendoza, Xavier Grau-Bové, Meritxell Antó, Mark A. Chaplin, Javier del Campo, Laura Eme, Gregorio Pérez-Cordón, Christopher M. Whipps, Krista M. Nichols, Richard Paley, Andrew J. Roger, Ariadna Sitjà-Bobadilla, Stuart Donachie, and **Iñaki Ruiz-Trillo**. (2015) Phylogenomics reveals convergent evolution of lifestyles in close relatives of animals and fungi. *Current Biology* 25(18):2404-10.
57. Xavier Grau-Bové, **Iñaki Ruiz-Trillo**, & Francisco Rodríguez-Pascual. (2015) Origin and evolution of lysyl oxidases. *Scientific Reports*, 5, 10568. doi:10.1038/srep10568
58. Kamil J. Alzayady, Arnau Sebé-Pedrós, Rahul Chandrasekhar, Liwei Wang, **Iñaki Ruiz-Trillo**, David I. Yule. (2015) Tracing the Evolutionary History of Inositol, 1, 4, 5-trisphosphate receptor: Insights from Analyses of *Capsaspora owczarzaki* Ca²⁺ Release Channel Orthologs. *Molecular Biology and Evolution* 32 (9): 2236-2253. doi: 10.1093/molbev/msv098
59. Javier del Campo, Diego Mallo, Ramon Massana, Colomán de Vargas, Tom A. Richards & **Iñaki Ruiz-Trillo**. (2015) Diversity and distribution of unicellular opisthokonts along the European coast analyzed using high-throughput sequencing. *Environ Microbiol.* 17: 3195–3207.
60. Xavier Grau-Bové, Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo**. (2014) The eukaryotic ancestor had a complex ubiquitin signalling system of archaeal origin. *Molecular Biology and Evolution* 32 (3): 726-739.
61. Alex de Mendoza & **Iñaki Ruiz-Trillo**. (2014) Forward genetics for back-in-time questions. *eLife* 3:e04070. doi: 10.7554/eLife.04070

62. Javier del Campo, Michael E. Sieracki, Robert Molestina, Patrick Keeling, Ramon Massana & **Iñaki Ruiz-Trillo**. (2014) The others: our biased perspective of eukaryotic genomics. *Trends in Ecology and Evolution* 29(5): 252-259.
63. Alex de Mendoza, Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo**. (2014) The evolution of the GPCR signalling system in eukaryotes: modularity, conservation and the transition to metazoan multicellularity. *Genome Biology and Evolution* 6(3):606-19.
64. Arnau Sebé-Pedrós, Xavier Grau-Bové, Thomas A. Richards & **Iñaki Ruiz-Trillo**. (2014) Evolution and classification of myosins, a paneukaryotic whole genome approach. *Genome Biology and Evolution* 6(2):290-305.
65. Hiroshi Suga, Guifré Torruella, Gertraud Burger, Matthew W. Brown & **Iñaki Ruiz-Trillo**. (2014) Earliest holozoan expansion of phosphotyrosine signaling. *Molecular Biology and Evolution* 31 (3): 517-528. doi:10.1093/gbe/evu013
66. Bénédicte Desvoyes, Alex de Mendoza, **Iñaki Ruiz-Trillo** and Crisanto Gutierrez. (2014) Novel roles of plant RETINOBLASTOMA-RELATED (RBR) protein in cell proliferation and asymmetric cell division. *Journal of Experimental Botany* 65(10):2657-66.
67. Arnau Sebé-Pedrós, Manuel Irimia, Javier del Campo, Helena Parra-Acero, Carsten Russ, Chad Nusbaum, Benjamin J. Blencowe & **Iñaki Ruiz-Trillo**. (2013) Regulated aggregative multicellularity in a close unicellular relative of Metazoa. *eLife* 2:e01287.
68. Alex de Mendoza, Arnau Sebé-Pedrós, Martin Sebastijan Šestak, Marija Matejčić, Guifré Torruella, Tomislav Domazet-Lošo & **Iñaki Ruiz-Trillo**. (2013) Transcription factor evolution in eukaryotes and the assembly of the regulatory toolkit in multicellular lineages. *Proceedings National Academic of Sciences USA* 110(50): E4858-E4866. (*recommended by Faculty of 1000).
69. Arnau Sebé-Pedrós, Ana Ariza-Cosano, Matthew T. Weirauch, Sven Leininger, Ally Yang, Guifré Torruella, Marcin Adamski, Maja Adamska, Timothy R. Hughes, José Luis Gómez-Skarmeta & **Iñaki Ruiz-Trillo**. (2013) Early evolution of the T-box transcription factor family. *Proceedings National Academic of Sciences USA* 110(40):16050-5.
70. Arnau Sebé-Pedrós, Pawel Burkhardt, Núria Sánchez-Pons, Stephen R. Fairclough, B. Franz Lang, Nicole King & **Iñaki Ruiz-Trillo**. (2013) Insights into the origin of metazoan filopodia and microvilli. *Molecular Biology and Evolution* 30(9):2013-23.
71. Hiroshi Suga, Zehua Chen, Alex de Mendoza, Arnau Sebé-Pedrós, Matthew W. Brown, Eric Kramer, Martin Carr, Pierre Kerner, Michel Vervoort, Núria Sánchez-Pons, Guifré Torruella, Romain Derelle, Gerard Manning, B. Franz. Lang, Carsten Russ, Brian J. Haas, Andrew J. Roger, Chad Nusbaum & **Iñaki Ruiz-Trillo**. (2013) The Capsaspora genome reveals a complex unicellular prehistory of animals. *Nature Communications* 4: 2325 doi: 10.1038/ncomms3325. (*recommended by Faculty of 1000).
72. José M. Martín-Durán, Alex de Mendoza, Arnau Sebé-Pedrós, **Iñaki Ruiz-Trillo** & Andreas Hejnl. (2013) A broad genomic survey reveals multiple origins and frequent losses in the evolution of respiratory hemerythrins and hemocyanins. *Genome Biology and Evolution* 5(7):1435-42.
73. Xavier Grau-Bové, Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo**. (2013) A genomic survey of HECT ubiquitin ligases in eukaryotes reveals independent expansions of the HECT system in several lineages. *Genome Biology and Evolution* 5(5):833-47; doi: 10.1093/gbe/evt052.

74. Javier del Campo & **Iñaki Ruiz-Trillo**. (2013) Environmental survey meta-analysis reveals hidden diversity among unicellular opisthokonts. *Molecular Biology and Evolution* 30(4): 802-805; doi: [10.1093/molbev/mst006](https://doi.org/10.1093/molbev/mst006).
75. Hiroshi Suga & **Iñaki Ruiz-Trillo**. (2013) Development of ichthyosporeans sheds light on the origin of metazoan multicellularity. *Developmental Biology* 377, 284-292; doi: [10.1016/j.ydbio.2013.01.009](https://doi.org/10.1016/j.ydbio.2013.01.009).
76. Jordi Paps, Luis A. Medina-Chacón, Wyth Marshall, Hiroshi Suga & **Iñaki Ruiz-Trillo**. (2013) Molecular phylogeny of Unikonts: new insights into the position of apusomonads and ancyromonads and the internal relationships of opisthokonts. *Protist* 164(1): 2-12.
77. Kira P. Schultheiss, Hiroshi Suga, **Iñaki Ruiz-Trillo** & W. Todd Miller. (2012) Lack of Csk-mediated negative regulation in a unicellular Src kinase. *Biochemistry* 51 (41), pp 8267–8277.
78. Hiroshi Suga, Michael Dacre, Alex de Mendoza, Kamran Shalchian-Tabrizi, Gerard Manning & **Iñaki Ruiz-Trillo**. (2012) Genomic Survey of Premetazoans Shows Deep Conservation of Cytoplasmic Tyrosine Kinases and Multiple Radiations of Receptor Tyrosine Kinases. *Science Signaling* 5 (222), ra35. (*cover article)
79. Arnau Sebé-Pedrós, Yonggang Zheng, **Iñaki Ruiz-Trillo** & Duoqia Pan. (2012) Premetazoan origin of the Hippo signaling pathway. *Cell Reports* 1(1): 13-20. (chosen among the *Best of Cell Reports articles of 2012*).
80. John D. L. Shadwick & **Iñaki Ruiz-Trillo**. (2012) A genomic survey shows that the haloarchaeal type Tyrosyl-tRNA Synthetase is not a Synapomorphy of Opisthokonts. *European Journal of Protistology* 48(1):89-93.
81. Guifré Torruella, Romain Derelle, Jordi Paps, B. Franz Lang, Andrew J Roger, Kamran Shalchian-Tabrizi & **Iñaki Ruiz-Trillo**. (2012) Phylogenetic relationships within the Opisthokonta based on phylogenomic analyses of conserved single copy protein domains. *Molecular Biology and Evolution* 29(2):531-44.
82. Alex de Mendoza & **Iñaki Ruiz-Trillo**. (2011) New genomes, new taxa and deep questions in the eukaryotic tree of life: a meeting report on the EMBO comparative genomics conference. *Evodevo* 2(1):22.
83. Agatha Schlüter, **Iñaki Ruiz-Trillo** & Aurora Pujol. (2011) Phylogenomic evidence for a myxococcal contribution to the mitochondrial fatty acid beta-oxidation. *Plos ONE* 6(7): e21989. doi:[10.1371/journal.pone.0021989](https://doi.org/10.1371/journal.pone.0021989)
84. Alex de Mendoza & **Iñaki Ruiz-Trillo**. (2011) The mysterious Evolutionary Origin for the GNE gene and the root of Bilateria. *Molecular Biology and Evolution* 28(11):2987-91. Epub 2011 May 25.
85. Susan Young, Daniel Diolaiti, Maralice Conacci-Sorrell, **Iñaki Ruiz-Trillo**, Robert N. Eisenman & Nicole King. (2011) Premetazoan Ancestry of the Myc-Max network. *Molecular Biology and Evolution* 28(10):2961-71. Epub 2011 May 13.
86. Arnau Sebé-Pedrós, Alex de Mendoza, B. Franz Lang, Bernie M. Degan & **Iñaki Ruiz-Trillo**. (2011) Unexpected repertoire of metazoan transcription factors in the unicellular holozoan *Capsaspora owczarzaki*. *Molecular Biology and Evolution* 28(3): 1241-1254.

87. Maria José Barberà*, **Iñaki Ruiz-Trillo***, Julia Y. A. Tufts, Bery Amandine, Jeffrey D. Silberman & Andrew J. Roger. (2010) *Sawyeria marylandensis* (Heterolobosea) has a hydrogenosome with novel metabolic properties. *Eukaryotic Cell* 9: 1913-1924. (*co-authors)
88. Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo**. (2010) The integrin-mediated adhesion complex: cooption of signaling systems at the dawn of Metazoa. *Communicative & Integrative Biology* 3:5, 1-3.
89. Arnau Sebé-Pedrós, Andrew J. Roger, Franz B. Lang, Nicole King & **Iñaki Ruiz-Trillo**. (2010) Ancient origin of the integrin-mediated adhesion and signaling machinery. *Proc. Natl. Acad. Sci. USA* 107(22)*: 10142-7. (*cover article)
90. Alex de Mendoza, Hiroshi Suga & **Iñaki Ruiz-Trillo**. (2010) Evolution of the MAGUK protein gene family in premetazoan lineages. *BMC Evolutionary Biology* 10(1): 93.
91. Guifré Torruella, Hiroshi Suga, Marta Riutort, Juli Peretó & **Iñaki Ruiz-Trillo**. (2009) The evolutionary history of lysine biosynthesis pathways within eukaryotes. *Journal of Molecular Evolution* 69(3): 240-248.
92. **Iñaki Ruiz-Trillo**, Andrew J. Roger, Gertraud Burger, Michael W. Gray & B. Franz Lang. (2008) A phylogenomic investigation into the origin of Metazoa. *Molecular Biology and Evolution* 25 (4): 664-672. Epub 2008 Jan 9.
93. E. Baptiste, E. Susko, J. Leigh, **I. Ruiz-Trillo**, J. Bucknam & W. F. Doolittle. (2008) Alternative Methods for Concatenation of Core Genes Indicate a Lack of Resolution in Deep Nodes of the Prokaryotic Phylogeny. *Molecular Biology and Evolution* 25(1): 83-91. Epub 2007 Oct 16.
94. **Iñaki Ruiz-Trillo**, Gertraud Burger, Peter W. H. Holland, Nicole King, B. Franz Lang, Andrew J. Roger & Michael W. Gray. (2007) The origins of multicellularity: a multi-taxon genome initiative. *Trends in Genetics* 23(3): 113-118.
95. **Iñaki Ruiz-Trillo**, Christopher E. Lane, John M. Archibald & Andrew J. Roger. (2006) Insights into the evolutionary origin and genome architecture of the unicellular opisthokonts *Capsaspora owczarzaki* and *Sphaeroforma arctica*. *Journal of Eukaryotic Microbiology* 53(5): 1-6.
96. Sina M. Adl, **Iñaki Ruiz-Trillo** and Melanie L. Wilson. (2006) Observations on a *Geocentrophora* sp. (Lecitopitheliata) flatworm from forest soils in Nova Scotia. *Journal of Natural History* 40 (23-24): 1381-1387.
97. **Iñaki Ruiz-Trillo**, Yuji Inagaki, Lesley A. Davis, Sigmund Sperstad, Bjarne Landfald & Andrew J. Roger. (2004) *Capsaspora owczarzaki* is an independent opisthokont lineage. *Current Biology* 14: R946-R947.
98. **Iñaki Ruiz-Trillo**, Marta Riutort, H. Matthew Fourcade, Jaume Baguña & Jeffrey L. Boore. (2004) Mitochondrial genome data support the basal position of Acoelomorpha and the polyphyly of the Platyhelminthes. *Molecular Phylogenetics and Evolution* 33: 321- 332, 2004.
99. **Iñaki Ruiz-Trillo**, Jordi Paps, Mercè Loukota, Carles Ribera, Ulf Jondelius, Jaume Baguña & Marta Riutort. (2002) A phylogenetic analysis of Myosin Heavy Chain type II sequences corroborates Acoela and Nemertodermatida are basal bilaterians. *Proc. Natl. Acad. Sci. USA* 99: 11246-11251.
100. Ulf Jondelius, **Iñaki Ruiz-Trillo**, Jaume Baguña & Marta Riutort. (2002). The Nemertodermatida are basal bilaterians and not members of the Platyhelminthes. *Zoologica Scripta* 31: 201-215.

101. Jaume Baguñà, **Iñaki Ruiz-Trillo**, Jordi Paps, Mercè Loukota, Carles Ribera, Ulf Jondelius & Marta Riutort. (2001) The first bilaterian organisms: simple or complex? New molecular evidence. *International Journal of Developmental Biology* 45: S133-S134.
102. **Iñaki Ruiz-Trillo**, Marta Riutort, D. Timothy J. Littlewood, Elisabeth A. Herniou & Jaume Baguñà. (1999) Acoel flatworms: earliest extant bilaterian metazoans, not members of the Platyhelminthes. *Science* 283*: 1919-1923. (*cover article)
103. Salvador Carranza, **Iñaki Ruiz-Trillo**, D. Timothy J. Littlewood, Marta Riutort & Jaume Baguñà. (1998) A reappraisal of the phylogenetic and taxonomic position of land planarians (Platyhelminthes, Turbellaria, Tricladida) inferred from 18S rDNA sequences. *Pedobiologia* 42: 433-440.
104. Salvador Carranza, D. T. J Littlewood, K. A. Clough, **Iñaki Ruiz-Trillo**, Jaume Baguñà & Marta Riutort. (1998) A robust molecular phylogeny of the Tricladida (Platyhelminthes, Seriata) and a reassessment of morphological synapomorphies. *Proc. R Soc. Lon. B* 265: 631-640.

Books

-**Iñaki Ruiz-Trillo** & Aurora Nedelcu (editors). (2015) *Evolutionary transitions to multicellular life: principles and mechanisms*. Advances in Marine Genomics Series. Springer.

Book Chapters

-Aleksandra Kozyczkowska, **Iñaki Ruiz-Trillo**, Elena Casacuberta (2022)

Unicellular Relatives of Animals.

In "Handbook of Marine Model Organisms in Experimental Biology. Established and emerging". Agnès Boutet, Bernd Schierwater.

CRC Press

-Michelle M. Leger & **Iñaki Ruiz-Trillo** (2021)

Phylogenetics of clonal multicellularity. Mathew D. Herron, Peter L. Conlin, William C. Ratcliff
In "The Evolution of Multicellularity"

CRC Press

-Michelle M. Leger & **Iñaki Ruiz-Trillo** (2021)

The Closest Unicellular Relative of Animals. Bernd Schierwater, Rob DeSalle

In "Invertebrate Zoology. A Tree of Life Approach"

CRC Press. <https://doi.org/10.1201/9780429159053>

-Sebastián R. Najle & **Iñaki Ruiz-Trillo** (2021)

The Protistan Origins of Animal Cell Differentiation.

In "Origin and Evolution of Metazoan Cell" Leys & Hejnol

CRC Press; Evolutionary Cell Biology Series

-Vidyanand Nanjundiah, **Iñaki Ruiz-Trillo**, and David Kirk (2018) Protists and Multiple Routes to the Evolution of Multicellularity. in Brian K. Hall, Sally A. Moody "Cells in Evolutionary Biology: Translating Genotypes into Phenotypes – Past, Present, Future" CRC Press; Evolutionary Cell Biology Series

- Iñaki Ruiz-Trillo** (2016) *What are the genomes of the premetazoan lineages telling us about the origins of metazoa?* In “Multicellularity: Origins and Evolution” ISBN: 9780262034159
- Naiara Rodríguez-Ezpeleta, David Moreira & **Iñaki Ruiz-Trillo** (2014) *The Former “Protists”. Amoebozoa, Rhizaria, Excavata, Haptophyta, Cryptophyta, Heterokonta, and Alveolata*. In “The Tree of Life”, Zardoya R. & Vargas P. eds. Sinauer Associates.
- Guifré Torruella, David Moreira & **Iñaki Ruiz-Trillo** (2014) *The Domain Eucarya. The Rise of Organisms with Nucleated Cells*. In “The Tree of Life”, Zardoya R. & Vargas P. eds. Sinauer Associates.
- Marta Riutort, Jordi Paps, **Iñaki Ruiz-Trillo** (2014) *Bilaterians. The Evolutionary Advantage of Being Two-Sided*. In “The Tree of Life”, Zardoya R. & Vargas P. eds. Sinauer Associates.
- Naiara Rodríguez-Ezpeleta, David Moreira, **Iñaki Ruiz-Trillo** (2012) *Amoebozoos, Cromalveolados, Rizarios y Excavados*. In “El árbol de la vida: sistemática y evolución de los seres vivos”, Zardoya R. & Vargas P. eds.
- Iñaki Ruiz-Trillo** (2012) *Eucariotas*. In “El árbol de la vida: sistemática y evolución de los seres vivos”, Zardoya R. & Vargas P. eds.
- Marta Riutort, Jordi Paps, **Iñaki Ruiz-Trillo** (2012) *Bilaterales*. In “El árbol de la vida: sistemática y evolución de los seres vivos”, Zardoya R. & Vargas P. eds.
- Iñaki Ruiz-Trillo** (2010) *Animales y sus ancestros unicelulares. Una visión filogenómica*. In “Adaptación y Evolución. 150 años después del Origen de las Especies SESBE 2009”. Dopazo. & Navarro. eds, Obrapropia Editorial, Valencia.
- Maria J. Barberà, **Iñaki Ruiz-Trillo**, Jessica Leigh, Laura A. Hug & Andrew J. Roger. (2007) *The diversity of mitochondrion-related organelles amongst eukaryotic microbes*. In “Origins of Mitochondria and Hydrogenosomes”, Martin W. ed., Springer, Heidelberg.
- Jaume Baguña, **Iñaki Ruiz-Trillo**, Jordi Paps & Marta Riutort. (2002) *Origen y evolución de los ejes corporales y la simetría bilateral en animales*. In “Evolución: la base de la Biología” (M.Soler ed.), Proyecto Sur Editorial.
- Iñaki Ruiz-Trillo**. (2001) *Acoela*. In “McGraw-Hill Encyclopedia of Science and Technology, 2001 Yearbook of Science & Technology”. McGraw-Hill, New York.
- J. Baguña, S. Carranza, J. Paps, **I. Ruiz-Trillo** & M. Riutort. (2000) *Molecular taxonomy and phylogeny of Tricladida*. In “Interrelationships of the Platyhelminthes”, Littlewood & Bray Ed., Taylor & Francis, London.

Non-SCI publications

- Iñaki Ruiz-Trillo** y Maria Ferrer-Bonet (2018). ¿Con quién compartimos el planeta? *Investigación y Ciencia*. Diciembre 2018
- Hiroshi Suga & **Iñaki Ruiz-Trillo** (2015) “Unraveling the origin of animal multicellularity” (in Japanese) *Jikken Igaku* (Experimental Medicine) vol.33, no.6, pp968-973.
- Alex de Mendoza, Arnau Sebé-Pedrós & **Iñaki Ruiz-Trillo** (2013) El origen de la multicelularidad. *Investigación y Ciencia*, Febrero 2013 pp.32-39.
- Jordi Paps, & **Iñaki Ruiz-Trillo** (2010) Animals and their unicellular ancestors. *Encyclopedia of Life Sciences* 2010, John Wiley & Sons, Ltd: Chichester <http://www.els.net/> [DOI: 10.1002/9780470015902.a0022853]
- Iñaki Ruiz-Trillo**. (2002) *L'origen dels animals bilaterals*. *El temps* 928: 56-59.
- Jaume Baguñà, **Iñaki Ruiz-Trillo** & Marta Riutort. (1999) *Simetria bilateral*. *Investigación y Ciencia* June: 30-32.

Honours/Awards

- 1999 *CIRIT-Generalitat de Catalunya (Catalan Government) Award*, to travel and work at Dept. of Biological Sciences, University of Arkansas.
- 1999 *University of Barcelona Graduate Student Award* (“Becari the investigació i recerca U.B.”)
- 2001 *University of Barcelona travel bursary* to travel and work at US DOE Joint Genome Institute.
- 2002 “*Joan Lluís Vives*” *Scientific Communication Prize*, Organized by “Xarxa d’Universitats Institut Joan Lluís Vives”, Universitat de Girona, Spain .
- 2003 *Postdoctoral Fellowship, Ministerio de Educación, Cultura y Deporte (Spanish Government)* (EX2003-0461). Renounced in favour of EMBO fellowship.
- 2003 *CIHR Fellowship, Canadian Institutes of Health Research* (200304MFE-119623-135733). Renounced in favour of EMBO fellowship.
- 2003 *EMBO (European Molecular Biology) Long-term Postdoctoral Fellowship (ALTF 230-2003)*.
- 2004 *University of Barcelona” Extraordinary” PhD Prize*, Universitat de Barcelona, Spain.
- 2004 *Accesit to Claustre de Doctors PhD Prize*, Universitat de Barcelona, Spain.
- 2006 *CIHR (Canadian Institutes of Health Research) Postdoctoral Fellowship*. (200502MFE-143033-135733).
- 2006 *Programa Ramón y Cajal*. Renounced in favor of Icrea Junior.
- 2006 *Icrea Researcher Contract*.
- 2007 *Icrea Conference Awards* (2007); funding (25,000 euros) to organize (as a coordinator) an international conference on the "Origin of Animals" during the year 2008.
- 2008 *ERC Starting Grant* (ERC-2007-Stg-206883).
- 2011 *Icrea Research Professor*.
- 2012 *Icrea Conference Awards* (2012); funding (18,000 euros) to organize (as a coordinator) an international conference on the "Origin of Multicellularity" in 2013.

- 2013 Resident faculty of the The Kavli Institute for Theoretical Physics at the University of California Santa Barbara. February 2013; “[Cooperation and the Evolution of Multicellularity](http://www.kitp.ucsb.edu/activities/dbdetails?acro=multicell13)” program (<http://www.kitp.ucsb.edu/activities/dbdetails?acro=multicell13>)
- 2014 ERC Consolidator Grant (ERCCo-PREMETAZOANEVOLUTION-616960).
- 2016 F1000 Prime Faculty Member (<http://f1000.com/prime/thefaculty/member/499999771097525235>)
- 2017 Elected *EMBO member*.

Manuscript and project reviewer

Member of the Editorial Board of the journals *EvoDevo* (2011-), *Biology Letters* (2012-2019), *Scientific Reports* (2015-2016) and *Molecular Biology and Evolution* (2016-2019).

Reviewer of *Science*, *Nature*, *eLife*, *Plos Biology*, *Science Signaling*, *Nature Communications*, *Current Biology*, *Proceedings National Academic of Sciences USA*, *Molecular Biology and Evolution*, *Proceedings Royal Society*, *Plos Computational Biology*, *Genome Biology and Evolution*, *Eukaryotic Cell*, etc..

Reviewer of Advanced Grants for the European Research Council (ERC) (2010, 2014, 2016, 2017, 2018; 2021; 2022; 2023; 2024); grants for the Spanish Agencia Nacional de Evaluación y Prospectiva (ANEP) (2010, 2015, 2016, 2017, 2018; 2024); US SDE/GWIS Fellowships (2012), National Science Foundation (2014, 2015; 2024), Canada NSERC discovery grants (2016), and the Austrian Science Funds (2018), France ANR (2021), EMBO postdoctoral fellowships (2021; 2023; 2024).

Teaching experience

I have accumulated almost a thousand hours of teaching experience to undergraduate and graduate students. From 1999 to 2003, I was also involved in the training of new lab instructors.

- 1996-1999 **Lab Instructor**. Departament de Genètica, Universitat de Barcelona. 240 hours/year. Subjects: “Genetics and Molecular Biology of Development”; “Origin of life and Evolution”; and “Molecular Genetics”
- 1999-2003 **U.B Graduate Student Fellow; lab instructor**. Dept. Genètica, Universitat de Barcelona. 120 hours/year. Subjects: “Genetics”; and “Molecular Genetics”
- 2007-2011 **Teacher** of the Postgraduate Course "*DNA Phylogenies and Genealogies: Reconstruction and Applications*"; from the Universitat de Barcelona.
- 2008-2013 **Teacher** of the Master in Developmental Biology and Genetics from the Universitat de Barcelona (around 15 hours/year).
- 2007-on-going. **Teacher** on the “**Master de Biodiversitat**”, Universitat de Barcelona.

Invited Presentations

- 7/02/2003 Seminarios del Museo Nacional de Historia Natural del CSIC, Madrid. Title: “*El por qué de derecha e izquierda. Una aproximación molecular al origen de la simetría bilateral en el Reino Animal*”.
- 10/12/2007 Unitat de Biologia Evolutiva Programme Seminars, Universitat Pompeu Fabra, PRBB Barcelona. Title: “*The origin of metazoan multicellularity: a comparative genomics approach*”.

- 30/5/2008 Seminarios del Institut Cavanilles de Biodiversitat i Biologia Evolutiva sobre complejidad y evolución, Institut Cavanilles de Biodiversitat i Biologia Evolutiva. Title: “*El origen de la multicelularidad en metazoos: una aproximación genómica*”.
- 3/9/ 2008 Cell and Developmental Programme Seminars. Institut de Recerca en Biomedicina de Barcelona (IRB), Barcelona. Title: “*The origin of metazoan multicellularity: a comparative genomics approach*”.
- 12/01/ 2009 Workshop on Molecular Systematics of Amoebozoa and Rhizaria. Université de Genève, Switzerland. Title: “*Unicellular relatives of Metazoa: a phylogenomic investigation*”.
- 29/06/ 2009 Biological Colloquium. Technische Universität Kaiserslautern, Kaiserslautern, Germany. Title: “*The unicellular to multicellular transition, a comparative genomics approach*”
- 5-8/12/2010 "The Evolution of Cooperation: Paradoxes of Collectivity & Individuality" Workshop. Biocomplexity Institute, Indiana University, USA. Title: “*‘multicellular genes’ in unicellular lineages*”.
- 31/03/2011 Centro Andaluz de Biología del Desarrollo (CABD), Sevilla, Spain. Title: “*‘multicellular genes’ in unicellular lineages*”.
- 5-7/9/2011 UK's Society for General Microbiology conference. York, UK. Title: “*‘multicellular genes’ in unicellular lineages*”.
- 15-20/10/ 2011 EMBO Conference “Comparative genomics of eukaryotic microorganisms: understanding the complexity of diversity”, Sant Feliu de Guíxols, Spain. Title: “*The genome of *Capsaspora owczarzaki* and the origin of multicellular animals*”
- 9/03/2012 Sars seminars. Sars International Centre for Marine Molecular Biology, Bergen, Norway. Title: “*The origin of metazoans from the perspective of their unicellular relatives*”
- 14/06/2012 CRG Postdoc Symposium, Barcelona. Title: “*The origin of Metazoa: unicells take the lead*”
- 10-13/07/2012 4th meeting of the European Society for Evolutionary Developmental Biology, Lisbon, Portugal. Title: “*The origin of Metazoa: unicells take the lead*”
- 28-30/08/2012 Plenary lecture on the “UK Next Generation Sequencing Meeting 2012”. University of Nottingham, Nottingham, UK. Title: “*The origin of Metazoa: unicells take the lead*”
- 14-17/05/2013 2013 annual meeting of Canadian Institute For Advanced Research Integrated Microbial Biodiversity (IMB) Program. Whistler (BC), Canada. Title: “*Transcriptome remodelling in *Capsaspora owczarzaki* illuminates the origin of Metazoa*”
- 19-24/10/2013 EMBO Conference “Comparative genomics of eukaryotic microorganisms: understanding the complexity of diversity”, Sant Feliu de Guíxols, Spain. Title: “*Transcriptome remodelling in *Capsaspora owczarzaki* illuminates the origin of Metazoa*”.

- 13/12/2013 Universidad de Sevilla, master of genetics, Sevilla, Spain. Title: “*The origin of metazoans: a genomics approach*”.
- 16-19/03/2014 Invited speaker at the Joint meeting of the British Societies for Cell Biology and Developmental Biology. Warwick, UK. Spain. Title: “*Unicellular lineages to understand the origin of metazoan multicellularity: a genomics and cell biology perspective*” (<http://www.bsdb-meetings.co.uk/draftprogramme.pdf>)
- 2/04/2014 Institute for Research in Biomedicine, Barcelona, Spain. Title: “*How metazoan multicellularity emerged? A genomics and cell biology perspective*”. (<http://www.irbbarcelona.org/index.php/en/events/barcelona-bioseminars/past/how-metazoan-multicellularity-emerged-a-genomics-and-cell-biology-perspective>)
- 3/05/2014 Instituto de Biomedicina de Valencia, Valencia, Spain. Title: “*Unicellular lineages to understand the origin of metazoan multicellularity: a genomics and cell biology perspective*”.
- 12/05/2014 University of Vienna. COBD seminars. Title: “*Unicellular lineages to understand the origin of metazoan multicellularity: a genomics and cell biology perspective*”.
- 13/06/2014 Seminarios del Museo Nacional de Historia Natural del CSIC, Madrid. Title: “*How animals emerged? A new perspective based on genomic data*”.
- 3-10/08/2014 Invited speaker at the Joint ISEP/ISOP meeting. Banff, Canada. Title: “*How animals emerged: a genomics and cell biology perspective*”
- 25-28/09/2014 Invited speaker at the 31st Altenberg Workshop “The Origins and Consequences of Multicellularity” Konrad Lorenz Institute for Evolution and Cognition Research (KLI); Klosterneuburg, Austria. Title: “*The origin of metazoan multicellularity: a genomics and cell biology perspective*”
- 13-15/10/2014 Invited speaker at the X meeting Spanish Society of Developmental Biology; Madrid, Spain. Title: “*How animals emerged?: a genomics and cell biology perspective*”
- 24/10/2014 Invited speaker at the “external seminars of the Developmental Biology unit”; Zoological Station of Villefranche sur mer(Paris VI) ;Villefranche sur mer, France. Title: “*How animals emerged?: a genomics and cell biology perspective*”
- 16-17/12/2014 Invited speaker at the Second joint CNRS-CSIC workshop « Frontiers in evolutionary genomics »; Gif-sur-Yvette, CNRS Campus; France. Title: “*the genomic foundations of animal multicellularity*”
- 16/01/2015 Seminaris del Centre for Research in Agricultural Genomics (CRAG), Bellaterra. Title: “*The origin of multicellular animals: a genomics and cell biology perspective*”
- 12/02/2015 Darwin Day seminar at Universitat de Valencia; Title: “*L’origen de la multicel·lularitat*” <http://blog.octubre.cat/dia-de-darwin-2015>
- 23-25/03/2015 Invited speaker at the conference “*Meeting on the Major Transitions in Evolution*”; México City, México. Title: “*How metazoan multicellularity emerged? a genomics and cell biology perspective*”. <http://www.lcg.unam.mx/MMTE2015/>

- 27/03/2015 Invited speaker at the “*Darwin Exposition*”; Centro Cultural El Amate; Parque Ecológico Barranco de Chapultepec, Cuernavaca, México.
- 15-17/04/2015 Plenary speaker at the *2015 British Society For Protist Biology conference*; University of Huddersfield, UK. Title: Title: “*what protists are telling us about the origin of metazoan multicellularity*”
- 7/07/2015 Invited speaker at the 2015 ISHPSSB conference, Université de Montréal, Canada. Title: “*The origin of Metazoa, a genomics and cell biology approach...or why things are never ever so simple.*”
- 14-15/10/2015 Invited speaker at the spongex meeting “the origin of metazoans”, Université de Marseille, France. Title: “*The origin of multicellular animals: a perspective from their unicellular relatives*”.
- 17-22/10/2015 Invited speaker at the EMBO conference “*Exploring the genomic complexity and diversity of eukaryotes*” Sant Feliu de Guíxols, Spain.. Title: “*A new phylogenetic framework of the Opisthokonts: hidden diversity, morphological disparity and convergence evolution*”.
- 23/10/2015 Invited speaker at the XII Jornada d’Avenços en Ecologia. Centre d’Estudis Avançats de Blanes, Blanes, Spain. Title: “*L’origen dels animals; o el perquè noves dades genòmiques i cel·lulars fan trontollar l’explosió del Cambrià*”.
- 13/11/2015 Invited speaker at the Seminars of the Department of Genetics, University of Cambridge, UK. Title: “*The origin of Metazoa, a genomics and cell biology approach... or why things are never ever so simple*”.
- 27/11/2015 Invited speaker at the Seminars Program of the Centro de Investigaciones Biológicas, Madrid, Spain. Title: “*The origin of multicellular animals seen through the genomes of their unicellular relatives*”.
- 26-29/07/2016 Invited speaker at the Euro Evo-Devo conference. Title: “*Identifying the triggers of animal origins: what protists are telling us*”; Uppsala, Sweden.
- 16/12/2016 Invited speaker at the Biomed Seminar of the Institute of Biomedical Research, Barcelona, Spain.
- 8/6/2017 Invited speaker at the Dept. of Systematic Biology, Uppsala University, Sweden.
- 15/6/2017 Invited speaker at the “Innovations in Biology” conference. Title: “*How unicellular protists evolved into multicellular animals? A genomic and cell biological approach*”. University of Lausanne, Switzerland.
- 1-4/8/2017 Plenary lecture at the “15th International Congress of Protistology” conference. Title: “*How did animals evolve? don't ask animals, ask protists!*”. Prague, Czech Republic.
- 15/10/2017 Invited speaker at the EMBO conference in eukaryotic microorganisms; Sant Feliu de Guíxols, Girona, Spain. Title: “*How did animals evolve? A genomic and cell biological approach*”
- 18-20/10/2017 Invited speaker at the “EMBO membership conference”; Heidelberg, Germany.

- 7-8/11/2017 Invited speaker at the “Origins of Metazoans” meeting. Title: “*How did animals evolve? a view from our closest unicellular relatives*”. Paris, France.
- 10-13/4/2018 Invited speaker at the UK Microbiology Society. Title: “*Why new experimentally tractable organisms from key taxa will provide important insights into eukaryotic biology.*”; Birmingham, UK.
- 12-15/6/2018 Invited speaker at the CIFAR Integrated Microbial Biodiversity Program Meeting. Title: “*From protists to multicellular animals: what we know and what we do not know*”; Banff, Alberta, Canada.
- 10-11/12/2018 Invited speaker at the Royal Society Hooke Symposium 'Single Cell Ecology' . Title: “*Are single-cell approaches useful for evolutionary questions?*”.
- 21/2/2019 Invited speaker at the Institutional seminar series at the Synthetic and Systems Biology Unit of the BRC, in Szeged, Hungary.
- 20/3/2019 Invited speaker at the seminar series “Mittwochs-Kolloquium” of the Max Planck Institute (MPI) for Developmental Biology and the Friedrich Miescher Laboratory (FML) in Tübingen, Germany. Title:
- 15-18/5/2019 Invited speaker at the 1st EMBO | EMBL Symposium on the “Identity and Evolution of Cell Types”, EMBL Campus in Heidelberg, Germany. Title: “Cell types and mechanisms of cell differentiation in unicellular relatives of animals”.
- 14-19/10/2019 Invited speaker at the EMBO workshop “*Comparative genomics of eukaryotic microbes: genomes in flux, and flux between genomes*”. Sant Feliu de Guíxols, Spain. Title: “Cell types and mechanisms of cell differentiation in unicellular relatives of animals”.
- 6/11/2019 Invited speaker at the XXXI Jornada Biologia del desenvolupament, Societat Catalana de Biologia. Institut d’Estudis Catalans, Barcelona. Title: “The power of unicellular relatives of animals: a new perspective into the origin of Metazoa”.
- 15/11/2019 Invited speaker at the Centro Nacional de Biotecnología, CSIC, Madrid. Title: “The power of unicellular relatives of animals: a new perspective into the origin of Metazoa”.
- 20/12/2019 Invited speaker at the Institut of Molecular Biology of Barcelona, CSIC. Title: “The power of unicellular relatives of animals: a new perspective into the origin of Metazoa”.
- 13/02/2020 Invited speaker at Universidad de Murcia. Title: “Origen de animales: una nueva visión basada en sus parientes unicelulares”.
- 05/05/2020 Keynote speaker at Protist Online ESO meeting. Title: “Unicellular relatives of animals: the “mexicans” of the tree of life”.
- 02/09/2020 Invited speaker at Crick’s Development and Stem Cell programme, The Francis Crick Institute, UK. Title: “The power of unicellular relatives of animals: a new perspective into the origin of Metazoa.”.
- 29/10/2020 Invited speaker at Department of Organismic and Evolutionary Biology, Harvard University, USA. Title: “The power of unicellular relatives of animals: a new perspective into the origin of Metazoa”.

- 5/11/2020 Invited speaker at “Evolución en pandemia. Ciclo de charlas de la Universidad de Comahue, Argentina”
- 14/09/2021 Keynote speaker at the “Hydra meeting” (online)
- 19/10/2021 Keynote speaker at “Janelia workshop on “Evolution of Multicellularity” (online)
- 22/10/2021 Invited speaker at EMBO Young Scientists’ Forum, Poland (online).
- 21/04/2022 Invited speaker at “*Evolutionary and Aquatic Ecology Departmental Seminars*”, Lund University, Sweden. Title: “A new perspective into the origin of Metazoa”.
- 03/04/2023 Invited speaker at Laboratory of Microbiology at Wageningen University, Netherlands. Title: “Leave elegance to the tailor; the truth about the microbial origin of animals”.
- 04/04/2023 Keynote speaker at the symposium “Microbes as models for complex biology”. Scientific Spring Meeting KNVM & NVMM 2023; Papendal, Arhem, Netherlands. Title: “The origin of animals: a unicellular perspective”.
- 05/04/2023 Invited speaker at the University of Utrecht, Netherlands. Title: “Forget about simple answers; the truth about the microbial origin of animals”.
- 04/09/2023 Invited speaker at Frontiers in Genomics. Online, National University of Mexico (UNAM), Mexico. Title: “The origin of animals.”
- 17/09/2023 Invited speaker at “Unconventional and Emerging Experimental Organisms in Cell and Developmental Biology” Wotton House, Surrey, UK, 17 – 20. Title: “Cells, genes, and the unpredictability of animal origins”.
- 09/11/2023 Invited speaker at “Genes, cells and embryos in development and evolution: Pere Alberch 25 years on”; PRBB; 9-10 November. Title: “Taming the Monstrous: How Animals Brought Order to Evolution's Wild Side.”
- 11/01/2024 Invited speaker at CRAG Genómica. Title: “Exploring a Major Evolutionary Event: A Few Accomplishments, a Lot of Challenges, and the Discovery of a Beautiful, Previously Unknown World”
- 28/05/2024 Invited speaker at ETH Zurich. Title: “A Mission to Unravel the Magnificent 8: eight missing relatives of animals crucial to understand their origin”
- 04/06/2024 Invited speaker at Kinetic and Macroscopic Models in Biology with Friends, Facultat de Matemàtiques, UB, Barcelona Title: “Phenotypic plasticity at the unicellular-to-multicellular transition. The truth about animal origins.”
- 25/09/2024 Invited speaker at Comparative Genomics of Unicellular Eukaryotes, Sant Feliu de Guíxols, Spain. Title: “The truth about animal origins”.
- 10/10/2024 Invited speaker at Sessió Inaugural de la Societat Catalana d’Al·lèrgia i Immunologia Clínica, Barcelona. Title: “L’origen de la multicel·lularitat animal i les implicacions biomèdiques”.

Management

- Coordinator and organizer of the conference “*ICREA conference on the Origin and Early Evolution of Metazoans*”, PRBB, Barcelona, 24 and 25th October 2008.
- Coordinator of the “*XIII Jornada de Biologia Evolutiva*”, Institut Estudis Catalans, Barcelona, 2nd July 2013.
- Coordinator and organizer of the conference “*ICREA conference on the evolution of multicellularity*”, PRBB, Barcelona, 30 September, 1 October 2013 (<http://www.multicellularity2013.com>)
- Co-editor of the book “*Evolutionary transitions to multicellular life: Principles and mechanisms*” published by Springer in 2015.
- Founder and member of the *Committee of Diversity* at the Institut de Biologia Evolutiva (2015-2019).
- Vice-director of the Institut de Biologia Evolutiva. 2017.
- Co-organizer of the “*Women in Evolution Day*”, to increase gender bias awareness. Institute of Evolutionary Biology and PRBB. 29th May 2017.
- Co-organizer of the EMBO workshop “*Comparative genomics of eukaryotic microbes: genomes in flux, and flux between genomes*”. Sant Feliu de Guíxols, Spain. 14-19 October 2019.

Current lab members (as April 2023).

- Michelle Leger postdoc, Juan de la Cierva fellow
- Koryu Kin, postdoc; Junior Leader La Caixa
- Victoria Shabardina, postdoc
- Marta Álvarez, postdoc, ComFuturo fellowship.
- Meritxell Antó, lab technician
- Patricia Suárez, PhD student *FPI fellowship*
- Gonzalo Berceño, PhD student *FPI fellowship*
- Fernando Bascón, PhD student *FPU fellowship*

Direction of master students

- màster in “Developmental Biology and Genetics” or “Genetics and genomics”, Universitat de Barcelona.
- 09/2009. Arnau Sebé Pedrós. Title: “*Origin and evolution of the integrin adhesome and T-box genes*”.
 - 09/2010. Alex de Mendoza. Title: “*The genome of Capsaspora owczarzaki. Signaling transduction pathways and transcription factors*”. Awarded with the “*Extraordinary Prize of UB Master on Developmental Biology and Genetics*”
 - 09/2010. Guifré Torruella. Title: “*Phylogenomics of opisthokonts based on protein domains*”.
 - 10/2010. Luis A. Medina-Chacón. Title: “*Phylogeny of opisthokonts*”.
 - 09/2012. Xavier Grau-Bové. Title: “*Evolution and diversity of HECT ubiquitin ligases in eukaryotes*”. Awarded with the “*Extraordinary Prize of UB Master on Developmental Biology and Genetics*” .
 - 13/09/2013. David López-Escardó. Title: “*Metabarcoding analysis of Metazoan diversity in European marine habitats*”.
 - 06/09/2016. Alberto Pérez Posada. Title: “*Development of genetic tools in the unicellular holozoan Capsaspora owczarzaki*”.
 - 06/09/2016. Xavier Florenza. Title: “*Insights into the role of integrins in Capsaspora owczarzaki aggregation*”.
 - 06/09/2019. Aleix Antón. Title: “*Unravelling the cell biology of the closest relatives of animals*”. (co-supervised with Elena Casacuberta).

- 24/09/2021. Àlex Gálvez. Title: “*Methodological study for ancestral reconstruction*”. (co-supervised with Dan Richter).
- 24/09/2021. Paula Crespo. Title: “*Evolution of oxygen-sensing mechanisms in the closest relatives of animals*”. (co-supervised with Koryu Kin).
- September 2022. Fernando José Bascón. Title: “Unravelling the cell biology of the closest relatives of animals” (co-supervised with Elena Casacuberta).

màster in “Advanced Genetics”, Universitat Autònoma de Barcelona.

- 17/07/2014. Lourdes Riquelme. Title: “*bZIP transcription factor evolution and the origin of metazoans*”.
- July 2020. Pedro Charría. Title: “*Evolutionary history of the p38 kinases and related stress response*”. (co-supervised with Victoria Shabardina).
- July 2021. Gonzalo Bercedo. Title: “*Cellular stress response to NaCl and H₂O₂ in *Capsaspora owczarzaki* reflects evolutionary history of stress kinases in opisthokonts*”.(co-supervised with Victoria Shabardina).

màster in “Molecular Biotechnology”, Universitat de Barcelona

- 25/7/2019. Dani Caravaca. Title: “*Nuevas aproximaciones al ciclo de vida de *Corallochytrium limacisporum* y *Abeoforma whisleri**” (so-supervised with Elena Casacuberta).

màster in “Biodiversity”, Universitat de Barcelona

- 14/9/2021. Arnau Galan. Title: “*The origins of the core Hippo pathway in non-metazoans*” (so-supervised with Michelle Leger).
- 19/9/2024. Alicia Jiménez. Title: “*Unraveling the phylogeny and environmental distribution of Known Unknown Opisthokonta*” (so-supervised with Jennah Dharamshi and Cédric Berney).

Direction of PhD students

- 7 July 2013, Arnau Sebé Pedrós. Title: “*The origin of metazoan multicellularity, a genomic and functional approach*”. Awarded with the 2012-213 University of Barcelona PhD Extraordinary Prize. Awarded with “accessit” to the XIX Claustre de Doctors Awards to the best PhD in the UB 2012-2013.
- 15 January 2014, Alex de Mendoza. Title: “*Comparative Genomics at the Origin of Metazoa*”. Awarded with the 2013-214 University of Barcelona PhD Extraordinary Prize.
- 19 December 2014, Guifré Torruella. Title: “*Phylogeny and evolutionary perspective of Opisthokonta protists*”. University of Barcelona.
- 7 July 2017, Xavier Grau-Bové. Title: “*The origin of multicellularity in animals: a genomics approach*”. University of Barcelona. Awarded with the 2016-217 University of Barcelona PhD Extraordinary Prize.
- 15 January 2018, David López-Escardó. Title: “*Unveiling new molecular Opisthokonta diversity: A perspective from evolutionary genomics*”. University of Pompeu Fabra.
- 8 February 2019, Helena Parra-Acero. Title: “*Capsaspora owczarzaki as a unicellular model to study the pre-metazoan integrin adhesome*”. University of Barcelona.

- 15 February 2019, Núria Ros-Rocher. Title: “*The origin of multicellularity in animals: a functional approach from a unicellular perspective*”. University of Pompeu Fabra.
- 2 July 2019, Alicia S. Arroyo. Title: “*Metabarcoding of the 18S rRNA gene to uncover new molecular biodiversity in Metazoa and unicellular Opisthokonta*”. University of Pompeu Fabra.
- 16 December 2019. Alberto Pérez-Posada. Title: “*Development of model systems to reconstruct the unicellular prehistory of animals, an emphasis on the cell cycle*”. University of Pompeu Fabra.
- 23 January 2020. Eduard Ocaña-Pallarés. Title: “*A methodological approach to study reticulate evolution in Opisthokonta*”. University of Pompeu Fabra.
- 28 May 2021. Konstantina Mitsi. Title: “*Eukaryotic diversity through the lens of metabarcoding and metagenomics*”. University of Pompeu Fabra.
- 11 March 2022 Aleksandra Kozyczkowska. Title: “*New model organisms to explore the origin of animal multicellularity. An emphasis on *Corallochytrium limacisporum**”. University of Pompeu Fabra. -Co-supervised with Elena Casacuberta.
- 12 April 2022. Patricia Suárez Ara. Title: “*he phenotypic plasticity behind the origin of animals: functional genomics, cell biology and new genetic tools*”. University of Pompeu Fabra. -Co-supervised with Sebastian Najle.

Outreach

The lab participates actively on outreach activities of the Institute. Moreover, it is active on social media, with active webpage (<http://www.multicellgenome.com>), plus twitter (<https://twitter.com/multicellgenome>), youtube (<https://www.youtube.com/user/multicellgenomeLab>), flickr (<https://www.flickr.com/people/146564503@N06/?rb=1>), and instagram (<http://instagram.com/multicellgenomelab/>) accounts. Moreover, it has an active protocols.io (<https://www.protocols.io/groups/multicellgenomelab>) and figshare (https://figshare.com/authors/Multicellgenome_Lab/2628379) accounts to share protocols and data.

- 2007. **Teacher** of the course for secondary- and high-school teachers and general public "*From crawling worms to bipedal apes in 1,000 million years: origin and major evolutionary transitions of the animals*"; organized by CosmoCaixa-U.B; Barcelona.
- 2010. **Teacher** on the half-day course for secondary- and high-school teachers " *VII Morning of evolution. An update of scientific knowledge for teachers*"; organized by Universitat de Valencia.
- Lab involved in the program “*Joves i Ciència*” of Caixa-Catalunya, in which selected high-school students perform 1-month research activities in selected labs around the world to have first-hand experience with the world of science.
- 2013. Participant of the conferences for the **general public** of Institut de Biologia Evolutiva (CSIC-Universitat Pompeu Fabra) (http://fronteresdelconeixement.cat/?page_id=43).
- 2013. Participant of “*Science Day in schools*” (<http://agora.xtec.cat/se-sants-montjuic/intranet/index.php?module=news&func=display&sid=130>).
- 2014. Speaker at the **IX Trobada de Biologia del Batxillerat**, a session for secondary school teachers. 4 April 2014; Universitat de Barcelona, Spain. (<http://www.ub.edu/ice/en/node/406>)
- 12/2/2015. **Darwin Day. Valencia**. L’origen de la pluricel·lularitat. Universitat de Valencia.
- 27/4/2015. Public Lecture at residència d’investigadors del CSIC, Barcelona. “Especies de laboratori: coneixem molt de molt poc?”
<http://www.residencia-investigadors.es/ca/activitats/especies-de-laboratori-coneixem-molt-de-molt-poc-761.htm>

-13/4/2016. **Café científico**; The origin of multicellularity. Casa Orlandai; Barcelona. <http://www.cienciaensocietat.org/intro.php?section=project&projID=37>

-October 2023. Invited participant in “*¡vamos, simbiosis!*”, an interdisciplinary project that brings together scientists, artists, and the public to discuss and develop ideas for developing a more balanced partnership with the oceans and marine life. See: <https://www.vamossimbiosis.org/>

-2024. Participation in the *children’s book “Hallo Plankton”* by illustrator Kristina Heldmann. See <https://www.kristinaheldmann.de/Hallo-Plankton>