



Guifré Torruella Cortés

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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

21 publications: 19 journal articles in indexed journals in green or gold open access (13 in Q1 of their fields), 1 book chapter, 1 preprint. 7 as first/co-first, 4 as corresponding & 1 as last author.
712 total citations, 614 since postdoc (2015); source Scopus (H-index 12).
991 total citations, 859 since postdoc (2015); source Google Scholar (H-index 13).
4 co-supervised students.
16 communications at scientific meetings.
7 grants and scholarships.
10 revisions for 8 indexed journals.



Guifré Torruella Cortés

Surname(s): **Torruella Cortés**
 Name: **Guifré**
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 Personal web page: **<https://scholar.google.com/citations?user=FAQEDSUAAAAJ&hl=ca>**

Current professional situation

Employing entity: Centre national de la recherche scientifique **Type of entity:** State agency
Department: Ecologie, systématique et Evolution Lab, Université Paris-Saclay, CNRS, AgroParisTech
Professional category: Post-doctoral researcher
City employing entity: Gif-sur-Yvette, Île de France, France
Phone: (0033) 169156342 **Email:** guifre.torruella@u-psud.fr
Start date: 01/08/2019
Type of contract: Temporary employment contract **Dedication regime:** Full time
Primary (UNESCO code): 240900 - Genetics
Secondary (UNESCO code): 241501 - Molecular biology of micro-organisms
Tertiary (UNESCO code): 240122 - Protozoology
Performed tasks: - Full-time postdoc for the ERC-AdvG 2017 PLAST-EVOL (The origin and early evolution of eukaryotic plastids): research in protist cell culture, microscopy, molecular biology, phylogenomics, transcriptomics, genomics, metabarcoding. - Preparing biological material and writing funding for this project. - Writing MSCA report and 1 manuscript. - 3 papers reviewed. - PhD student co-supervision (ITN-Singek). - Presentation of results at international meetings, including outreach activities.
Identify key words: Molecular evolution; Genomics; Evolutionary biology; Biodiversity
Applicability in teaching and/or research: ERC-PlastEvol fellow PostDoc at the Diversity, Ecology and Evolution of Microbes team with Drs. David Moreira.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Université Paris Sud	Post-doctoral researcher	01/07/2016
2	Centre national de la recherche scientifique	Post-doctoral researcher	01/01/2015
3	Universitat de Barcelona	Pre-doctoral fellow	11/09/2010

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Employing entity: Université Paris Sud **Type of entity:** University
Department: Ecologie Systématique et Evolution, Université Paris-Sud, CNRS, AgroParisTech
City employing entity: Orsay, Île de France, France
Professional category: Post-doctoral researcher **Educational Management (Yes/No):** No
Start-End date: 01/07/2016 - 30/06/2018 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 240900 - Genetics
Secondary (UNESCO code): 241501 - Molecular biology of micro-organisms
Tertiary (UNESCO code): 240122 - Protozoology
Performed tasks: - Full-time PostDoc funded with MSCA-IF AlgDates: research in parasites and algal cell cultures, microscopy, molecular biology, phylogenomics, transcriptomics, genomics, metabarcoding. - 6 peer-reviewed publications (3 external collaborations with Barcelona, Oxford and St. Petersburg universities). - 5 papers reviewed. - PhD student co-supervision (ITN-Singek). - Annual presentation of results at international meetings, including outreach activities.
Identify key words: Molecular evolution; Evolutionary biology; Phylogeny
Applicability in teaching and/or research: MSCA-IF AlgDates fellow PostDoc at the Diversity, Ecology and Evolution of Microbes team with Dr. David Moreira.

2 **Employing entity:** Centre national de la recherche scientifique **Type of entity:** Public Research Body
Department: Ecologie Systématique et Evolution, Université Paris-Sud, CNRS, AgroParisTech
City employing entity: Gif-sur-Yvette, Île de France, France
Professional category: Post-doctoral researcher **Educational Management (Yes/No):** Yes
Start-End date: 01/01/2015 - 30/06/2016 **Duration:** 1 year - 6 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 240900 - Genetics
Secondary (UNESCO code): 241501 - Molecular biology of micro-organisms
Tertiary (UNESCO code): 240122 - Protozoology
Performed tasks: - Full-time postdoc for the ERC-AdvG 2013 ProtistWorld (Protist evolution in suboxic worlds): research in protist cell culture, microscopy, molecular biology, phylogenomics, transcriptomics, genomics, metabarcoding. - 2 peer-reviewed publications (1 text-book chapter) - Master student co-supervision. - Presentation of results at international meetings, including outreach activities.
Identify key words: Molecular evolution; Evolutionary biology; Phylogeny; Biodiversity
Applicability in teaching and/or research: ERC-ProtistWorld fellow PostDoc at the Diversity, Ecology and Evolution of Microbes team with Dr. Purificación López-García.

3 **Employing entity:** Universitat de Barcelona **Type of entity:** University
Department: Genètica, Facultat de Biologia
City employing entity: Barcelona, Catalonia, Spain
Professional category: Pre-doctoral fellow
Start-End date: 11/09/2010 - 30/09/2014 **Duration:** 4 years - 19 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Performed tasks: - Full-time PhD student funded with the AGAUR-FI: research in protist cell culture, microscopy, molecular biology, phylogenomics and transcriptomics. - 2 peer-reviewed publications as first author (4 co-authorships in the same lab). - Bachelor and PhD student co-supervision. - Presentation of results at international meetings, including outreach activities.
Applicability in teaching and/or research: PhD student at the Multicellgenome Lab with Dr. Iñaki Ruiz-Trillo. Main research task plus 30h of practical teaching.



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 **University degree:** Higher degree

Name of qualification: Màster Universitari en Biologia del desenvolupament i Genètica

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Date of qualification: 13/10/2010

2 **University degree:** Higher degree

Name of qualification: Licenciado en Biología Especialidad Biología Agroalimentaria y Biotecnología

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Date of qualification: 28/07/2009

Doctorates

Doctorate programme: Genètica

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

City degree awarding entity: Barcelona, Catalonia, Spain

Date of degree: 19/12/2014

Thesis title: Phylogeny and evolutionary perspective of Opisthokonta protists

Thesis director: Iñaki Ruiz Trillo

Thesis co-director: Marta Riutort León

Obtained qualification: Cum Laude

Other postgraduate university studies

Type of education: Masters

Postgraduate qualification: Màster Universitari en Biologia del Desenvolupament i Genètica

City degree awarding entity: Barcelona, Catalonia, Spain

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Faculty, institute or centre: Facultat de Biología

Date of qualification: 13/10/2010

Obtained qualification: 8,4/10



Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1** **Type of training:** Course
Training title: EukRef: Eukaryotic Reference Database. 18S rRNA collaborative annotation initiative
City awarding entity: Roscoff, Bretagne, France
Awarding entity: Station Biologique de Roscoff
End date: 09/11/2018
Type of entity: Public Research Body
Duration in hours: 40 hours
- 2** **Type of training:** Course
Training title: Optical and Scanning Electron Microscopy image acquisition
City awarding entity: Berlín, Berlin, Germany
Awarding entity: Penard Labs
End date: 28/04/2017
Type of entity: Private Lab
Duration in hours: 30 hours
- 3** **Type of training:** Course
Training title: Triple A Winter School: Assembly, Annotation & Analysis of Whole Genome Sequence Data
City awarding entity: Ascona, Switzerland
Awarding entity: ETH Zürich
End date: 15/01/2017
Type of entity: University Research Institute
Duration in hours: 48 hours
- 4** **Type of training:** Residencies
Training title: Short-term visit at the AIRE lab
City awarding entity: Paris, Île de France, France
Awarding entity: Université Pierre et Marie Curie
Training manager: Eric Bapteste
End date: 11/09/2014
Type of entity: University
Duration in hours: 120 hours
- 5** **Type of training:** Residencies
Training title: Short-term visit at the Roger Lab
City awarding entity: Halifax, NS, Canada
Awarding entity: Dalhousie University
Training manager: Andrew Roger
End date: 30/11/2012
Type of entity: University
Duration in hours: 120 hours
- 6** **Training title:** Curs de Programació en Llenguatge R
Awarding entity: Universitat de Barcelona
End date: 09/02/2012
Type of entity: University
Duration in hours: 20 hours
- 7** **Type of training:** Course
Training title: Workshop on Molecular Evolution
City awarding entity: Woodshole, United States of America
Awarding entity: Marine Biology Laboratory
End date: 03/08/2011
Type of entity: University
Duration in hours: 64 hours



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A2	B1	A2	A2	A2
French	B2	B2	B2	B2	B2
English	C1	C1	C1	C1	C1
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

Type of teaching: Official teaching

Name of the course: Genètica Molecular

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Grau de Biologia

Course given: 3r

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 32

Entity: Universitat de Barcelona

Faculty, institute or centre: Facultat de Biologia

Subject language: Catalan

Frequency of the activity: 2

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

1 Project title: Deep eukaryotic phylogenomics

Type of project: Doctoral thesis

Co-director of thesis: Purificación López García; David Moreira

Entity: Université Paris Sud

City of entity: Orsay, Île de France, France

Student: Luis Javier Galindo González

Date of reading: 30/03/2020

2 Project title: Diversité de groupes incertae sedis chez les Eucaryotes

Type of project: Master 2

Entity: Université de Caen

City of entity: Caen, Basse-Normandie, France

Student: Elsa Boher

Date of reading: 13/06/2016

Type of entity: University



Student tutorials

Name of the programme: program Joves i Ciència from CatalunyaCaixa

Entity: Parc Científic de Barcelona

Type of entity: R&D Centre

Number of tutored students: 1

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** PLAST-EVOL (ERC AdvG 787904)

Degree of contribution: Researcher

Entity where project took place: CENTRE
NATIONAL DE LA RECHERCHE SCIENTIFIQUE
CNRS

Type of entity: State agency

Name principal investigator (PI, Co-PI....): David Moreira

Funding entity or bodies:

European Research Council

Type of entity: Public Research Body

Type of participation: Team member

Name of the programme: H2020-EU.1.1 ERC Advanced Grant

Code according to the funding entity: 787904

Start-End date: 2018 - 2023

Total amount: 2.499.986 €

Dedication regime: Full time

2 **Name of the project:** ALGDATES (MSCA-IF 704566)

Degree of contribution: Researcher

Entity where project took place: Université
Paris-Sud

Type of entity: University

Name principal investigator (PI, Co-PI....): David Moreira

Funding entity or bodies:

European Commission

Type of entity: Public Research Body

Type of participation: Co-ordinator

Name of the programme: H2020-EU.1.3.2 MSCA-IF-2015-EF

Code according to the funding entity: 704566

Start-End date: 2016 - 2018

Total amount: 173.076 €

Dedication regime: Full time



- 3** **Name of the project:** PROTISTWORLD (ERC AdvG 322669)
Degree of contribution: Researcher
Entity where project took place: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS
Type of entity: State agency
Name principal investigator (PI, Co-PI....): Purificación López García
Funding entity or bodies: European Research Council
Type of entity: Public Research Body
Type of participation: Team member
Name of the programme: FP7-IDEAS-ERC Advanced Grant
Code according to the funding entity: 322669
Start-End date: 2013 - 2018
Total amount: 2.039.812,27 €
Dedication regime: Full time
- 4** **Name of the project:** Origins, diversification and diversity of metazoa, fungi and its unicellular relatives; an evolutionary and ecological approximation
Degree of contribution: Researcher
Entity where project took place: INSTITUTO DE BIOLOGIA EVOLUTIVA
Type of entity: State agency
Name principal investigator (PI, Co-PI....): Iñaki Ruiz Trillo
Type of participation: Team member
Code according to the funding entity: BFU2014-57779-P
Start-End date: 2015 - 2017
Total amount: 484.000 €
- 5** **Name of the project:** El origen del reino animal: un análisis genómico, filogenómico y de biodiversidad de los linajes unicelulares más cercanos a los animales (BFU2011-23434)
Degree of contribution: Researcher
Entity where project took place: INSTITUTO DE BIOLOGIA EVOLUTIVA
Type of entity: State agency
Name principal investigator (PI, Co-PI....): Iñaki Ruiz Trillo
Funding entity or bodies: Ministerio de Economía y Competitividad
Type of entity: State agency
Type of participation: Team member
Code according to the funding entity: BFU2011-23434
Start-End date: 2012 - 2014
Total amount: 323.070 €
Dedication regime: Full time
- 6** **Name of the project:** A comparative genomic analysis into the origin of metazoan multicellularity
Type of project: Basic research (including archaeological digs, etc)
Geographical area: European Union
Degree of contribution: Current university student
Entity where project took place: Universitat de Barcelona
Type of entity: University
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Iñaki Ruiz Trillo
Funding entity or bodies: ERC (European Research Council)
Type of entity: Public Research Body



Type of participation: Team member
Name of the programme: Starting Grant
Code according to the funding entity: ERC-2007-StG 206883
Start-End date: 2008 - 2013 **Duration:** 5 years
Total amount: 1.211.275 €
Dedication regime: Full time

7 **Name of the project:** La transición unicelular-multicelular: una aproximación genómica (BFU2008-02839/BMC)

Entity where project took place: Universitat de Barcelona **Type of entity:** University

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Iñaki Ruiz Trillo

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: State Agency

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: BFU2008-02839/BMC

Start-End date: 2009 - 2011

8 **Name of the project:** PREMETAZOANEVOLUTION. Unravelling the unicellular prehistory of metazoans by functional analyses and single-cell genomics

Degree of contribution: Researcher

Entity where project took place: INSTITUTO DE BIOLOGIA EVOLUTIVA **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Iñaki Ruiz Trillo

Type of participation: Team member

Name of the programme: ERC Consolidator Grant

Code according to the funding entity: ERC-2013-CoG

Start date: 2015

Total amount: 1.967.535 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Luis Javier Galindo; Guifré Torruella; David Moreira; Yana Eglit; Alastair G.B. Simpson; Eckhard Völcker; Steffen Clauß; Purificación López García. Combined cultivation and single-cell approaches to the phylogenomics of nucleariid amoebae, close relatives of fungi. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 374 - 1786, pp. 20190094. The Royal Society, 2019. ISSN 0962-8436
DOI: 10.1098/rstb.2019.0094
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 8 **Corresponding author:** Yes
Impact source: ISI
Impact index in year of publication: 6.139
Source of citations: WOS **Citations:** 2
- 2** Sina M. Adl; David Bass; Christopher E. Lane; Julius Lukes; Conrad L. Schoch; Alexey Smirnov; Sabine Agatha; Cedric Berney; Matthew W. Brown; Fabien Burki; Paco Cardenas; Ivan Cepicka; Lyudmila Chistyakova; Javier del Campo; Micah Dunthorn; Bente Edvardsen; Yana Eglit; Laure Guillou; Vladimir Hampl; Aaron A. Heiss; Mona Hoppenrath; Timothy Y. James; Anna Karnkowska; Sergey A. Karpov; Eunsoo Kim; Martin Kolisko; Alexander Kudryavtsev; Daniel J. G. Lahr; Enrique Lara; Line Le Gall; Denis H. Lynn; David G. Mann; Ramon Massana; Edward A. D. Mitchell; Christine Morrow; Jong Soo Park; Jan W. Pawlowski; Martha J. Powell; Daniel J Richter; Sonja Rueckert; Lora L. Shadwick; Satoshi D. Shimano; Frederick W. Spiegel; Guifré Torruella; Noha H. Youssef; Vasily V. Zlatogursky; Qianqian Zhang. Revisions to the Classification, Nomenclature, and Diversity of Eukaryotes. *Journal of Eukaryotic Microbiology*. 66 - 1, pp. 4 - 119. Wiley-Blackwell, 2019. ISSN 1066-5234
DOI: 10.1111/jeu.12691
Type of production: Scientific paper **Format:** Journal
Position of signature: 44
Total no. authors: 47 **Corresponding author:** No
Impact source: ISI
Impact index in year of publication: 2.361
Source of citations: WOS **Citations:** 68
- 3** David Bass; Lucas Czech; Bryony A.P. Williams; Cédric Berney; Micah Dunthorn; Frédéric Mahé; Guifré Torruella; Grant D. Stentiford; Tom A. Williams. Clarifying the Relationships between Microsporidia and Cryptomycota. *Journal of Eukaryotic Microbiology*. 65 - 6, pp. 773 - 782. Wiley-Blackwell, 2018. ISSN 1066-5234
DOI: 10.1111/jeu.12519
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
Total no. authors: 9 **Corresponding author:** No
Impact source: InCites Journal Impact Factor
Impact index in year of publication: 2.537
Impact source: SCOPUS **Category:** Microbiology



Impact index in year of publication:
Position of publication: 62

Journal in the top 25%: No
No. of journals in the cat.: 147

- 4** Luis Javier Galindo; Guifré Torruella; David Moreira; Hélène Timpano; Gita G. Paskerova; Alexey V. Smirnov; Elena S. Nasonova; Purificación López García. Evolutionary genomics of metchnikovella incurvata (metchnikovellidae): An early branching microsporidium. *Genome Biology and Evolution*. 10 - 10, pp. 2736 - 2748. Oxford University Press, 2018. ISSN 1759-6653

DOI: 10.1093/gbe/evy205

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 9

Corresponding author: No

Impact source: InCites Journal Impact Factor

Impact index in year of publication: 3.940

Impact source: SCOPUS

Category: Genetics

Impact index in year of publication:

Journal in the top 25%: Yes

Position of publication: 46

No. of journals in the cat.: 330

Source of citations: WOS

Citations: 6

- 5** Guifré Torruella; Xavier Grau Bové; David Moreira; Sergey A. Karpov; John A Burns; Arnau Sebé Pedrós; Eckhard Völcker; Purificación López García. Global transcriptome analysis of the aphelid *Paraphelidium tribonemae* supports the phagotrophic origin of fungi. *Communications Biology*. 1 - 1, pp. 231. Springer Nature, 2018. ISSN 2399-3642

DOI: 10.1038/s42003-018-0235-z

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 8

Corresponding author: Yes

Source of citations: WOS

Citations: 8

- 6** David López Escardó; Purificación López García; David Moreira; Iñaki Ruíz Trillo; Guifré Torruella. *Parvularia atlantis* gen. et sp. nov., a Nucleariid Filose Amoeba (Holomycota, Opisthokonta). *Journal of Eukaryotic Microbiology*. 65 - 2, pp. 170 - 179. Wiley-Blackwell, 2018. ISSN 1066-5234

DOI: 10.1111/jeu.12450

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Total no. authors: 5

Corresponding author: Yes

Impact source: InCites Journal Impact Factor

Impact index in year of publication: 2.537

Impact source: SCOPUS

Category: Microbiology

Impact index in year of publication:

Journal in the top 25%: No

Position of publication: 62

No. of journals in the cat.: 147

Source of citations: WOS

Citations: 6

- 7** Xavier Grau Bové; Guifré Torruella; Stuart P. Donachie; Hiroshi Suga; Guy Leonard; Thomas A. Richards; Iñaki Ruíz Trillo. Dynamics of genomic innovation in the unicellular ancestry of animals. *eLife*. 6, pp. e26036. eLife Sciences Publications, 2017. ISSN 2050-084X

DOI: 10.7554/eLife.26036

Type of production: Scientific paper

Format: Journal

Position of signature: 2

**Total no. authors:** 7**Impact source:** InCites Journal Impact Factor**Impact index in year of publication:** 7.725**Impact source:** SCOPUS**Impact index in year of publication:****Position of publication:** 8**Source of citations:** WOS**Corresponding author:** No**Category:** Biochemistry, Genetics and Molecular Biology (miscellaneous)**Journal in the top 25%:** Yes**No. of journals in the cat.:** 233**Citations:** 32

- 8** Sergey A. Karpov; Guifré Torruella; David Moreira; Maria A Mamkaeva; Purificación López García. Molecular Phylogeny of Paraphelidium letcheri sp. nov. (Aphelida, Opisthosporidia). Journal of Eukaryotic Microbiology. 64 - 5, pp. 573 - 578. Wiley-Blackwell, 2017. ISSN 1066-5234

DOI: 10.1111/jeu.12389**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** InCites Journal Impact Factor**Impact index in year of publication:** 2.692**Impact source:** SCOPUS**Impact index in year of publication:****Position of publication:** 68**Source of citations:** WOS**Format:** Journal**Corresponding author:** No**Category:** Microbiology**Journal in the top 25%:** No**No. of journals in the cat.:** 147**Citations:** 12

- 9** Sergey A. Karpov; Victoria S. Tsvetkova; Maria A. Mamkaeva; Guifré Torruella; Hélène Timpano; David Moreira; Karomat S. Mamanazarova; Purificación López García. Morphological and Genetic Diversity of Opisthosporidia: New Aphelid Paraphelidium tribonemae gen. et sp. nov. Journal of Eukaryotic Microbiology. 64 - 2, pp. 204 - 212. Wiley-Blackwell, 2017. ISSN 1066-5234

DOI: doi.org/10.1111/JEU.12352**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 8**Impact source:** InCites Journal Impact Factor**Impact index in year of publication:** 2.692**Impact source:** SCOPUS**Impact index in year of publication:****Position of publication:** 68**Source of citations:** WOS**Format:** Journal**Corresponding author:** No**Category:** Microbiology**Journal in the top 25%:** No**No. of journals in the cat.:** 147**Citations:** 9

- 10** Guifré Torruella; David Moreira; Purificación López García. Phylogenetic and ecological diversity of apusomonads, a lineage of deep-branching eukaryotes. Environmental Microbiology Reports. 9 - 2, pp. 113 - 119. Wiley-Blackwell, 2017. ISSN 1758-2229

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 3**Impact source:** InCites Journal Impact Factor**Impact index in year of publication:** 3.363**Format:** Journal**Corresponding author:** Yes

**Impact source:** SCOPUS**Impact index in year of publication:****Position of publication:** 86**Source of citations:** WOS**Category:** Ecology, Evolution, Behaviour and Systematics**Journal in the top 25%:** Yes**No. of journals in the cat.:** 612**Citations:** 4

- 11** Romain Derelle; Guifré Torruella; Vladimír Klimeš; Henner Brinkmann; Eunsoo Kim; Čestmír Vlček; Brend F. Lang; Marek Eliáš. Bacterial proteins pinpoint a single eukaryotic root. Proceedings of the National Academy of Sciences of the United States of America. 112 - 7, pp. E693 - E699. 2015. ISSN 0027-8424

DOI: 10.1073/pnas.1420657112**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 8**Corresponding author:** No

- 12** 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; Iñaki Ruíz Trillo. Phylogenomics Reveals Convergent Evolution of Lifestyles in Close Relatives of Animals and Fungi. Current Biology. 25 - 18, pp. 2404 - 2410. Elsevier, 2015. ISSN 0960-9822

DOI: 10.1016/j.cub.2015.07.053**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 15**Corresponding author:** No**Impact source:** CiteFactor**Impact index in year of publication:** 9.571**Impact source:** SCOPUS**Category:** Biochemistry, Genetics and Molecular Biology (miscellaneous)**Impact index in year of publication:****Journal in the top 25%:** Yes**Position of publication:** 16**No. of journals in the cat.:** 233**Source of citations:** WOS**Citations:** 51

- 13** Hiroshi Suga; Guifré Torruella; Gertraud Burger; Matthew W. Brown; Iñaki Ruíz Trillo. Earliest holozoan expansion of phosphotyrosine signaling. Molecular Biology and Evolution. Oxford University Press, 2014. ISSN 0737-4038

DOI: 10.1093/molbev/mst241**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 5**Corresponding author:** No**Impact source:** CiteFactor**Impact index in year of publication:** 14.308**Impact source:** SCOPUS**Category:** Genetics**Impact index in year of publication:****Journal in the top 25%:** Yes**Position of publication:** 7**No. of journals in the cat.:** 315**Source of citations:** WOS**Citations:** 26

- 14** Arnau Sebé Pedrós; Ana Ariza Cosano; Matthew T. Weirauch; Sven Leininger; Ally W.H. Yang; Guifré Torruella; Marcin Adamski; Maja Adamska; Timothy R. Hughes; José Luis Gómez Skármeta; Iñaki Ruíz Trillo. Early evolution of the T-box transcription factor family. Proceedings of the National Academy of



Sciences of The United States Of America (PNAS). 110 - 40, pp. 16050 - 16055. 2013. Available on-line at: <<https://www.pnas.org/content/110/40/16050>>. ISSN 0027-8424

DOI: 10.1073/pnas.1309748110

Type of production: Scientific paper

Format: Journal

Position of signature: 6

Total no. authors: 11

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 9.737

Impact source: SCOPUS

Category: Multidisciplinary

Impact index in year of publication:

Journal in the top 25%: Yes

Position of publication: 3

No. of journals in the cat.: 117

Source of citations: WOS

Citations: 41

Source of citations: PNAS

Citations: 47

- 15** 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; Brend F. Lang; Carsten Russ; Brian J. Haas; Andrew J. Roger; Chad Nusbaum; Iñaki Ruíz Trillo. The Capsaspora genome reveals a complex unicellular prehistory of animals. Nature Communications. 4 - 2325, Springer Nature, 2013. ISSN 2041-1723

DOI: 10.1038/ncomms3325

Type of production: Scientific paper

Format: Journal

Position of signature: 18

Total no. authors: 11

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 10.015

Impact source: SCOPUS

Category: Biochemistry, Genetics and Molecular Biology (miscellaneous)

Impact index in year of publication:

Journal in the top 25%: Yes

Position of publication: 11

No. of journals in the cat.: 229

Source of citations: WOS

Citations: 144

- 16** Alex de Mendoza; Arnau Sebé Pedrós; Martin Sebastijan Šestak; Marija Matejčić; Guifré Torruella; Tomislav Domazet Lošo; Iñaki Ruíz Trillo. Transcription factor evolution in eukaryotes and the assembly of the regulatory toolkit in multicellular lineages. Proceedings of the National Academy of Sciences of the United States of America. 110 - 50, pp. E4858 - E4866. 2013. ISSN 0027-8424

DOI: 10.1073/pnas.1311818110

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Total no. authors: 7

Corresponding author: No

Impact source: JCR-Impact-Factors-List-2013

Impact index in year of publication: 9.737

Impact source: SCOPUS

Category: Multidisciplinary

Impact index in year of publication:

Journal in the top 25%: Yes

Position of publication: 3

No. of journals in the cat.: 117

Source of citations: WOS

Citations: 84

Source of citations: SCOPUS

Citations: 77

**Source of citations:** PNAS**Citations:** 98

- 17** Guifré Torruella; Romain Derelle; Jordi Paps; Bernd F. Lang; Andrew J. Roger; Kamran Shalchian Tabrizi; Iñaki Ruíz Trillo. Phylogenetic relationships within the Opisthokonta based on phylogenomic analyses of conserved single-copy protein domains. *Molecular Biology and Evolution*. 29 - 2, pp. 531 - 544. Oxford University Press, 2012. ISSN 0737-4038

DOI: 10.1093/molbev/msr185**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 7**Corresponding author:** No**Impact source:** ISI**Impact index in year of publication:** 5.55**Impact source:** SCOPUS**Category:** Genetics**Impact index in year of publication:****Journal in the top 25%:** Yes**Position of publication:** 17**No. of journals in the cat.:** 302**Source of citations:** WOS**Citations:** 103**Source of citations:** SCOPUS**Citations:** 100

- 18** Guifré Torruella; Hiroshi Suga; Marta Riutort; Juli Peretó; Iñaki Ruíz Trillo. The evolutionary history of lysine biosynthesis pathways within eukaryotes. *Journal of Molecular Evolution*. 69 - 3, pp. 240 - 248. Springer Nature, 2009. ISSN 0022-2844

DOI: 10.1007/s00239-009-9266-x**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 5**Corresponding author:** No**Impact source:** CiteFactor**Impact index in year of publication:** 2.323**Impact source:** SCOPUS**Category:** Ecology, Evolution, Behaviour and Systematics**Impact index in year of publication:****Journal in the top 25%:** Yes**Position of publication:** 61**No. of journals in the cat.:** 495**Source of citations:** SCOPUS**Citations:** 20**Source of citations:** Journal of Molecular Evolution**Citations:** 22

- 19** Guifré Torruella; David Moreira; Iñaki Ruíz Trillo. The domain Eucarya. The rise of organisms with nucleated cells. *The Tree of Life*. pp. 36 - 46. Sinauer, 2014. ISBN 9781605352299

Type of production: Book chapter**Format:** Book**Position of signature:** 1**Degree of contribution:** Author or co-author of chapter in book**Total no. authors:** 3**Corresponding author:** No



Works submitted to national or international conferences

- 1** **Title of the work:** Global transcriptome analysis of the aphelid *Paraphelidium tribonemae* supports the phagotrophic origin of fungi.
Name of the conference: EMBO Comparative genomics of eukaryotic microbes: Genomes in flux, and flux between genomes.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Sant Feliu de Guíxols, Catalonia, Spain
Date of event: 2019
Organising entity: European Molecular Biology Organization **Type of entity:** Public Research Body
Guifré Torruella; Xavier Grau Bové; David Moreira; Sergey Karpov; John Burns; Arnau Sebé Pedrós; Eckhard Völcker; Purificación López García. Available on-line at: <https://www.researchgate.net/publication/336563208_Global_transcriptome_analysis_of_the_aphelid_Paraphelidium_tribonemae_supports_the_phag>
- 2** **Title of the work:** Phylogeny and evolutionary perspectives of Opisthokonta protists.
Name of the conference: SEMBIO seminar
Type of event: Seminar
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 2019
Organising entity: Universitat de Barcelona **Type of entity:** University
Guifré Torruella.
- 3** **Title of the work:** The cousins of fungi.
Name of the conference: II Joint Congress on Evolutionary Biology.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Montpelhièr, Languedoc-Roussillon, France
Date of event: 2018
Guifré Torruella; Luis Javier Galindo González; Hélène Timpano; Yana Eglit; Alastair Simpson; Eckhard Völcker; Purificación López García; David Moreira. Available on-line at: <https://www.researchgate.net/publication/327403443_The_cousins_of_fungi>.
- 4** **Title of the work:** The transcriptome of *Paraphelidium tribonemae* illuminates the ancestry of Fungi.
Name of the conference: International Society of Evolutionary Protistology.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Droushia, Cyprus
Date of event: 2018
Organising entity: International Society of Evolutionary Protistology **Type of entity:** Associations and Groups
Guifré Torruella; Xavier Grau Bové; David Moreira; Sergey Karpov; John Burns; Arnau Sebé Pedrós; Eckhard Völcker; Purificación López García. Available on-line at: <https://www.researchgate.net/publication/338544134_The_transcriptome_of_Paraphelidium_tribonemae_illuminates_the_ancestry_of_Fungi>.



- 5** **Title of the work:** Insights into the genome of *Metchnikovella incurvata* (Metchnikovellidae), an early branching member of the parasitic Microsporidia.
Name of the conference: International Congress of Protistology 2017
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Prague, Praha, Czech Republic
Date of event: 2017
Organising entity: International Society of Protistology
Type of entity: Associations and Groups
Luis Javier Galindo González; Guifré Torruella; Elena Nasonova; Alexey Smirnov Bové; David Moreira; Purificación López García. Available on-line at: <https://www.researchgate.net/publication/327822366_Evolutionary_Genomics_of_Metchnikovella_incurvata_Metchnikovellidae_An_Early_Branching>
- 6** **Title of the work:** Phylogenomic analysis of *Paraphelidium tribonemae* (Aphelida, Opisthosporidia, Opisthokonta).
Name of the conference: International Congress of Protistology 2017
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Prague, Praha, Czech Republic
Date of event: 2017
Organising entity: International Society of Protistology
Type of entity: Associations and Groups
Guifré Torruella; Sergey Karpov; Xavier Grau Bové; Eckhard Völcker; Purificación López García; David Moreira. Available on-line at: <https://www.researchgate.net/publication/338543839_Phylogenomic_analysis_of_Paraphelidium_tribonemae_Aphelida_Opisthosporidia_Opisthokonta>
- 7** **Title of the work:** The cousins of fungi: nucleariids and opisthosporidians.
Name of the conference: International Symposium on Interaction of fungi with plants, animals and human.
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
City of event: Tokyo, Japan
Date of event: 2017
Organising entity: National Museum of Nature and Science
Type of entity: Public Research Body
Available on-line at: <https://www.researchgate.net/publication/338543938_The_cousins_of_fungi_nucleariids_and_opisthosporidians>.
- 8** **Title of the work:** *Parvularia* gen. nov. represents a deep-branching filose amoeba related to nucleariids, the earliest-branching lineage of Holomycota (Opisthokonta).
Name of the conference: Protist-2016
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Moscow, Russia
Date of event: 2016
Organising entity: International Society of Protistology
Guifré Torruella; David López Escardó; Iñaki Ruiz Trillo; Purificación López García; David Moreira. Available on-line at: <https://www.researchgate.net/publication/338543759_Parvularia_gen_nov_a_new_nucleariid_amoeba_in_Holomycota_Opisthokonta>.



- 9** **Title of the work:** Apusomonad environmental surveys establish new clades in both marine and fresh water environments.
Name of the conference: VII European Congress of Protistology.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Seville, Andalusia, Spain
Date of event: 2015
Organising entity: International Society of Protistology
Guifré Torruella; David Moreira; Purificación López García. Available on-line at: <https://www.researchgate.net/publication/283484592_FINAL_PROGRAMME_AND_ABSTRACTS_BOOK_-_VII_EUROPEAN_CONGRESS_OF_PROTISTOLOGY_in_partnership_with_THE_INTERNATIONAL_SOCIETY_OF_P_ISOP_Joint_Meeting>.
- 10** **Title of the work:** Opisthokonts and their relatives: a clue to understanding early eukaryote diversification?
Name of the conference: The Company of Biologists: Eukaryo-/Archaeogenesis; Where Do We Stand?
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: West Sussex, United Kingdom
Date of event: 2015
Organising entity: The Company of Biologists
Guifré Torruella; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338543360_Opisthokonts_and_their_relatives_a_clue_to_understand_early_eukaryote_diversification>.
- 11** **Title of the work:** A taxon-wide phylogenomic study on Opisthokonta protists.
Name of the conference: International Congress of Protistology (ICOP XIV)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Vancouver, Canada
Date of event: 2013
Organising entity: International Society of Protistology
Guifré Torruella; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338543337_A_taxon-wide_phylogenomic_study_on_Opisthokonta_protists>.
- 12** **Title of the work:** Relationships within the Opisthokonta Based on Phylogenomic Analyses of Conserved Single-Copy Protein Domains.
Name of the conference: Rencontres Alphy. Génomique évolutive, bioinformatique, alignement et phylogénie
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Banyuls de la Marenda, Languedoc-Roussillon, France
Date of event: 2012
Organising entity: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
Guifré Torruella; Romain Derelle; Jordi Paps; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338543322_Relationships_within_the_Opisthokonta_Based_on_Phylogenomic_Analyses_of_Conserved_Si_Copy_Protein_Domains>.
- 13** **Title of the work:** Relationships within the Opisthokonta Based on Phylogenomic Analyses of Conserved Single-Copy Protein Domains.
Name of the conference: SESBE III
Type of event: Conference
Type of participation: Participatory - oral communication



City of event: Madrid, Community of Madrid, Spain

Date of event: 2011

Organising entity: Sociedad Española de Biología Evolutiva

Guifré Torruella; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338543230_Phylogenetic_Relationships_within_the_Opisthokonta_Based_on_Phylogenomic_Analyses_of_Copy_Protein_Domains>.

14 Title of the work: Phylogenomics of Opisthokonts using protein domains

Name of the conference: Frontiers in biodiversity seminar. A phylogenetic perspective.

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Barcelona, Catalonia, Spain

Date of event: 2010

Organising entity: Institut de Recerca de la Biodiversitat

Type of entity: University Research Institute

Guifré Torruella; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338543127_Phylogenomics_of_Opisthokonts_using_protein_domains>.

15 Title of the work: Towards establishing new pre-metazoan model organism.

Name of the conference: BCN Developmental Biology joint retreat

Type of event: Seminar

Type of participation: 'Participatory - poster

City of event: Sant Feliu de Guíxols, Catalonia, Spain

Date of event: 2010

Organising entity: Departament de Genètica UB

Type of entity: University Department

Guifré Torruella; Arnau Sebé Pedrós; Alexandre de Mendoza; Núria Sánchez; Lora Lindley; Hiroshi Suga; Iñaki Ruiz Trillo.

16 Title of the work: Several LGT events involved in the Lysine biosynthesis pathway

Name of the conference: 2nd meeting of Spanish Society of evolutionary Biology

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: València, Valencian Community, Spain

Date of event: 2009

Organising entity: Sociedad Española de Biología Evolutiva

Guifré Torruella; Hiroshi Suga; Marta Riutort; Juli Peretó; Iñaki Ruiz Trillo. Available on-line at: <https://www.researchgate.net/publication/338542986_Several_LGT_events_involved_in_the_Lysine_biosynthesis_pathway>.

Other dissemination activities

1 Title of the work: Les approches de "cellule unique" pour explorer la biodiversité cryptique des protistes

Type of event: Outreach news article

Corresponding author: Yes

Date of event: 2019

Organising entity: Life Sciences Université Paris-Saclay

Type of entity: University

City organizing entity: France

Type: Popular science article

Guifré Torruella; Purificación López García. Available on-line at: <<http://sco.lt/5UEFpw>>.



- 2 Title of the work:** Bavardages Evolutifs
Name of the event: II Joint Congress on Evolutionary Biology
City of event: Montpellier, 20/08/2018, France
Date of event: 20/08/2018

Guifré Torruella; Olivier Tenaillon. Available on-line at: <<https://www.ac-montpellier.fr/cid133191/congres-evolution-montpellier-2018-le-rectorat-de-l-academie-de-montpellier-accueil-une-rencontre-public-chercheurs.html>>.

R&D management and participation in scientific committees

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: BMC Biology
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
- 2 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: Environmental Microbiology
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
- 3 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: European Journal of Protistology
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
- 4 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: Metabarcoding & Metagenomics
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
- 5 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: Molecular Phylogeny and Evolution
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
- 6 Name of the activity:** Reviewer
Performed tasks: Reviewing duties
Entity where activity was carried out: Journal: PeerJ



Type of activity: Review of articles in scientific or technological journals

Frequency of the activity: 1

Access system: Designated by the corresponding party without competition

7 Name of the activity: Reviewer

Performed tasks: Reviewing duties

Entity where activity was carried out: Journal: Journal of Eukaryotic Microbiology

Type of activity: Review of articles in scientific or technological journals

Frequency of the activity: 2

Access system: Designated by the corresponding party without competition

8 Name of the activity: Reviewer

Performed tasks: Reviewing duties

Entity where activity was carried out: Journal: Protist

Type of activity: Review of articles in scientific or technological journals

Frequency of the activity: 2

Access system: Designated by the corresponding party without competition

Other achievements

Stays in public or private R&D centres

1 Entity: Université Pierre et Marie Curie

City of entity: Paris, Île de France, France

Start-End date: 01/03/2014 - 11/09/2014

Goals of the stay: Guest

Provable tasks: Research stay at AIRE lab

Type of entity: University

Duration: 5 months

2 Entity: Dalhousie University

City of entity: Halifax, NS, Canada

Start-End date: 01/09/2012 - 30/11/2012

Funding entity: EMBO and SEG

Goals of the stay: Doctorate

Provable tasks: Research stay at the Roger Lab (with 2 travel grants)

Type of entity: University

Duration: 3 months

3 Entity: Universitat de Barcelona

Faculty, institute or centre: Facultat de Biologia

City of entity: Barcelona, Catalonia, Spain

Start-End date: 08/03/2007 - 31/05/2009

Funding entity: AGAUR

City funding entity: Barcelona, Catalonia, Spain

Name of programme: Ajusts a l'estudi de caràcter especial anomenats Beques de Col·laboració per al curs 2008-2009

Goals of the stay: AGAUR pregraduate fellowship

Provable tasks: Research at the Multicellgenome Lab

Type of entity: University

Duration: 2 years

Type of entity: University Centres and Structures and Associated Bodies



Obtained grants and scholarships

- 1** **Name of the grant:** Ajuts per a la contractació de personal investigador novell (FI-DGR 2010)
City awarding entity:
Aims: Pre-doctoral
Awarding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA
Amount of the grant: 43.200 €
Conferral date: 01/03/2011 **Duration:** 3 years
End date: 08/02/2014
- 2** **Name of the grant:** AJUT DE PERSONAL INVESTIGADOR PREDOCTORAL EN FORMACIÓ (APIF)
City awarding entity: Barcelona, Catalonia, Spain
Aims: Pre-doctoral
Awarding entity: Universitat de Barcelona **Type of entity:** University
Amount of the grant: 3.608 €
Conferral date: 21/09/2010 **Duration:** 4 months
End date: 31/01/2011
Entity where activity was carried out: Universitat de Barcelona
Faculty, institute or centre: Facultat de Biologia
- 3** **Name of the grant:** Beques de Col·laboració
City awarding entity:
Aims: undergraduate research
Awarding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA
Amount of the grant: 2.700 €
Conferral date: 2008 **Duration:** 1 year
End date: 2009
Entity where activity was carried out: Universitat de Barcelona
Faculty, institute or centre: Facultat de Biologia
- 4** **Name of the grant:** Marie Skłodowska-Curie action (MSCA-IF 2015)
City awarding entity:
Aims: Post-doctoral
Awarding entity: European Commission
Amount of the grant: 173.076 €
Conferral date: 28/01/2016 **Duration:** 2 years
Entity where activity was carried out: Université Paris-Sud
- 5** **Name of the grant:** Holtz-Conner Travel award, ICOP XIV
City awarding entity:
Aims: Pre-doctoral
Awarding entity: International Society of Protistologists **Type of entity:** Associations and Groups
Amount of the grant: 1.000 €
Conferral date: 27/04/2013
- 6** **Name of the grant:** Travel Grant
City awarding entity:
Aims: Pre-doctoral

