



## **Juan Antonio Gabaldón Estevan**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I have a degree in Biology and an advanced degree in Biochemistry and Molecular Biology from the University of Valencia, with special mention. In 2005 I obtained my PhD in the Medical Sciences from the Nijmegen University and the best thesis of the year (NCMLS award). I obtained an EMBO Long-term fellowship to move to the CIPF (Valencia), where I worked for three years. During that time I was awarded Juan de La Cierva and FIS grants. In September 2008 I was hired as a junior group leader at the CRG (Barcelona), where I led my group for 11 years. In 2013 I became an ICREA Research Professor. In April 2019 I moved my group with a Joint affiliation as a Senior group leader to the Barcelona Supercomputing Centre (BSC) and the Institute for Research in Biomedicine (IRB). Since 2009 I am also Associate Professor at the UPF, where I teach bioinformatics and comparative and functional genomics. I am recognized internationally by my peers as a lead expert in comparative genomics, bioinformatics, and molecular evolution. I have made relevant contributions in various fields, including the origin and evolution of eukaryotic organelles, evolutionary genomics of main eukaryotic lineages, including fungi, plants and animals, and the implementation of high-throughput evolutionary analyses to address the evolution of traits related to disease and pathogenesis. I have co-authored 13 book chapters, and over 300 peer-reviewed publications, in journals such as Science (4), Nature (3), Cell (1), or Nature Microbiology (5), and in leading journals of our field. Overall my work has received over 45,000 citations, and an h-index of 96. In all co-authored articles I took a very active role, and in most of them I am first or senior author.

My group currently consists of 23 members; from PhD candidates to experienced post-docs, and is recognized with a consolidated group of excellence label by the Catalan research agency. Through continuous mentoring and support I help members of my group to follow on with their desired careers. All past members of the group have continued in research one way or another, seven of them are now principal investigators at centers in Spain (UIC, IBE, IRB, BSC, UB, and CBGP), and France (CNRS), they obtained three ERC starting or consolidator grants, and four Ramón y Cajal grants. One past member is CEO of a start-up company, and five others work as researchers in industry. Other members are currently staff scientists in public research institutions or postdoctoral researchers, in Spain or elsewhere. Despite the difficult economical context, I have been able to secure funding for my group from highly competitive sources, including the European Programs, the Qatar foundation, the Association for International Cancer Research and the Spanish Ministry of Science. I am often solicited as an expert to evaluate articles at recognized journals, and projects at international agencies, including the ERC. I have also served in several evaluation panels (ERC, FWO, Spanish Ministry of Science), and in scientific advisory boards of prestigious institutions (France Genomic). I am chief section editor or associate editor at several journals (IUBMB-Life, Frontiers in Fungal Biology, FEMS Yeast, NAR Genomics and Bioinformatics). I have been invited to write book chapters, reviews and opinion articles in prestigious journals (i.e. Nature Rev. Genetics, An Rev. Microb., etc), as well as to deliver plenary seminars in the most-recognized international conferences in my field. I have collaborated in several



initiatives for the popular communication of science (articles in popular magazines, TV/ radio interviews) and I have led a large “citizen science” project [www.sacalalengua.org](http://www.sacalalengua.org). I have been recently elected to the 2024 Fellowship Class by the American Academy of Microbiology. I have been awarded the competitive and highly prestigious

## 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.

### Source: Google Scholar (28/02/2025)

Total number of publications: 320

Total citations (without auto-citations): 45194

h-index: 96

Doctoral thesis (2006-2025): 27 (17 defended and 10 in progress).

### Honours & Awards:

A yeast biological genus (Gabaldonia) has been named in honor of my contribution to the field of fungal genomics, 2024

Elected Fellow of the American Academy of Microbiology, 2024.

Highly Cited Researcher, Clarivate analytics, 2018.

Margaret Dayhoff award, Society for Molecular Biology and Evolution, 2017.

Elected member of EMBO, the Academia Joven de España, the Global Young Academy of Scientists, the Young Academic of Europe, and the Real Academia de Farmacia.

President of the Sociedad Española de Biología Evolutiva, from 2017-current.

Extensive teaching experience, degree courses in the Universities of Pompeu Fabra (Barcelona), Valencia, Alicante and Nijmegen. And the Masters in Bioinformatics of the Universidad Internacional de Andalucía y UPF.

Journal reviewer of Science, Nature, PLOS Biology, Genome Biology, Molecular Biology and Evolution, Bioinformatics, Journal of Molecular Evolution, Applied Bioinformatics, PLoS ONE, BMC Genomics, BMC Evolutionary Biology and Evolutionary Bioinformatics, Fungal Biology.

NCMLS Best thesis Award, 2005.

Special Bachelor's Award, Biochemistry and Molecular Biology Degree, Universitat de Valencia, 1996.

### Organization of Scientific Meetings:

2025 Congress of the European Society for Evolutionary Biology (ESEB) (in progress).

2023 Meeting of the European Society for Evolutionary Biology (ESEB).

2018 6th Meeting of the Spanish Society for Evolutionary Biology-SESBE2018, Palma de Mallorca, Spain.

2015, 2017, 2019 EMBO workshop on comparative genomics of microbial eukaryotes, Sant Feliu de Guixols, Spain.

2015 Quest for Orthologs Meeting, Barcelona, Spain.



2013 Quest for Orthologs Meeting. Laussane, Switzerland.  
2012 RECOMB. International Conference on Research in Computational Molecular Biology. Barcelona, Spain.  
2009 II Workshop on Pea Aphid Genomics. Barcelona, Spain.  
2007 BIRD 2007, Bioinformatics Research and Development conference.



## Juan Antonio Gabaldón Estevan

Surname(s): **Gabaldón Estevan**  
 Name: **Juan Antonio**  
 DNI: **22569511W**  
 ORCID: **0000-0003-0019-1735**  
 ScopusID: **35229109400**  
 ResearcherID: **A-7336-2008**  
 Date of birth: **08/11/1973**  
 Gender: **Male**  
 Nationality: **Spain**  
 Country of birth: **Spain**  
 Aut. region/reg. of birth: **Valencian Community**  
 Contact province: **Barcelona**  
 City of birth: **Valencia**  
 Contact address: **C/ Jordi Girona, 29**  
 Rest of contact address: **Edificio Nexus II 1A**  
 Postcode: **080034**  
 Contact country: **Spain**  
 Contact aut. region/reg.: **Catalonia**  
 Contact city: **Barcelona**  
 Land line phone: **(34) 616953333**  
 Email: **toni.gabaldon@bsc.es**  
 Mobile phone: **(0034) 616953333**  
 Personal web page: **http://cgenomics.org**

### Current professional situation

**Employing entity:** Barcelona Supercomputing Centre (BSC) and Institute for Research in Biomedicine (IRB)      **Type of entity:** R&D Centre  
**Department:** Life Science and Comparative Genomics, Life Science and Comparative Genomics  
**Professional category:** Principal Investigator      **Leadership and management (Y/N):** Yes  
**City employing entity:** Barcelona, Catalonia, Spain  
**Phone:** (0034) 616953333      **Email:** toni.gabaldon@irbbarcelona.org  
**Start date:** 01/04/2019  
**Type of contract:** Permanent employment contract      **Dedication regime:** Full time  
**Performed tasks:** Group Leader  
**Identify key words:** Biomedicine; Evolutionary biology; Computational biology; Genomics; Mycology  
**Area of leadership and/or management activity:** Public Research Body

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Centro de Investigación Príncipe Felipe	Investigador asociado	17/10/2005



	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
2	NMLS – Radboud University Nijmegen (Holanda)	Investigador Contratado Junior	16/10/2001
3	Universitat de València	Investigador en Formación	01/01/1997
4	Universitat Pompeu Fabra	Profesor Asociado	01/01/2009
5	Centre de Regulació Genòmica (Barcelona – Spain)	Jefe de Grupo	01/09/2008

- 1 Employing entity:** Centro de Investigación Príncipe Felipe  
**Professional category:** Investigador asociado  
**Start-End date:** 17/10/2005 - 31/08/2008
- 2 Employing entity:** NMLS – Radboud University Nijmegen (Holanda)  
**Professional category:** Investigador Contratado Junior  
**Start-End date:** 16/10/2001 - 16/10/2005
- 3 Employing entity:** Universitat de València  
**Professional category:** Investigador en Formación  
**Start-End date:** 01/01/1997 - 31/12/2000
- 4 Employing entity:** Universitat Pompeu Fabra  
**Professional category:** Profesor Asociado  
**Start date:** 01/01/2009
- 5 Employing entity:** Centre de Regulació Genòmica (Barcelona – Spain)  
**Professional category:** Jefe de Grupo  
**Start date:** 01/09/2008



## Education

### University education

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

- 1 **Name of qualification:** Certificate in Molecular Life Sciences  
**Degree awarding entity:** NCMLS – Radboud University Nijmegen (Holanda)  
**Date of qualification:** 2005
- 2 **Name of qualification:** Suficiencia Investigadora- programa de doctorado de Bioquímica y Biología Molecular  
**Degree awarding entity:** Universitat de València  
**Date of qualification:** 1999
- 3 **Name of qualification:** Licenciatura en Ciencias Biológicas  
**Degree awarding entity:** Universitat de València  
**Date of qualification:** 1996

#### Doctorates

**Doctorate programme:** Doctorate in Medical Sciences  
**Degree awarding entity:** Radboud University Nijmegen (Holanda)  
**Date of degree:** 2005

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	A1	A1	A1	A1	A1
Spanish	A1	A1	A1	A1	A1
English	A1	A1	A1	A1	A1
German	A1	A1	A2	A2	A2





## 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:** Improvements of the quality and safety of fermented beverages through the management and control of

**Entity where project took place:** Barcelona Supercomputing Center      **Type of entity:** Public Research Body

**City of entity:** Barcelona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Funding entity or bodies:** European Commission, Horizon Europe

**Type of participation:** Principal investigator

**Name of the programme:** Horizon Europe

**Code according to the funding entity:** HORIZON-MSCA-2023-DN-01-01

**Start-End date:** 01/02/2025 - 31/01/2029

**Total amount:** 251.971,2 €
- 2** **Name of the project:** Perfiles metagenómicos en tubos de test de inmunoquímica fecal para la identificación de factores y marcadores de diagnóstico temprano en cáncer colorrectal

**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Funding entity or bodies:** Fundación científica asociación española contra el cáncer (AECC)

**Type of participation:** Principal investigator

**Name of the programme:** Ayuda Proyectos Generales AECC 2023

**Code according to the funding entity:** PRYGN234923GABA

**Start-End date:** 12/2023 - 02/2027

**Total amount:** 290.878 €
- 3** **Name of the project:** Blood pressure screening at the dentist: looking at nitrate-reducing bacteria as a link between periodontal disease and hypertension

**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA

**Name principal investigator (PI, Co-PI....):** Antonio Gabaldón Estevan

**Funding entity or bodies:** Fundació la Marató de TV3

**Type of participation:** Principal investigator

**Name of the programme:** La Marató de TV3

**Code according to the funding entity:** 202328-31

**Start-End date:** 01/2024 - 12/2026

**Total amount:** 125.000 €



- 4** **Name of the project:** CandiRes\_Advance: progression of novel antifungal drugs against Candida superbugs  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Agencia de Gestio d'Ajuts Universitaris i de Recerca  
**Type of participation:** Principal investigator  
**Name of the programme:** Indústria del Coneixement 2023  
**Code according to the funding entity:** 2024 PROD 00175  
**Start-End date:** 02/12/2024 - 01/06/2026  
**Total amount:** 150.000 €
- 5** **Name of the project:** Novel antifungal compounds against multiresistant Candida  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Ministerio de Ciencia e Innovación **Type of entity:** PID2021-126067NB-I00  
**Type of participation:** Principal investigator  
**Name of the programme:** Prueba de Concepto  
**Code according to the funding entity:** PDC2022-133266-I00  
**Start-End date:** 01/12/2022 - 30/09/2025  
**Total amount:** 149.500 €
- 6** **Name of the project:** Origen, evolución y adaptación en patógenos del género Cándida: una aproximación genómica y transcriptómica  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Type of participation:** Principal investigator  
**Name of the programme:** Plan estatal  
**Code according to the funding entity:** PID2021-126067NB-I00  
**Start-End date:** 09/2022 - 09/2025  
**Total amount:** 393.250 €
- 7** **Name of the project:** Computational multiplexing to optimise next-generation sequencing  
**Entity where project took place:** Barcelona **Type of entity:** Public Research Body  
Supercomputing Center  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
European Commission  
**Type of participation:** Principal investigator  
**Name of the programme:** European Commission  
**Code according to the funding entity:** 101123165  
**Start-End date:** 01/12/2023 - 31/05/2025  
**Total amount:** 70.000 €



- 8** **Name of the project:** Microbial biomarker test for early diagnosis of colorectal cancer (MiCRC)  
**Entity where project took place:** Barcelona **Type of entity:** Public Research Body  
Supercomputing Center  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Fundación La Caixa  
**Type of participation:** Principal investigator  
**Name of the programme:** CaixaImpuls Innovación  
**Code according to the funding entity:** CI23-20260  
**Start-End date:** 09/2023 - 12/2024  
**Total amount:** 150.000 €
- 9** **Name of the project:** Acquisition of fungal resistance in pathogenic Candida spp: evolutionary paths, fitness trade-offs, and interaction with the immune system”- Fundació La Caixa  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Obra Social Fundació la Caixa **Type of entity:** Foundation  
**Type of participation:** Principal investigator  
**Name of the programme:** HR21-00737  
**Code according to the funding entity:** HR21-00737  
**Start-End date:** 12/2021 - 12/2024  
**Total amount:** 499.244 €
- 10** **Name of the project:** Microbiota Oral en Fibrosis Quística  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Fundación Española de Enfermedades Raras  
**Type of participation:** Principal investigator  
**Name of the programme:** Fundación Española de Enfermedades Raras  
**Code according to the funding entity:** AI-2021-034  
**Start-End date:** 10/2021 - 10/2023  
**Total amount:** 25.000 €
- 11** **Name of the project:** Relative Timing and Modularity in The Path to the Last Eukaryotic Common Ancestor  
**Entity where project took place:** Barcelona **Type of entity:** Public Research Body  
Supercomputing Center  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Funding entity or bodies:**  
Gordon and Betty Moore Foundation  
**Type of participation:** Principal investigator  
**Name of the programme:** Gordon and Betty Moore Foundation  
**Code according to the funding entity:** 9742-LECA-TIME  
**Start-End date:** 09/2020 - 09/2022  
**Total amount:** 379.125 €



- 12** **Name of the project:** "Evolución genómica y fenotípica en patógenos fúngicos emergentes"  
(PGC2018-099921-B-I00)  
**Entity where project took place:** FUNDACIO PRIVADA INSTITUT DE RECERCA BIOMEDICA  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
Ministerio de Ciencia Innovación y Universidades  
**Start-End date:** 01/2019 - 12/2021 **Duration:** 3 years  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 290.000 €
- 13** **Name of the project:** Evolución genómica en patógenos fúngicos emergentes - BFU2015-67107-P  
**Entity where project took place:** Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
Ministerio de Economía y Competitividad y FEDER  
**Start-End date:** 01/2016 - 12/2021 **Duration:** 2 years - 11 months  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 290.000 €
- 14** **Name of the project:** RETVOLUTION: Processes and Patterns of reticulate evolution in eukaryotes  
**Entity where project took place:** Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón estevan  
**Funding entity or bodies:**  
European Comission  
**Start date:** 01/01/2018  
**Total amount:** 1.980.000 €
- 15** **Name of the project:** From Omics to Patient: Improving Diagnostics of Pathogenic Yeasts-OPATHY 642095  
**Entity where project took place:** Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 1  
**Funding entity or bodies:**  
European Comission  
**Start date:** 01/2015 **Duration:** 4 years - 7 months  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 449.634,68 €
- 16** **Name of the project:** Ajuts a la recerca per grups d'investigació – SGR 857  
**Entity where project took place:** Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 1  
**Funding entity or bodies:**  
AGAUR



**Start date:** 01/2014

**Duration:** 3 years - 11 months

**Participating entity/entities:** Centro de Regulación Genómica

**Total amount:** 24.000 €

- 17 Name of the project:** ITN-ImResFun. Molecular Mechanisms of Fungal Pathogen Host Interaction. PITN-GA-2013-606786

**Entity where project took place:** Centro de Regulación Genómica

**Type of entity:** University Centres and Structures and Associated Bodies

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Nº of researchers:** 1

**Funding entity or bodies:**

European Commission

**Start date:** 10/2013

**Duration:** 3 years - 11 months

**Participating entity/entities:** Centro de Regulación Genómica

**Total amount:** 220.878 €

- 18 Name of the project:** BIO2012-37161. Genómica y Transcriptómica comparativa de hongos patógenos

**Entity where project took place:** Centro de Regulación Genómica

**Type of entity:** University Centres and Structures and Associated Bodies

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Nº of researchers:** 1

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Start date:** 01/2013

**Duration:** 3 years

**Participating entity/entities:** Centro de Regulación Genómica

**Total amount:** 181.350 €

- 19 Name of the project:** NONCODEVOL-Evolutionary genomics of long, non-coding RNAs

**Entity where project took place:** Centro de Regulación Genómica

**Type of entity:** University Centres and Structures and Associated Bodies

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Nº of researchers:** 3

**Funding entity or bodies:**

European Commission (ERC Starting Grants)

**Start date:** 01/2013

**Duration:** 4 years - 11 months

**Participating entity/entities:** Centro de Regulación Genómica

**Total amount:** 1.302.113 €

- 20 Name of the project:** Improved Diagnostics of Fungi-related Infections in Qatar - QNRF-HMC 004276

**Entity where project took place:** Centro de Regulación Genómica

**Type of entity:** University Centres and Structures and Associated Bodies

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón (Consortium Coordinator: Dr. Teun)

**Nº of researchers:** 2

**Funding entity or bodies:**

Qatar National Research Fund (QNRF)

**Start date:** 11/2012

**Duration:** 2 years - 11 months

**Participating entity/entities:** CBS Hamad Medical Corporation; Centro de Regulación Genómica

**Total amount:** 12.086 €



- 21 Name of the project:** ProcoGen: Promoting a functional and Comparative understanding of the conifer genome- implementing applied aspects for more productive and adapted forests (EU- FP7-KBBE (289841)  
**Entity where project took place:** Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 2  
**Funding entity or bodies:** European Union  
**Start date:** 01/2012 **Duration:** 3 years - 11 months  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 48.600 €
- 22 Name of the project:** BFU2009-09168. Aplicación de la genómica comparativa al descubrimiento de nuevos genes implicados en enfermedades relacionadas con orgánulos: la mitocondria y el peroxisoma.  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 4  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación  
**Start date:** 01/2010 **Duration:** 2 years - 11 months  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 157.300 €
- 23 Name of the project:** Identification of apoptosis-related oncogenes and tumor suppressors through an evolutionary context-based approach. 08-0621  
**Name principal investigator (PI, Co-PI....):** Cristina Muñoz-Pinedo  
**Nº of researchers:** 4  
**Funding entity or bodies:** AICR- Association for Internacional Cancer Research  
**Start date:** 10/2008 **Duration:** 2 years  
**Participating entity/entities:** CRG-IDIBELL  
**Total amount:** 53,38 €
- 24 Name of the project:** Técnicas computacionales basadas en contexto genómico para la identificación y asignación funcional de genes implicados en enfermedades. CP06/00213  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 1  
**Funding entity or bodies:** Instituto de Salud Carlos III  
**Start date:** 10/2007 **Duration:** 3 years  
**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 30.000 €
- 25 Name of the project:** Genomic approaches to unravel the molecular mechanisms of pathogenicity in the human fungal pathogen *Candida glabrata* (FUNPATH). GEN2006/27784E/PAT  
**Name principal investigator (PI, Co-PI....):** Toni Gabaldón  
**Nº of researchers:** 2  
**Funding entity or bodies:** MEC- ERA-NET PATHOGENOMICS  
**Start date:** 03/2007 **Duration:** 3 years





**Participating entity/entities:** Centro de Regulación Genómica  
**Total amount:** 151.244 €

**26 Name of the project:** Distribución de la selección natural ancestral y reciente en el genoma humano. Patrones evolutivos e implicaciones biomédicas. MEC-BFU2006-15413-C02-02

**Name principal investigator (PI, Co-PI....):** Hernán Dopazo y Arcadi Navarro

**N° of researchers:** 6

**Funding entity or bodies:**

Ministerio de Educación, Política Social y Deporte      **Type of entity:** State agency

**Start date:** 2006

**Duration:** 2 years

**Participating entity/entities:** CIPF; Universitat Pompeu Fabra

**Total amount:** 90.000 €

**27 Name of the project:** "CIMES: Ciliates as monitors for Environmental Safety of Gmo"

**Name principal investigator (PI, Co-PI....):** Johannes Hackstein

**Funding entity or bodies:**

Union Europea (FP5)

**Start date:** 01/10/2004

**Duration:** 1 year - 15 days

**28 Name of the project:** "EUMitoCombat (Rational Treatment Strategies Combating Mitochondrial Oxidative Phosphorylation (OXPHOS) Disorders)"

**Name principal investigator (PI, Co-PI....):** Jan Smeitink

**Funding entity or bodies:**

Union Europea (FP6)

**Start date:** 01/01/2002

**Duration:** 3 years - 9 months - 15 days

**29 Name of the project:** "Integrating homology and genomic association for pathway prediction from genome sequences"

**Name principal investigator (PI, Co-PI....):** Martijn A. Huynen

**Funding entity or bodies:**

NWO (Nederlandse Wetenschap Organisatie)

**Start date:** 16/10/2001

**Duration:** 4 years

## R&D non-competitive contracts, agreements or projects with public or private entities

**1 Name of the project:** Biodegradación de microplásticos

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Funding entity or bodies:**

Repsol YPF, S.A.

**Type of entity:** Business

**Start date:** 09/2021

**Duration:** 4 months

**Total amount:** 49.743 €

**2 Name of the project:** Secuenciación del genoma del Olivo (Olea europaea)

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Funding entity or bodies:**

BANCO SANTANDER, S.A.

**Start date:** 01/2014

**Duration:** 3 years



**Total amount:** 130.698 €

**3 Name of the project:** Primera secuenciación completa del ADN del olivo

**Degree of contribution:** convenio

**Name principal investigator (PI, Co-PI....):** Toni Gabaldón

**Nº of researchers:** 1

**Participating entity/entities:** Centro de Regulación Genómica

**Funding entity or bodies:**

Banco Santander

**Start date:** 07/2013

**Duration:** 3 years

**Total amount:** 130.680 €

## Results

### Industrial and intellectual property

**Title registered industrial property:** Method for screening for colorectal cancer using fecal microbiome profiling

**Type of industrial property:** Patent of invention

**Inventors/authors/obtainers:** Gabaldón Estevan PI; Olfat Khannous; Ester Saus; Sergi Castellví

**Entity holder of rights:** Barcelona Supercomputing Center

**Nº of application:** EP2217947)

**Country of inscription:** Spain, Catalonia

**Date of register:** 17/06/2022

**Nº of patent:** 1

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Lisa du Toit; Ifeoma Offiah; Alvaro Redondo-Rio; Tanya Kahawita; Michele Kiernan; Yen Ming Lin; Louise Belfield; Gemma Montagut; Alicia Benavente; Tomas Nicholas; Amazon Doble; Renske Dikkers; Robert Freeman; Toni Gabaldón; Zoe Brookes; Raul Bescos. A pilot and feasibility study investigating the abundance and activity of nitrate-reducing bacteria in women with pre-eclampsia. Pregnancy Hypertension. 39, 2025. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85214802332&doi=10.1016%2fj.preghy.2025.101188&partnerID=40&md5=e98dbfbc2e27aab7f90041bde2dbb64>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 14

**Total no. authors:** 16

- 2** Valentina del Olmo; Álvaro Redondo-Río; Alicia Benavente García; Savitree Limtong; Ester Saus; Toni Gabaldón. Insights into the origin, hybridisation and adaptation of Candida metapsilosis hybrid pathogens. PLoS Pathogens. 21 - 1, 2025. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85215250629&doi=10.1371%2fjournal.ppat.1012864&partnerID=40&md5=64e25b6e16bb8080ad8f1b9271a6c24>>

**Type of production:** Scientific paper

**Format:** Journal



**Position of signature:** 6

**Total no. authors:** 6

- 3** R. Bescos; L. du Toit; A. Redondo-Río; P.J. Warburton; T.L. Nicholas; M. Kiernan; R.A. Burton; L. Belfield; G. Montagut; A. Benavente; W. Vevers; T. Gabaldón; Z. Brookes; P. Casas-Agustench. The comparative effect of propolis and chlorhexidine mouthwash on oral nitrite-producing bacteria and blood pressure regulation. *Journal of Oral Microbiology*. 17 - 1, 2025. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85212496872&doi=10.1080%2f20002297.2024.2439636&partnerID=40&md5=f9d19abe0943814c10fd0c7b8e1a6>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 12

**Total no. authors:** 14

- 4** V. Mixão; E. Saus; F. Hagen; T. Boekhout; R.W. Stevens; T. Gabaldón. A yeast love triangle: multiple hybridizations shape genome evolution in the *Pichia cactophila* species complex. *Mycosphere*. 15 - 1, pp. 1083 - 1109 - 1083 - 1109. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85209088014&doi=10.5943%2fMYCOSPHERE%2f15%2f1%2f9&partnerID=40&md5=92c123886f7577fbc6752f243ef5a5be>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 6

**Total no. authors:** 6

- 5** Hans Carolus; Dimitrios Sofras; Giorgio Boccarella; Poppy Sephton-Clark; Vladislav Biriukov; Nicholas C. Cauldron; Celia Lobo Romero; Rudy Vergauwen; Saleh Yazdani; Siebe Pierson; Stef Jacobs; Paul Vandecruys; Stefanie Wijnants; Jacques F. Meis; Toni Gabaldón; Pieter van den Berg; Jeffrey M. Rybak; Christina A. Cuomo; Patrick Van Dijck. Acquired amphotericin B resistance leads to fitness trade-offs that can be mitigated by compensatory evolution in *Candida auris*. *Nature Microbiology*. 9 - 12, pp. 3304 - 3320 - 3304 - 3320. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85209633770&doi=10.1038%2fs41564-024-01854-z&partnerID=40&md5=2144b230a6c87f17f5375c44d1229580>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 15

**Total no. authors:** 19

- 6** Allorie T. Caldwell; Toni Gabaldón; Verónica Mixão; Nancy L. Wengenack; Benjamin P. Westley; Ryan W. Stevens. An inconspicuous identification: Isolation and identification of a novel *Pichia* species presenting as fungemia following cardiac surgery. *International Journal of Infectious Diseases*. 143, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191299106&doi=10.1016%2fj.ijid.2024.107040&partnerID=40&md5=b819876fd3e1b91bd2cc4710eb3998e9>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 2

**Total no. authors:** 6

- 7** I. Ahaik; J.C. Nunez-Rodríguez; J. Abrini; S. Bouhdid; T. Gabaldón. Assessing Diagnosis of *Candida* Infections: A Study on Species Prevalence and Antifungal Resistance in Northern Morocco. *Journal of Fungi*. 10 - 6, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85197145339&doi=10.3390%2fjof10060373&partnerID=40&md5=a8c8c49de8e1de0429d43d26d006d1b4>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 5

**Total no. authors:** 5

- 8** Marina Marcet-Houben; Ewa Książopolska; Toni Gabaldón. Chromosome level assemblies of *Nakaseomyces (Candida) bracarensis* uncover two distinct clades and define its adhesin repertoire. *BMC Genomics*. 25 - 1, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85208735481&doi=10.1186%2fs12864-024-10979-8&partnerID=40&md5=87d559e154b6590849dbb336b4b7774>>

**Type of production:** Scientific paper

**Format:** Journal



**Position of signature:** 3

**Total no. authors:** 3

- 9** Hans Carolus; Dimitrios Sofras; Giorgio Boccarella; Stef Jacobs; Vladislav Biriukov; Louise Goossens; Alicia Chen; Ina Vantuyghem; Tibo Verbeeck; Siebe Pierson; Celia Lobo Romero; Hans Steenackers; Katrien Lagrou; Pieter van den Berg; Judith Berman; Toni Gabaldón; Patrick Van Dijk. Collateral sensitivity counteracts the evolution of antifungal drug resistance in *Candida auris*. *Nature Microbiology*. 9 - 11, pp. 2954 – 2969 - 2954 – 2969. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85208161484&doi=10.1038%2fs41564-024-01811-w&partnerID=40&md5=1a332a9246b88cbbb6a6bb5e8d0d1b39>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 16

**Total no. authors:** 17

- 10** David Bars-Cortina; Elies Ramon; Blanca Rius-Sansalvador; Elisabet Guinó; Ainhoa Garcia-Serrano; Núria Mach; Olfat Khannous-Lleiffe; Ester Saus; Toni Gabaldón; Gemma Ibáñez-Sanz; Lorena Rodríguez-Alonso; Alfredo Mata; Ana García-Rodríguez; Mireia Obón-Santacana; Víctor Moreno. Comparison between 16S rRNA and shotgun sequencing in colorectal cancer, advanced colorectal lesions, and healthy human gut microbiota. *BMC Genomics*. 25 - 1, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200002041&doi=10.1186%2fs12864-024-10621-7&partnerID=40&md5=36347320263e9e57f9a98807ef3b7fe0>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 9

**Total no. authors:** 15

- 11** Toni Gabaldón; Luiz Pedro Sório de Carvalho. Editorial overview: emerging avenues in antimicrobial research. *Current Opinion in Microbiology*. 81, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200559855&doi=10.1016%2fj.mib.2024.102522&partnerID=40&md5=4015fe913b8daca32a9e29cd5890ca72>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 1

**Total no. authors:** 2

- 12** Marina Marcet-Houben; Fernando Cruz; Jéssica Gómez-Garrido; Tyler S. Alioto; Juan Carlos Nunez-Rodriguez; Nebai Mesanza; Marta Gut; Eugenia Iturriza; Toni Gabaldon. Genomics of the expanding pine pathogen *Lecanosticta acicola* reveals patterns of ongoing genetic admixture. *mSystems*. 9 - 3, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188111313&doi=10.1128%2fmSystems.00928-23&partnerID=40&md5=720e9bbc0f0a4d44bec8b7bb773749c8>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 9

**Total no. authors:** 9

- 13** Valentina del Olmo; Toni Gabaldón. Hybrids unleashed: exploring the emergence and genomic insights of pathogenic yeast hybrids. *Current Opinion in Microbiology*. 80, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85194941235&doi=10.1016%2fj.mib.2024.102491&partnerID=40&md5=33979420da83d0320c5f01e0964e16ad>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 2

**Total no. authors:** 2

- 14** Ewa Ksiezopolska; Miquel Àngel Schikora-Tamarit; Juan Carlos Nunez-Rodriguez; Toni Gabaldón. Long-term stability of acquired drug resistance and resistance associated mutations in the fungal pathogen *Nakaseomyces glabratus* (*Candida glabrata*). *Frontiers in Cellular and Infection Microbiology*. 14, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199969584&doi=10.3389%2ffcimb.2024.1416509&partnerID=40&md5=625c055522947693c3d58d1c1995ffe>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 4

**Total no. authors:** 4

- 15** Moisés Bernabeu; Saioa Manzano-Morales; Toni Gabaldón. On the impact of incomplete taxon sampling on the relative timing of gene transfer events. *PLoS Biology*. 22 - 3, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188048281&doi=10.1371%2fjournal.pbio.3002460&partnerID=40&md5=88aa4a950856583f24256c15e811fe04>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 3

- 16** Elies Ramon; Mireia Obón-Santacana; Olfat Khannous-Lleiffe; Ester Saus; Toni Gabaldón; Elisabet Guinó; David Bars-Cortina; Gemma Ibáñez-Sanz; Lorena Rodríguez-Alonso; Alfredo Mata; Ana García-Rodríguez; Victor Moreno. Performance of a Shotgun Prediction Model for Colorectal Cancer When Using 16S rRNA Sequencing Data. *International Journal of Molecular Sciences*. 25 - 2, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183218941&doi=10.3390%2fijms25021181&partnerID=40&md5=ec964669ac5f4d12bb29e443a0a61af8>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 5

**Total no. authors:** 12

- 17** Jacob L. Steenwyk; Gemma I. Martínez-Redondo; Thomas J. Buida; Emile Gluck-Thaler; Xing-Xing Shen; Toni Gabaldón; Antonis Rokas; Rosa Fernández. PhyKIT: A Multitool for Phylogenomics. *Current Protocols*. 4 - 11, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85208116627&doi=10.1002%2fcpz1.70016&partnerID=40&md5=738ed8f54ce260c2635f6f4684175640>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 6

**Total no. authors:** 8

- 18** Francisco Pisciotano; María Clara Campos; Clementina Penna; Carlos David Bruque; Toni Gabaldón; Patricia Saragüeta. Positive selection in gamete interaction proteins in Carnivora. *Molecular Ecology*. 33 - 5, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184269580&doi=10.1111%2fmec.17263&partnerID=40&md5=021159bfa794616d9dcee37a69baba9f>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 5

**Total no. authors:** 6

- 19** Uciel Chorostecki; Ester Saus; Toni Gabaldón. Probing RNA structural landscapes across *Candida* yeast genomes. *Frontiers in Microbiology*. 15, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85187189536&doi=10.3389%2ffmicb.2024.1362067&partnerID=40&md5=91b9975a997d66e6633667d6e625a8c>>

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 3

- 20** Simon Feys; Martina Cardinali-Benigni; Hanne Moon Lauwers; Cato Jacobs; Annelies Stevaert; Samuel M. Gonçalves; Cristina Cunha; Yves Debaveye; Greet Hermans; Jannes Heylen; Stephanie Humblet-Baron; Katrien Lagrou; Lenn Maessen; Philippe Meersseman; Marijke Peetermans; Alvaro Redondo-Rios; Laura Seldeslachts; Marick R. Starick; Karin Thevissen; Greetje Vande Velde; Christophe Vandenbrielle; Lore Vanderbeke; Alexander Wilmer; Lieve Naesens; Frank L. van de Veerdonk; Johan Van Weyenbergh; Toni Gabaldón; Joost Wauters; Agostinho Carvalho. Profiling Bacteria in the Lungs of Patients with Severe Influenza Versus COVID-19 with or without Aspergillosis. *American Journal of Respiratory and Critical Care Medicine*. 210 - 10, pp. 1230 - 1242 - 1230 - 1242. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85202337504&doi=10.1164%2frccm.202401-0145OC&partnerID=40&md5=bb3729c5bc8a5e6237aa0b6db7f6f81>>

**Type of production:** Scientific paper

**Format:** Journal



**Position of signature:** 27

**Total no. authors:** 29

- 21** Laura Asensio-Puig; Álvaro de Andrés-Pablo; Olfat Khannous-Lleiffe; Raquel Ibáñez; Amelia Acera; Silvia de Sanjosé; Toni Gabaldón; Laia Alemany; Laia Bruni; Miquel Àngel Pavón. Proof of Concept Study: Comparability of Microbiome Diversity in Self- and Physician-Collected HPV-Positive and HPV-Negative Cervicovaginal Samples. *International Journal of Molecular Sciences*. 25 - 11, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195879382&doi=10.3390%2fijms25115736&partnerID=40&md5=95d17a54cecf9bad18da59593a65fcb>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 7

**Total no. authors:** 10

- 22** Felix Langschied; Nicola Bordin; Salvatore Cosentino; Diego Fuentes-Palacios; Natasha Glover; Michael Hiller; Yanhui Hu; Jaime Huerta-Cepas; Luis Pedro Coelho; Wataru Iwasaki; Sina Majidian; Saioa Manzano-Morales; Emma Persson; Thomas A. Richards; Toni Gabaldón; Erik Sonnhammer; Paul D. Thomas; Christophe Dessimoz; Ingo Ebersberger. Quest for Orthologs in the Era of Biodiversity Genomics. *Genome Biology and Evolution*. 16 - 10, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85208099282&doi=10.1093%2fgeb%2fevae224&partnerID=40&md5=acbb0365ba6d65e99d108eaf0f76aaf7>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 15

**Total no. authors:** 19

- 23** Miquel Àngel Schikora-Tamarit; Toni Gabaldón. Recent gene selection and drug resistance underscore clinical adaptation across *Candida* species. *Nature Microbiology*. 9 - 1, pp. 284 – 307 - 284 – 307. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85181385001&doi=10.1038%2fs41564-023-01547-z&partnerID=40&md5=4ea4c242ecf38efeb661d3eefaa4adfd>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 2

**Total no. authors:** 2

- 24** Thomas A. Richards; Laura Eme; John M. Archibald; Guy Leonard; Susana M. Coelho; Alex de Mendoza; Christophe Dessimoz; Pavel Dolezal; Lillian K. Fritz-Laylin; Toni Gabaldón; Vladimír Hampl; Geert J.P.L. Kops; Michelle M. Leger; Purificación Lopez-García; James O. McInerney; David Moreira; Sergio A. Muñoz-Gómez; Daniel J. Richter; Iñaki Ruiz-Trillo; Alyson E. Santoro; Arnau Sebé-Pedrós; Berend Snel; Courtney W. Stairs; Eelco C. Tromer; Jolien J.E. van Hooff; Bill Wickstead; Tom A. Williams; Andrew J. Roger; Joel B. Dacks; Jeremy G. Wideman. Reconstructing the last common ancestor of all eukaryotes. *PLoS Biology*. 22 - 11, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85210733849&doi=10.1371%2fjournal.pbio.3002917&partnerID=40&md5=97d3be7d9371ebdb1128c4758a3d23a>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 10

**Total no. authors:** 30

- 25** Marco Garelo; Edoardo Piombo; Fabio Buonsenso; Simona Prencipe; Silvia Valente; Giovanna Roberta Meloni; Marina Marcet-Houben; Toni Gabaldón; Davide Spadaro. Several secondary metabolite gene clusters in the genomes of ten *Penicillium* spp. raise the risk of multiple mycotoxin occurrence in chestnuts. *Food Microbiology*. 122, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189977398&doi=10.1016%2fj.fm.2024.104532&partnerID=40&md5=cb6576cc685d349123e064271b5369ad>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 8

**Total no. authors:** 9





26

Carlos Lax; Stephen J. Mondo; Macario Osorio-Concepción; Anna Muszewska; María Corrochano-Luque; Gabriel Gutiérrez; Robert Riley; Anna Lipzen; Jie Guo; Hope Hundley; Mojgan Amirebrahimi; Vivian Ng; Damaris Lorenzo-Gutiérrez; Ulrike Binder; Junhuan Yang; Yuanda Song; David Cánovas; Eusebio Navarro; Michael Freitag; Toni Gabaldón; Igor V. Grigoriev; Luis M. Corrochano; Francisco E. Nicolás; Victoriano Garre. Symmetric and asymmetric DNA N6-adenine methylation regulates different biological responses in Mucorales. *Nature Communications*. 15 - 1, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199063414&doi=10.1038%2fs41467-024-50365-2&partnerID=40&md5=d07a09e46791d8cb5e94e6a2e2d10e>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 20**Total no. authors:** 24

27

Montserrat Corominas; Tomàs Marquès-Bonet; Miquel A. Arnedo; Mònica Bayés; Jordina Belmonte; Hector Escrivà; Rosa Fernández; Toni Gabaldón; Teresa Garnatje; Josep Germain; Manel Niell; Ferran Palero; Joan Pons; Pere Puigdomènech; Cristian Cuevas-Caballé; Joan Ferrer Obiol; Ivo Gut; Marta Gut; Oriane Hidalgo; Guillem Izquierdo-Aránega; Laia Pérez-Sorribes; Emilio Righi; Marta Riutort; Joan Vallès; Julio Rozas; Tyler Alioto; Roderic Guigó. The Catalan initiative for the Earth BioGenome Project: contributing local data to global biodiversity genomics. *NAR Genomics and Bioinformatics*. 6 - 3, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199215757&doi=10.1093%2fnargab%2flqae075&partnerID=40&md5=b855e604b5b1c8e6ef09b4e23bf6303a>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 9**Total no. authors:** 27

28

Robert M. Waterhouse; Anne-Françoise Adam-Blondon; Bachir Balech; Endre Barta; Physilia Ying Shi Chua; Valeria Di Cola; Katharina F. Heil; Graham M. Hughes; Lars S. Jermiin; Matúš Kalaš; Jerry Lanfear; Evangelos Pafilis; Patricia M. Palagi; Aristotelis C. Papageorgiou; Joana Paupério; Fotis Psomopoulos; Niels Raes; Josephine Burgin; Toni Gabaldón. The ELIXIR Biodiversity Community: Understanding short- and long-term changes in biodiversity. *F1000Research*. 12, 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85196302792&doi=10.12688%2ff1000research.133724.2&partnerID=40&md5=20d75c7f4b786ed62cc3692274c1>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 19**Total no. authors:** 19

29

Lisa du Toit; Michaela L Sundqvist; Alvaro Redondo-Rio; Zöe Brookes; Patricia Casas-Agustench; Mary Hickson; Alicia Benavente; Gemma Montagut; Eddie Weitzberg; Toni Gabaldón; Jon O Lundberg; Raul Bescos. The Effect of Dietary Nitrate on the Oral Microbiome and Salivary Biomarkers in Individuals with High Blood Pressure. *Journal of Nutrition*. 154 - 9, pp. 2696 - 2706 - 2696 - 2706. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200120064&doi=10.1016%2fj.tjnut.2024.07.002&partnerID=40&md5=8f6f852afd808e2bf6dad273b8d25d48>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 10**Total no. authors:** 12

30

Toni Gabaldón. Threats from the *Candida parapsilosis* complex: the surge of multidrug resistance and a hotbed for new emerging pathogens. *Microbiology and molecular biology reviews* : MMBR. 88 - 4, pp. e0002923 - e0002923. 2024. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213491712&doi=10.1128%2fmmb.00029-23&partnerID=40&md5=e0d34ceec021ca21a95685a8019961a2>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 1



- 31** E. Aydın; E. Saus; U. Chorostecki; T. Gabaldón. A hybrid approach to assess the structural impact of long noncoding RNA mutations uncovers key NEAT1 interactions in colorectal cancer. *IUBMB Life*. 75 - 7, pp. 566 - 579. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150996572&doi=10.1002%2fiub.27110&partnerID=40&md5=3dd889bf30f6682e08b507d74c19dc33>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 4  
**Total no. authors:** 4
- 32** A.I. Hafez; B. Soriano; A.A. Elsayed; R. Futami; R. Ceprian; R. Ramos-Ruiz; G. Martinez; F.J. Roig; M.A. Torres-Font; F. Naya-Catala; J.A. Calduch-Giner; L. Trilla-Fuertes; A. Gamez-Pozo; V. Arnau; J.M. Sempere-Luna; J. Perez-Sanchez; T. Gabaldon; C. Llorens. Client Applications and Server-Side Docker for Management of RNASeq and/or VariantSeq Workflows and Pipelines of the GPRO Suite. *Genes*. 14 - 2, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148864227&doi=10.3390%2fgenes14020267&partnerID=40&md5=3598f31e201a689ef59f91422acc3a16>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 17  
**Total no. authors:** 18
- 33** M. Marcet-Houben; I. Collado-Cala; D. Fuentes-Palacios; A.D. Gómez; M. Molina; A. Garisoain-Zafra; U. Chorostecki; T. Gabaldón. EvolClustDB: Exploring Eukaryotic Gene Clusters with Evolutionarily Conserved Genomic Neighbourhoods. *Journal of Molecular Biology*. 435 - 14, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149847171&doi=10.1016%2fj.jmb.2023.168013&partnerID=40&md5=7a731387fb169a4f0c020e959a71294a>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 8
- 34** V. Mixão; J.C. Nunez-Rodriguez; V. del Olmo; E. Ksiezopolska; E. Saus; T. Boekhout; A. Gacser; T. Gabaldón. Evolution of loss of heterozygosity patterns in hybrid genomes of *Candida* yeast pathogens. *BMC Biology*. 21 - 1, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159193928&doi=10.1186%2fs12915-023-01608-z&partnerID=40&md5=903735121ae4f6976cde063881432caa>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 8
- 35** K. Theissinger; C. Fernandes; G. Formenti; I. Bista; P.R. Berg; C. Bleidorn; A. Bombarely; A. Crottini; G.R. Gallo; J.A. Godoy; S. Jentoft; J. Malukiewicz; A. Mouton; R.A. Oomen; S. Paez; P.J. Palsbøll; C. Pampoulie; M.J. Ruiz-López; S. Secomandi; H. Svardal; C. Theofanopoulou; J. de Vries; A.-M. Waldvogel; G. Zhang; E.D. Jarvis; M. Bálint; C. Ciofi; R.M. Waterhouse; C.J. Mazzoni; J. Höglund; S.A. Aghayan; T.S. Alioto; I. Almudi; N. Alvarez; P.C. Alves; I.R. Amorim do Rosario; A. Antunes; P. Arribas; P. Baldrian; G. Bertorelle; A. Böhne; A. Bonisoli-Alquati; L.L. Boštjančić; B. Boussau; C.M. Breton; E. Buzan; P.F. Campos; C. Carreras; L.F.C. Castro; L.J. Chueca; F. Čiampor; E. Conti; R. Cook-Deegan; D. Croll; M.V. Cunha; F. Delsuc; A.B. Dennis; D. Dimitrov; R. Faria; A. Favre; O.D. Fedrigo; R. Fernández; G.F. Ficetola; J.-F. Flot; T. Gabaldón; D.R. Agius; A.M. Giani; M.T.P. Gilbert; T. Grebenc; K. Guschanski; R. Guyot; B. Hausdorf; O. Hawlitschek; P.D. Heintzman; B. Heinze; M. Hiller; M. Husemann; A. Iannucci; I. Irisarri; K.S. Jakobsen; P. Klinga; A. Kloch; C.F. Kratochwil; H. Kusche; K.K.S. Layton; J.A. Leonard; E. Lerat; G. Liti; T. Manousaki; T. Marques-Bonet; P. Matos-Maraví; M. Matschiner; F. Maumus; A.M. Mc Cartney; S. Meiri; J. Melo-Ferreira; X. Mengual; M.T. Monaghan; M. Montagna; R.W. Mysłajek; M.T. Neiber; V. Nicolas; M. Novo; P. Ozretić; F. Palero; L. Pârvulescu; M. Pascual; O.S. Paulo; M. Pavlek; C. Pegueroles; L. Pellissier; G. Pesole; C.R. Primmer; A. Riesgo; L. Rüber; D. Rubolini; D. Salvi; O. Seehausen; M. Seidel; B. Studer; S. Theodoridis; M. Thines; L. Urban; A. Vasemägi; A. Vella; N. Vella; S.C. Vernes; C. Vernesi; D.R. Vieites; C.W. Wheat; G. Wörheide; Y. Wurm; G. Zammit. How genomics can help biodiversity conservation. *Trends in Genetics*. 39 - 7, pp. 545 - 559. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148377777&doi=10.1016%2fj.tig.2023.01.005&partnerID=40&md5=6d041780143f07c4d7d5584774dab979>>.  
**Type of production:** Scientific paper **Format:** Journal

**Position of signature:** 65

**Total no. authors:** 133

- 36** M. Schiavinato; V. del Olmo; V.N. Muya; T. Gabaldón. JLOH: Inferring loss of heterozygosity blocks from sequencing data. *Computational and Structural Biotechnology Journal*. 21, pp. 5738 - 5750. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85177767786&doi=10.1016%2fj.csbj.2023.11.003&partnerID=40&md5=7e6daa6d8c687576948e4cc5431a5d1d>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 4
- Total no. authors:** 4
- 37** O. Khannous-Lleiffe; J.R. Willis; E. Saus; V. Moreno; S. Castellví-Bel; T. Gabaldón. Microbiome Profiling from Fecal Immunochemical Test Reveals Microbial Signatures with Potential for Colorectal Cancer Screening. *Cancers*. 15 - 1, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145998803&doi=10.3390%2fcancers15010120&partnerID=40&md5=819c10aee98ecdac0e95d0f143c0040>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 6
- Total no. authors:** 6
- 38** H. Hovhannisyan; A. Rodríguez; E. Saus; M. Vaneechoutte; T. Gabaldón. Multiplexed target enrichment of coding and non-coding transcriptomes enables studying *Candida* spp. infections from human derived samples. *Frontiers in Cellular and Infection Microbiology*. 13, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147411812&doi=10.3389%2fcimb.2023.1093178&partnerID=40&md5=94fbe087ebbaeb0ee7df4e87fe45e250>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 5
- Total no. authors:** 5
- 39** T. Gabaldón. Nothing makes sense in drug resistance except in the light of evolution. *Current Opinion in Microbiology*. 75, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85162186217&doi=10.1016%2fj.mib.2023.102350&partnerID=40&md5=e59a30c86988b4d1d671410e4c54ec47>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 1
- Total no. authors:** 1
- 40** V. del Olmo; V. Mixão; R. Fotedar; E. Saus; A. Al Malki; E. Książopolska; J.C. Nunez-Rodriguez; T. Boekhout; T. Gabaldón. Origin of fungal hybrids with pathogenic potential from warm seawater environments. *Nature Communications*. 14 - 1, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85175580267&doi=10.1038%2fs41467-023-42679-4&partnerID=40&md5=2d6c19e2a8bb840246a662769949efc>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 9
- Total no. authors:** 9
- 41** A. Arastehfar; F. Daneshnia; H. Hovhannisyan; D. Fuentes; N. Cabrera; C. Quinteros; M. Ilkit; N. Ünal; S. Hilmioğlu-Polat; K. Jabeen; S. Zaka; J.V. Desai; C. Lass-Flörl; E. Shor; T. Gabaldon; D.S. Perlin. Overlooked *Candida glabrata* petites are echinocandin tolerant, induce host inflammatory responses, and display poor in vivo fitness. *mBio*. 14 - 5, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176789263&doi=10.1128%2fmbio.01180-23&partnerID=40&md5=cf1854d34563d4b294c3ba2172b8c8a0>>
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 15
- Total no. authors:** 16

**42**

I. Julca; P. Vargas; T. Gabaldón. Phylogenomics of the *Olea europaea* complex using 15 whole genomes supports recurrent genetic admixture together with differentiation into seven subspecies. *BMC Biology*. 21 - 1, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85152662699&doi=10.1186%2fs12915-023-01583-5&partnerID=40&md5=2713f32222cafe4893829dfb4bd65207>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 3**43**

F. Marlétaz; E. de la Calle-Mustienes; R.D. Acemel; C. Paliou; S. Naranjo; P.M. Martínez-García; I. Cases; V.A. Sleight; C. Hirschberger; M. Marcet-Houben; D. Navon; A. Andrescavage; K. Skvortsova; P.E. Duckett; Á. González-Rajal; O. Bogdanovic; J.H. Gibcus; L. Yang; L. Gallardo-Fuentes; I. Sospedra; J. Lopez-Rios; F. Darbellay; A. Visel; J. Dekker; N. Shubin; T. Gabaldón; T. Nakamura; J.J. Tena; D.G. Lupiáñez; D.S. Rokhsar; J.L. Gómez-Skarmeta. The little skate genome and the evolutionary emergence of wing-like fins. *Nature*. 616 - 7957, pp. 495 - 503. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85152357143&doi=10.1038%2fs41586-023-05868-1&partnerID=40&md5=0814daedb4a89f601dd3cf70abf6e4ea>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 26**Total no. authors:** 31**44**

M. Rodi; C. Gross; T.L. Sandri; L. Berner; M. Marcet-Houben; E. Kocak; M. Pogoda; N. Casadei; C. Köhler; A. Kreidenweiss; S.T. Agnandji; T. Gabaldón; S. Ossowski; J. Held. Whole genome analysis of two sympatric human *Mansonella*: *Mansonella perstans* and *Mansonella* sp “DEUX”. *Frontiers in Cellular and Infection Microbiology*. 13, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85156228612&doi=10.3389%2ffcimb.2023.1159814&partnerID=40&md5=9a48f739e2a523e190f19647893aeef5>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 12**Total no. authors:** 14**45**

F. Daneshnia; S. Hilmioğlu-Polat; M. Ilkit; D. Fuentes; L. Lombardi; U. Binder; J. Scheler; F. Hagen; M.K. Mansour; G. Butler; C. Lass-Flörl; T. Gabaldon; A. Arastehfar. Whole-genome sequencing confirms a persistent candidaemia clonal outbreak due to multidrug-resistant *Candida parapsilosis*. *Journal of Antimicrobial Chemotherapy*. 78 - 6, pp. 1488 - 1494. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160965935&doi=10.1093%2fjac%2fdkad112&partnerID=40&md5=f9f26d41a854b43d5020c8bccff59114>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 12**Total no. authors:** 13**46**

F. Daneshnia; J.N. de Almeida Júnior; M. Ilkit; L. Lombardi; A.M. Perry; M. Gao; C.J. Nobile; M. Egger; D.S. Perlin; B. Zhai; T.M. Hohl; T. Gabaldón; A.L. Colombo; M. Hoenig; A. Arastehfar. Worldwide emergence of fluconazole-resistant *Candida parapsilosis*: current framework and future research roadmap. *The Lancet Microbe*. 4 - 6, pp. e470 - e480. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161060910&doi=10.1016%2fS2666-5247%2823%2900067-8&partnerID=40&md5=fd007ded22711688978747>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 12**Total no. authors:** 15**47**

D. Logviniuk; Q.Z. Jaber; R. Dobrovetsky; N. Kozler; E. Ksiezopolska; T. Gabaldón; S. Carmeli; M. Fridman. Benzyllic Dehydroxylation of Echinocandin Antifungal Drugs Restores Efficacy against Resistance Conferred by Mutated Glucan Synthase. *Journal of the American Chemical Society*. 144 - 13, pp. 5965 - 5975. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127905721&doi=10.1021%2fjacs.2c00269&partnerID=40&md5=3347d8833a7c72f81c5ae371770358c4>>

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 6**Total no. authors:** 8





- 48** A. Arastehfar; N. Ünal; T. Hoşbul; M. Alper ◆-zarşlan; A. Sultan Karakoyun; F. Polat; D. Fuentes; R. Gümrall; T. Turunç; F. Daneshnia; D.S. Perlin; C. Lass-Flörl; T. Gabaldón; M. Ilkit; M.H. Nguyen. Candidemia among Coronavirus Disease 2019 Patients in Turkey Admitted to Intensive Care Units: A Retrospective Multicenter Study. *Open Forum Infectious Diseases*. 9 - 4, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85128518911&doi=10.1093%2foid%2fac078&partnerID=40&md5=afccdf2c88bb505e8878fb841fbc292c>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 13  
**Total no. authors:** 15
- 49** L. Domènech; J. Willis; M. Alemany-Navarro; M. Morell; E. Real; G. Escaramís; S. Bertolín; D. Sánchez Chinchilla; S. Balcells; C. Segalàs; X. Estivill; J.M. Menchón; T. Gabaldón; P. Alonso; R. Rabionet. Changes in the stool and oropharyngeal microbiome in obsessive-compulsive disorder. *Scientific Reports*. 12 - 1, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123815288&doi=10.1038%2fs41598-022-05480-9&partnerID=40&md5=c6da438d18b87b8358d74bd4593fc1c4>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 13  
**Total no. authors:** 15
- 50** A.C. Colabardini; F. Wang; Z. Miao; L. Pardeshi; C. Valero; P.A. de Castro; D.Y. Akiyama; K. Tan; L.C. Nora; R. Silva-Rocha; M. Marcet-Houben; T. Gabaldón; T. Fill; K.H. Wong; G.H. Goldman. Chromatin profiling reveals heterogeneity in clinical isolates of the human pathogen *Aspergillus fumigatus*. *PLoS Genetics*. 18 - 1, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123450730&doi=10.1371%2fjournal.pgen.1010001&partnerID=40&md5=8b382f24b00a24016f154f08ea9209bf>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 12  
**Total no. authors:** 15
- 51** M. Marcet-Houben; M. Alvarado; E. Ksiezopolska; E. Saus; P.W.J. de Groot; T. Gabaldón. Chromosome-level assemblies from diverse clades reveal limited structural and gene content variation in the genome of *Candida glabrata*. *BMC Biology*. 20 - 1, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85139417720&doi=10.1186%2fs12915-022-01412-1&partnerID=40&md5=d28b6c3c7fd75379286a216e6e84e98>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 6  
**Total no. authors:** 6
- 52** H.C. Liedtke; F. Cruz; J. Gómez-Garrido; D. Fuentes Palacios; M. Marcet-Houben; M. Gut; T. Alioto; T. Gabaldón; I. Gomez-Mestre. Chromosome-level assembly, annotation and phylome of *Pelobates cultripes*, the western spadefoot toad. *DNA Research*. 29 - 3, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85132316053&doi=10.1093%2fdnares%2fdsac013&partnerID=40&md5=71b71abf6fd88f58762abde23872d9ce>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 9
- 53** J.R. Willis; E. Saus; S. Iraola-Guzmán; E. Ksiezopolska; L. Cozzuto; L.A. Bejarano; N. Andreu-Somavilla; M. Alloza-Trabado; A. Blanco; A. Puig-Sola; E. Broglio; C. Carolis; J. Ponomarenko; J. Hecht; T. Gabaldón. Citizen-science reveals changes in the oral microbiome in Spain through age and lifestyle factors. *npj Biofilms and Microbiomes*. 8 - 1, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85130297801&doi=10.1038%2fs41522-022-00279-y&partnerID=40&md5=709381138a66b1915cf9d664a5dd29a3>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 15  
**Total no. authors:** 15



- 54** M. Snyder; S. Iraola-Guzmán; E. Saus; T. Gabaldón. Discovery and Validation of Clinically Relevant Long Non-Coding RNAs in Colorectal Cancer. *Cancers*. 14 - 16, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137316085&doi=10.3390%2fcancers14163866&partnerID=40&md5=12c10aeeb3391d72eb6aed6fd133a776>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 4  
**Total no. authors:** 4
- 55** T. Gabaldón; C.T. Hittinger. Editorial: Genomic insights on fungal hybrids. *Frontiers in Fungal Biology*. 3, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163679432&doi=10.3389%2ffunb.2022.1063609&partnerID=40&md5=e689e25b17e7db9d61c55876a20186fe>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 2
- 56** S. Foley; A. Vlasova; M. Marcet-Houben; T. Gabaldón; V.F. Hinman. Evolutionary analyses of genes in Echinodermata offer insights towards the origin of metazoan phyla. *Genomics*. 114 - 4, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134435543&doi=10.1016%2fj.ygeno.2022.110431&partnerID=40&md5=bdb557fa14012455e14664b6cd905eb>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 4  
**Total no. authors:** 5
- 57** M.A.C. Horta; J.L. Steenwyk; M.E. Mead; L.H. Braz dos Santos; S. Zhao; J.G. Gibbons; M. Marcet-Houben; T. Gabaldón; A. Rokas; G.H. Goldman. Examination of Genome-Wide Ortholog Variation in Clinical and Environmental Isolates of the Fungal Pathogen *Aspergillus fumigatus*. *mBio*. 13 - 4, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137127530&doi=10.1128%2fmbio.01519-22&partnerID=40&md5=190e58c6979bdeee44fa9d50779c18ee>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 10
- 58** V. Mixão; V. Del Olmo; E. Hegedusová; E. Saus; L. Pryszcz; A. Cillingová; J. Nosek; T. Gabaldón. Genome analysis of five recently described species of the CUG-Ser clade uncovers *Candida theae* as a new hybrid lineage with pathogenic potential in the *Candida parapsilosis* species complex. *DNA Research*. 29 - 2, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129781199&doi=10.1093%2fdnares%2fdsac010&partnerID=40&md5=7d45f9d00dfd88a19810914b0bfd530c>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 8
- 59** M.A. Naranjo-Ortiz; M. Molina; D. Fuentes; V. Mixão; T. Gabaldón. Karyon: a computational framework for the diagnosis of hybrids, aneuploids, and other nonstandard architectures in genome assemblies. *GigaScience*. 11, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144798081&doi=10.1093%2fgigascience%2fgiac088&partnerID=40&md5=4c416d7b38e682b32b5d4f683ddf03a7>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 5  
**Total no. authors:** 5



- 60** A. Hérivaux; J.R. Willis; T. Mercier; K. Lagrou; S.M. Gonçalves; R.A. Gonçalves; J. Maertens; A. Carvalho; T. Gabaldón; C. Cunha. Lung microbiota predict invasive pulmonary aspergillosis and its outcome in immunocompromised patients. *Thorax*. 77 - 3, pp. 283 - 291. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85108856780&doi=10.1136%2fthoraxjnl-2020-216179&partnerID=40&md5=6e98bbd81eebba8c058bcc2a99d6f3>>  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 9  
**Total no. authors:** 10
- 61** B. Theelen; V. Mixão; G. Ianiri; J.P.Z. Goh; J. Dijksterhuis; J. Heitman; T.L. Dawson; T. Gabaldón; T. Boekhout. Multiple Hybridization Events Punctuate the Evolutionary Trajectory of *Malassezia furfur*. *mBio*. 13 - 2, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129099471&doi=10.1128%2fmbio.03853-21&partnerID=40&md5=01fe4dc7db6cb07514909b3398074cfcf>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 9
- 62** T. Gabaldón; E. Völcker; G. Torruella. On the Biology, Diversity and Evolution of Nuclearioid Amoebozoa (Amorphea, Opisthokonta). *Protist*. 173 - 4, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134303873&doi=10.1016%2fj.protis.2022.125895&partnerID=40&md5=f21a0a522a3d971f0006f5ae48899a88>>  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1  
**Total no. authors:** 3
- 63** M.À. Schikora-Tamarit; T. Gabaldón. PerSVade: personalized structural variant detection in any species of interest. *Genome Biology*. 23 - 1, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85136002611&doi=10.1186%2fs13059-022-02737-4&partnerID=40&md5=dd8933e8c76c547af85ecd176ab8d83f>>  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 2
- 64** D. Fuentes; M. Molina; U. Chorostecki; S. Capella-Gutiérrez; M. Marcet-Houben; T. Gabaldón. PhylomeDB V5: An expanding repository for genome-wide catalogues of annotated gene phylogenies. *Nucleic Acids Research*. 50 - D1, pp. D1062 - D1068. 2022. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85125212495&doi=10.1093%2fnar%2f50sup1\\_d1062&partnerID=40&md5=cb62643591df340e1e0c46fdade4ed9c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85125212495&doi=10.1093%2fnar%2f50sup1_d1062&partnerID=40&md5=cb62643591df340e1e0c46fdade4ed9c)>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 6  
**Total no. authors:** 6
- 65** L.A. Bugnon; A.A. Edera; S. Prochetto; M. Gerard; J. Raad; E. Fenoy; M. Rubiolo; U. Chorostecki; T. Gabaldón; F. Ariel; L.E. Di Persia; D.H. Milone; G. Stegmayer. Secondary structure prediction of long noncoding RNA: review and experimental comparison of existing approaches. *Briefings in Bioinformatics*. 23 - 4, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134635671&doi=10.1093%2fbib%2fbib202204&partnerID=40&md5=ad5d1ee02815ad5b436ca7636fc10db4>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 9  
**Total no. authors:** 13
- 66** Y. Nevers; T.E.M. Jones; D. Jyothi; B. Yates; M. Ferret; L. Portell-Silva; L. Codo; S. Cosentino; M. Marcet-Houben; A. Vlasova; L. Poidevin; A. Kress; M. Hickman; E. Persson; I. Pilizota; C. Guijarro-Clarke; A. Altenhoff; E.A. Bruford; S. Cosentino; C. Dessimoz; I. Ebersberger; D.M. Emms; T. Gabaldón; N. Glover; C. Guijarro-Clarke;

M. Hickman; Y. Hu; T.E.M. Jones; D. Jyothi; A. Kress; O. Lecompte; B. Linard; Y. Nevers; E. Persson; M.J. Martin; L. Poidevin; D.S. Roos; E. Sonhammer; P.D. Thomas; D. Thybert; K. Vandepoele; A. Vlasova; B. Yates; S. Capella-Gutierrez; L. Codó; M. Ferret; A. Gonzalez-Uriarte; J. Garrayo-Ventas; L. Portell-Silva; D. Repchevsky; V. Sundesha; W. Iwasaki; O. Lecompte; E. Sonhammer; D.S. Roos; T. Gabaldón; D. Thybert; P.D. Thomas; Y. Hu; D.M. Emms; E. Bruford; S. Capella-Gutierrez; M.J. Martin; C. Dessimoz; A. Altenhoff. The Quest for Orthologs orthology benchmark service in 2022. *Nucleic Acids Research*. 50 - W1, pp. W623 - W632. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134739663&doi=10.1093%2fnar%2f50w1w623&partnerID=40&md5=732a2f27eff673b361425ee64dd3797a>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 23

**Total no. authors:** 65

- 67** G. Formenti; K. Theissinger; C. Fernandes; I. Bista; A. Bombarely; C. Bleidorn; C. Ciofi; A. Crottini; J.A. Godoy; J. Höglund; J. Malukiewicz; A. Mouton; R.A. Oomen; S. Paez; P.J. Palsbøll; C. Pampoulie; M.J. Ruiz-López; H. Svardal; C. Theofanopoulou; J. de Vries; A.-M. Waldvogel; G. Zhang; C.J. Mazzoni; E.D. Jarvis; M. Bálint; F. Čiampor; J. Hoglund; P. Palsbøll; M.J. Ruiz-López; G. Zhang; E. Jarvis; S.A. Aghayan; T.S. Alioto; I. Almudi; N. Alvarez; P.C. Alves; I.R. Amorim; A. Antunes; P. Arribas; P. Baldrian; P.R. Berg; G. Bertorelle; A. Böhne; A. Bonisoli-Alquati; L.L. Boštjančić; B. Boussau; C.M. Breton; E. Buzan; P.F. Campos; C. Carreras; L.F. Castro; L.J. Chueca; E. Conti; R. Cook-Deegan; D. Croll; M.V. Cunha; F. Delsuc; A.B. Dennis; D. Dimitrov; R. Faria; A. Favre; O.D. Fedrigo; R. Fernández; G.F. Ficetola; J.-F. Flot; T. Gabaldón; D.R. Galea Agius; G.R. Gallo; A.M. Giani; M.T.P. Gilbert; T. Grebenc; K. Guschanski; R. Guyot; B. Hausdorf; O. Hawlitschek; P.D. Heintzman; B. Heinze; M. Hiller; M. Husemann; A. Iannucci; I. Irisarri; K.S. Jakobsen; S. Jentoft; P. Klinga; A. Kloch; C.F. Kratochwil; H. Kusche; K.K.S. Layton; J.A. Leonard; E. Lerat; G. Liti; T. Manousaki; T. Marques-Bonet; P. Matos-Maraví; M. Matschiner; F. Maumus; A.M. Mc Cartney; S. Meiri; J. Melo-Ferreira; X. Mengual; M.T. Monaghan; M. Montagna; R.W. Mysłajek; M.T. Neiber; V. Nicolas; M. Novo; P. Ozretić; F. Palero; L. Pârvulescu; M. Pascual; O.S. Paulo; M. Pavlek; C. Pegueroles; L. Pellissier; G. Pesole; C.R. Primmer; A. Riesgo; L. Rüber; D. Rubolini; D. Salvi; O. Seehausen; M. Seidel; S. Secomandi; B. Studer; S. Theodoridis; M. Thines; L. Urban; A. Vasemägi; A. Vella; N. Vella; S.C. Vernes; C. Vernesi; D.R. Vieites; R.M. Waterhouse; C.W. Wheat; G. Wörheide; Y. Wurm; G. Zammit. The era of reference genomes in conservation genomics. *Trends in Ecology and Evolution*. 37 - 3, pp. 197 - 202. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123684072&doi=10.1016%2fj.tree.2021.11.008&partnerID=40&md5=50044cf37821aa0fa4e12bc9126b5989>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 66

**Total no. authors:** 138

- 68** A. Cillingová; R. Tóth; A. Mojáková; I. Zeman; R. Vrzoňová; B. Siváková; P. Baráth; M. Neboháčová; Z. Klepcová; F. Brázdovič; H. Lichancová; V. Hodorová; B. Brejová; T. Vinař; S. Mutalová; V. Vozáriková; G. Mutti; Ľ. Tomáška; A. Gácsér; T. Gabaldón; J. Nosek. Transcriptome and proteome profiling reveals complex adaptations of *Candida parapsilosis* cells assimilating hydroxyaromatic carbon sources. *PLoS Genetics*. 18 - 3, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126274852&doi=10.1371%2fjournal.pgen.1009815&partnerID=40&md5=c5cd2a644f0bef4b53ca4eb6aa40248>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 20

**Total no. authors:** 21

- 69** Teun Boekhout; Anthony S. Amend; Fouad El Baidouri; Toni Gabaldón; József Geml; Moritz Mittelbach; Vincent Robert; Chen Shuhui Tan; Benedetta Turchetti; Duong Vu; Qi-Ming Wang; Andrey Yurkov. Trends in yeast diversity discovery. *Fungal Diversity*. 114 - 1, pp. 491 - 537. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85120558707&doi=10.1007%2fs13225-021-00494-6&partnerID=40&md5=5e8a2dca35c207f2ad5cc28aaa616547>>.

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 4

**Total no. authors:** 12





- 70** M.À. Schikora-Tamarit; T. Gabaldón. Using genomics to understand the mechanisms of virulence and drug resistance in fungal pathogens. *Biochemical Society Transactions*. 50 - 3, pp. 1259 - 1268. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85133214285&doi=10.1042%2fBST20211123&partnerID=40&md5=9f5f8fccfdcc265e2b9a7f5d42c06>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 2
- 71** O. Khannous-Lleiffe; J.R. Willis; E. Saus; I. Cabrera-Aguilera; I. Almendros; R. Farré; D. Gozal; N. Farré; T. Gabaldón. A mouse model suggests that heart failure and its common comorbidity sleep fragmentation have no synergistic impacts on the gut microbiome. *Microorganisms*. 9 - 3, pp. 1 - 16. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102872210&doi=10.3390%2fmicroorganisms9030641&partnerID=40&md5=e7199ed849bc0d929b107d0d149e>>.  
**Type of production:** Scientific paper **Format:** Journal
- 72** A. Arastehfar; A. Carvalho; J. Houbraken; L. Lombardi; R. Garcia-Rubio; J.D. Jenks; O. Rivero-Menendez; R. Aljohani; I.D. Jacobsen; J. Berman; N. Osherov; M.T. Hedayati; M. Ilkit; D. James-Armstrong; T. Gabaldón; J. Meletiadis; M. Kostrzewa; W. Pan; C. Lass-Flörl; D.S. Perlin; M. Hoenigl. *Aspergillus fumigatus* and aspergillosis: From basics to clinics. *Studies in Mycology*. 100, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105439592&doi=10.1016%2fj.simyco.2021.100115&partnerID=40&md5=27d5c39a15d4db6c9e6fb64e2710c8b>>.  
**Type of production:** Scientific paper **Format:** Journal
- 73** M. Pekmezovic; H. Hovhannisyan; M.S. Gresnigt; E. Iracane; J. Oliveira-Pacheco; S. Siscar-Lewin; E. Seemann; B. Qualmann; T. Kalkreuter; S. Müller; T. Kamradt; S. Mogavero; S. Brunke; G. Butler; T. Gabaldón; B. Hube. *Candida* pathogens induce protective mitochondria-associated type I interferon signalling and a damage-driven response in vaginal epithelial cells. *Nature Microbiology*. 6 - 5, pp. 643 - 657. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103151125&doi=10.1038%2fs41564-021-00875-2&partnerID=40&md5=81e39622a80e3812a25ede0e19e082e>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 15  
**Total no. authors:** 16
- 74** Willis JR; Saus E; Iraola-Guzmán S; Cabello-Yeves E; Ksiezopolska E; Cozzuto L; Bejarano LA; Andreu-Somavilla N; Alloza-Trabado M; Blanco A; Puig-Sola A; Broglio E; Carolis C; Ponomarenko J; Hecht J; Gabaldón T. Citizen-science based study of the oral microbiome in Cystic fibrosis and matched controls reveals major differences in diversity and abundance of bacterial and fungal species. *Journal of Oral Microbiology*. 13 - 1, pp. 1897328. 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 75** Marcet-Houben M; Villarino M; Vilanova L; De Cal A; van Kan JAL; Usall J; Gabaldón T; Torres R. Comparative Genomics Used to Predict Virulence Factors and Metabolic Genes among *Monilinia* Species. *Journal of Fungi (Basel)*. 7 - 6, pp. 464. 2021.  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 76** V. Mixão; E. Saus; T. Boekhout; T. Gabaldón. Extreme diversification driven by parallel events of massive loss of heterozygosity in the hybrid lineage of *Candida albicans*. *Genetics*. 217 - 2, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101927444&doi=10.1093%2fGENETICS%2fiYAA004&partnerID=40&md5=12f4b7d4f9f02762aee0ad28c8b8693f>>.  
**Type of production:** Scientific paper **Format:** Journal



- 77** S.J. Priest; M.A. Coelho; V. Mixão; S.A. Clancey; Y. Xu; S. Sun; T. Gabaldón; J. Heitman. Factors enforcing the species boundary between the human pathogens *Cryptococcus neoformans* and *Cryptococcus deneoformans*. *PLoS Genetics*. 17 - 1, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099855120&doi=10.1371%2fjournal.pgen.1008871&partnerID=40&md5=c41138fb284c2664ee01d056fc23a488>>
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- Type of production:** Scientific paper **Format:** Journal
- Corresponding author:** Yes
- 79** Pekmezovic M; Kaune AK; Austermeier S; Hitzler SUJ; Mogavero S; Hovhannisyann H; Gabaldón T; Gresnigt MS; Hube B. Human albumin enhances the pathogenic potential of *Candida glabrata* on vaginal epithelial cells. *PLoS Pathogens*. 17 - 10, pp. e1010037. 2021.
- Type of production:** Scientific paper
- Corresponding author:** No
- 80** Torres AG; Rodríguez-Escribà M; Marcet-Houben M; Santos Vieira HG; Camacho N; Catena H; Murillo Recio M; Rafels-Ybern À; Reina O; Torres FM; Pardo-Saganta A; Gabaldón T; Novoa EM; Ribas de Pouplana L. Human tRNAs with inosine 34 are essential to efficiently translate eukarya-specific low-complexity proteins. *Nucleic Acids Research*. 49 - 12, pp. 7011 - 7034. 2021.
- Type of production:** Scientific paper **Format:** Journal
- Corresponding author:** No
- 81** U. Chorosteki; M. Molina; L.P. Pyszcz; T. Gabaldón. MetaPhOrs 2.0: Integrative, phylogeny-based inference of orthology and paralogy across the tree of life. *Nucleic Acids Research*. 48 - W1, pp. W553 - W557. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087321108&doi=10.1093%2fNAR%2fGKAA282&partnerID=40&md5=3d2d49aaa8dad5da452d81fb2ce43194>>.
- Type of production:** Scientific paper **Format:** Journal
- 82** Ksiezopolska E; Schikora-Tamarit MÀ; Beyer R; Nunez-Rodriguez JC.; Schüller C; Gabaldón T. Narrow mutational signatures drive acquisition of multidrug resistance in the fungal pathogen *Candida glabrata*. *Current Biology*. S0960-9822 - 21, pp. 01352-X. 2021.
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 6
- Total no. authors:** 6 **Corresponding author:** Yes
- 83** Vrzoňová R; Tóth R; Siváková B; Mot'ovská A; Gaplovská-Kyselá K; Baráth P; Tomáška Ľ; Gácsér A; Gabaldón T; Nosek J; Neboháčová M. OCT1 - a yeast mitochondrial thiolase involved in the 3-oxoadipate pathway. *FEMS Yeast Research*. 21 - 5, pp. foab034. 2021.
- Type of production:** Scientific paper **Format:** Journal
- Corresponding author:** No
- 84** J.R. Willis; S. Iraola-Guzmán; E. Saus; E. Ksiezopolska; L. Cozzuto; L.A. Bejarano; N. Andreu-Somavilla; M. Alloza-Trabado; A. Puig-Sola; A. Blanco; E. Broglio; C. Carolis; J. Hecht; J. Ponomarenko; T. Gabaldón. Oral microbiome in down syndrome and its implications on oral health. *Journal of Oral Microbiology*. 13 - 1, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098652955&doi=10.1080%2f20002297.2020.1865690&partnerID=40&md5=134cd677649e7592ead5a69701e9>>
- Type of production:** Scientific paper **Format:** Journal



- 85** Gabaldón T. Origin and Early Evolution of the Eukaryotic Cell. *Annu Rev Microbiol.* 75, pp. 631 - 647. 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 86** Fuentes D; Molina M; Chorostecki U; Capella-Gutiérrez S; Marcet-Houben M; Gabaldón T.. PhylomeDB V5: an expanding repository for genome-wide catalogues of annotated gene phylogenies. *Nucleic Acids Research.* 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 87** U. Chorostecki; J.R. Willis; E. Saus; T. Gabaldon. Profiling of RNA Structure at Single-Nucleotide Resolution Using nextPARS. *Methods in Molecular Biology.* 2284, pp. 51 - 61. 2021. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104167902&doi=10.1007%2f978-1-0716-1307-8\\_4&partnerID=40&md5=6eb65ddb751be412717ca3d99f61bf4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104167902&doi=10.1007%2f978-1-0716-1307-8_4&partnerID=40&md5=6eb65ddb751be412717ca3d99f61bf4)>  
**Type of production:** Scientific paper **Format:** Journal
- 88** Chorostecki U; Willis JR; Saus E; Gabaldon T. Profiling of RNA Structure at Single-Nucleotide Resolution Using nextPARS. *Methods Molecular Biology.* 2284, pp. 51 - 62. 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 89** M.À. Schikora-Tamarit; M. Marcet-Houben; J. Nosek; T. Gabaldón. Shared evolutionary footprints suggest mitochondrial oxidative damage underlies multiple complex I losses in fungi. *Open biology.* 11 - 4, pp. 200362 - 200362. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105048263&doi=10.1098%2frsob.200362&partnerID=40&md5=3dff9e2689b495c7eca9606945fbf517>>.  
**Type of production:** Scientific paper **Format:** Journal
- 90** Chorostecki U; Saus E; Gabaldón T. Structural characterization of NORAD reveals a stabilizing role of spacers and two new repeat units. *Computational & Structural Biotechnology Journal.* 19, pp. 3245 - 3254. 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 91** Hrant Hovhannisyany; Toni Gabaldón. The long non-coding RNA landscape of *Candida* yeast pathogens. *Nature Communications.* 12 - 1, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85121459258&doi=10.1038%2fs41467-021-27635-4&partnerID=40&md5=47d64e9c88a2ccee0e4b4472cab4790>>  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 2
- 92** Parisot N; Vargas-Chávez C; Goubert C; Baa-Puyoulet P; Balmand S; Beranger L; Blanc C; Bonnamour A; Boulesteix M; Bulet N; Calevro F.; Callaerts P; Chancy T; Charles H; Colella S; Da Silva Barbosa A; Dell'Aglio E; Di Genova A; Febvay G; Gabaldón T; Galvão Ferrarini M; Gerber A; Gillet B; Hubley R; Hughes S; Jacquín-Joly E; Maire J; Marcet-Houben M; Masson F; Meslin C; Montagné N; Moya A; Ribeiro de Vasconcelos AT; Richard G; Rosen J; Sagot MF; Smit AFA; Storer JM; Vincent-Monegat C; Vallier A; Vigneron A; Zaidman-Rémy A; Zamoum W; Vieira C; Rebollo R; Latorre A; Heddi A. The transposable element-rich genome of the cereal pest *Sitophilus oryzae*. *BMC Biology.* 19 - 1, pp. 241. 2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 93** J. Vosseberg; J.J.E. van Hooff; M. Marcet-Houben; A. van Vlimmeren; L.M. van Wijk; T. Gabaldón; B. Snel. Timing the origin of eukaryotic cellular complexity with ancient duplications. *Nature Ecology and Evolution.* 5 - 1, pp. 92 - 100. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094106309&doi=10.1038%2fs41559-020-01320-z&partnerID=40&md5=98964bbb35b619c978a30f5f8ec6d39c>>.

**Type of production:** Scientific paper **Format:** Journal

- 94** Siscar-Lewin S; Gabaldón T; Aldejohann AM,; Kurzai O,; Hube B; Brunke S. Transient Mitochondria Dysfunction Confers Fungal Cross-Resistance against Phagocytic Killing and Fluconazole. *mBio*. 12 - 3, pp. e0112821. 2021.

**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No

- 95** Z. Ghahremani; N. Escudero; D. Beltrán-Anadón; E. Saus; M. Cunquero; J. Andilla; P. Loza-Alvarez; T. Gabaldón; F.J. Sorribas. *Bacillus firmus* Strain I-1582, a Nematode Antagonist by Itself and Through the Plant. *Frontiers in Plant Science*. 11, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088500405&doi=10.3389%2ffpls.2020.00796&partnerID=40&md5=d6b5242d34f25323486c0c5cf909f809>>.

**Type of production:** Scientific paper **Format:** Journal

- 96** H. Hovhannisyán; A. Hafez; C. Llorens; T. Gabaldón. CROSSMAPPER: Estimating cross-mapping rates and optimizing experimental design in multi-species sequencing studies. *Bioinformatics*. 36 - 3, pp. 925 - 927. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079076669&doi=10.1093%2fbioinformatics%2fbtz626&partnerID=40&md5=3e26520f64319dfcf730be980782bd2a>>.

**Type of production:** Scientific paper **Format:** Journal

- 97** M. Pocerull; A.M. Fullana; M. Ferro; P. Valero; N. Escudero; E. Saus; T. Gabaldón; F.J. Sorribas. Commercial Formulates of *Trichoderma* Induce Systemic Plant Resistance to *Meloidogyne incognita* in Tomato and the Effect Is Additive to That of the Mi-1.2 Resistance Gene. *Frontiers in Microbiology*. 10, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079613087&doi=10.3389%2ffmicb.2019.03042&partnerID=40&md5=d1ecb4917f8e34bf95c0527e831bef0c>>.

**Type of production:** Scientific paper **Format:** Journal

- 98** R. Bescos; P. Casas-Agustench; L. Belfield; Z. Brookes; T. Gabaldón. Coronavirus Disease 2019 (COVID-19): Emerging and Future Challenges for Dental and Oral Medicine. *Journal of Dental Research*. 99 - 9, pp. 1113 - 1113. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085607442&doi=10.1177%2f0022034520932149&partnerID=40&md5=3105ac5323084a0f1d0997591a2808ed>>.

**Type of production:** Scientific paper **Format:** Journal

- 99** A. Muñoz-Barrios; S. Sopeña-Torres; B. Ramos; G. López; I. Del Hierro; S. Díaz-González; P. González-Melendi; H. Mérida; V. Fernández-Calleja; V. Mixão; M. Martín-Dacal; M. Marcet-Houben; T. Gabaldón; S. Sacristán; A. Molina. Differential expression of fungal genes determines the lifestyle of *Plectosphaerella* strains during *Arabidopsis thaliana* colonization. *Molecular Plant-Microbe Interactions*. 33 - 11, pp. 1299 - 1314. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094983767&doi=10.1094%2fMPMI-03-20-0057-R&partnerID=40&md5=34f2d2d538dde4c72913cdba278d0334>>.

**Type of production:** Scientific paper **Format:** Journal

- 100** A.A. Pittis; V. Goh; A. Cebrian-Serrano; J. Wettmarshausen; F. Perocchi; T. Gabaldón. Discovery of EMRE in fungi resolves the true evolutionary history of the mitochondrial calcium uniporter. *Nature Communications*. 11 - 1, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089384759&doi=10.1038%2fs41467-020-17705-4&partnerID=40&md5=ac78c0ef0c9440f134afe36d0bcdb16d>>.

**Type of production:** Scientific paper **Format:** Journal

- 101** M.T. Drott; R.W. Bastos; A. Rokas; L.N.A. Ries; T. Gabaldón; G.H. Goldman; N.P. Keller; C. Greco. Diversity of secondary metabolism in *Aspergillus nidulans* clinical isolates. *mSphere*. 5 - 2, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083261887&doi=10.1128%2fMSPHERE.00156-20&partnerID=40&md5=5e8a401f22a50ef7b42c9aa6483748a>>.

**Type of production:** Scientific paper **Format:** Journal



- 102** A. Arastehfar; T. Gabaldón; R. Garcia-Rubio; J.D. Jenks; M. Hoenig; H.J.F. Salzer; M. Ilkit; C. Lass-Flörl; D.S. Perlin. Drug-resistant fungi: An emerging challenge threatening our limited antifungal armamentarium. *Antibiotics*. 9 - 12, pp. 1 - 29. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093506267&doi=10.3390%2fantibiotics9120877&partnerID=40&md5=20bfb3d8e38d7105fdb938491fdf4716>>.  
**Type of production:** Scientific paper **Format:** Journal
- 103** Q.Z. Jaber; M. Bibi; E. Ksiezopolska; T. Gabaldon; J. Berman; M. Fridman. Elevated vacuolar uptake of fluorescently labeled antifungal drug caspofungin predicts echinocandin resistance in pathogenic yeast. *ACS Central Science*. 6 - 10, pp. 1698 - 1712. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092567606&doi=10.1021%2facscentsci.0c00813&partnerID=40&md5=9431725a225aa3974f420c1ad3b76c0e>>.  
**Type of production:** Scientific paper **Format:** Journal
- 104** C. Rispe; F. Legeai; P.D. Nabity; R. Fernández; A.K. Arora; P. Baa-Puyoulet; C.R. Banfill; L. Bao; M. Barberà; M. Bouallègue; A. Bretaudeau; J.A. Brisson; F. Calevro; P. Capy; O. Catrice; T. Chertemps; C. Couture; L. Delière; A.E. Douglas; K. Dufault-Thompson; P. Escuer; H. Feng; A. Forneck; T. Gabaldón; R. Guigó; F. Hilliou; S. Hinojosa-Alvarez; Y.-M. Hsiao; S. Hudaverdian; E. Jacquin-Joly; E.B. James; S. Johnston; B. Joubard; G. Le Goff; G. Le Trionnaire; P. Librado; S. Liu; E. Lombaert; H.-L. Lu; M. Maïbèche; M. Makni; M. Marcet-Houben; D. Martínez-Torres; C. Meslin; N. Montagné; N.A. Moran; D. Papura; N. Parisot; Y. Rahbé; M.R. Lopes; A. Ripoll-Cladellas; S. Robin; C. Roques; P. Roux; J. Rozas; A. Sánchez-Gracia; J.F. Sánchez-Herrero; D. Santesmasses; I. Scatoni; R.-F. Serre; M. Tang; W. Tian; P.A. Umina; M. Van Munster; C. Vincent-Monégat; J. Wemmer; A.C.C. Wilson; Y. Zhang; C. Zhao; J. Zhao; S. Zhao; X. Zhou; F. Delmotte; D. Tagu. Erratum: The genome sequence of the grape phylloxera provides insights into the evolution, adaptation, and invasion routes of an iconic pest (*BMC Biology* (2020) 18 (90) DOI: 10.1186/s12915-020-00820-5). *BMC Biology*. 18 - 1, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090913483&doi=10.1186%2fs12915-020-00864-7&partnerID=40&md5=24420719c7497d8356f4ed74207cbf1d>>.  
**Type of production:** Scientific paper **Format:** Journal
- 105** M. Marcet-Houben; T. Gabaldón. EvolClust: Automated inference of evolutionary conserved gene clusters in eukaryotes. *Bioinformatics*. 36 - 4, pp. 1265 - 1266. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080844138&doi=10.1093%2fbioinformatics%2fbtz706&partnerID=40&md5=86cf9721cd5e158b370e1825a6418819>>.  
**Type of production:** Scientific paper **Format:** Journal
- 106** R.W. Bastos; C. Valero; L.P. Silva; T. Schoen; M. Drott; V. Brauer; R. Silva-Rocha; A. Lind; J.L. Steenwyk; A. Rokas; F. Rodrigues; A. Resendiz-Sharpe; K. Lagrou; M. Marcet-Houben; T. Gabaldón; E. McDonnell; I. Reid; A. Tsang; B.R. Oakley; F.V. Loures; F. Almeida; A. Huttenlocher; N.P. Keller; L.N.A. Ries; G.H. Goldman. Functional characterization of clinical isolates of the opportunistic fungal pathogen *Aspergillus nidulans*. *mSphere*. 5 - 2, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083273994&doi=10.1128%2fMSPHERE.00153-20&partnerID=40&md5=edc93b44a866ad4ca603791f9102cf61>>.  
**Type of production:** Scientific paper **Format:** Journal
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- 109** V. Mixão; T. Gabaldón. Genomic evidence for a hybrid origin of the yeast opportunistic pathogen *Candida albicans*. *BMC Biology*. 18 - 1, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084389709&doi=10.1186%2fs12915-020-00776-6&partnerID=40&md5=4e7665b040d164764492612b0889d76>>.



**Type of production:** Scientific paper

**Format:** Journal

- 110** I. Julca; M. Marcet-Houben; F. Cruz; J. Gómez-Garrido; B.S. Gaut; C.M. Díez; I.G. Gut; T.S. Alioto; P. Vargas; T. Gabaldón. Genomic evidence for recurrent genetic admixture during the domestication of Mediterranean olive trees (*Olea europaea* L.). *BMC Biology*. 18 - 1, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093928198&doi=10.1186%2fs12915-020-00881-6&partnerID=40&md5=333f87b16d3da1f3ce4c74cafe5c520b>>

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**Format:** Journal

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**Format:** Journal

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**Type of production:** Scientific paper

**Format:** Journal

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**Type of production:** Scientific paper

**Format:** Journal

- 114** M. Gerdol; R. Moreira; F. Cruz; J. Gómez-Garrido; A. Vlasova; U. Rosani; P. Venier; M.A. Naranjo-Ortiz; M. Murgarella; S. Greco; P. Balseiro; A. Corvelo; L. Frias; M. Gut; T. Gabaldón; A. Pallavicini; C. Canchaya; B. Novoa; T.S. Alioto; D. Posada; A. Figueras. Massive gene presence-absence variation shapes an open pan-genome in the Mediterranean mussel. *Genome biology*. 21 - 1, pp. 275 - 275. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095961075&doi=10.1186%2fs13059-020-02180-3&partnerID=40&md5=779191fae16dd80603428af3bd96b5c7>>

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**Format:** Journal

- 115** T. Gabaldón; E. Gómez-Molero; O. Bader. Molecular Typing of *Candida glabrata*. *Mycopathologia*. 185 - 5, pp. 755 - 764. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074528940&doi=10.1007%2fs11046-019-00388-x&partnerID=40&md5=c4ffc0ce7309c1cd0495a3a5a79fa2ba>>

**Type of production:** Scientific paper

**Format:** Journal

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**Type of production:** Scientific paper

**Format:** Journal

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**Type of production:** Scientific paper

**Format:** Journal



- 118** E. Gómez-Molero; J.R. Willis; A. Dudakova; L. Carreté; M. Weig; U. Groß; A. Gácsér; T. Gabaldón; O. Bader. Phenotypic Variability in a Coinfection With Three Independent *Candida parapsilosis* Lineages. *Frontiers in Microbiology*. 11, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090577287&doi=10.3389%2ffmicb.2020.01994&partnerID=40&md5=e1781ccfc2536cae5c8ee61d2f33b4ba>>.  
**Type of production:** Scientific paper **Format:** Journal
- 119** I. Julca; M. Marcet-Houben; F. Cruz; C. Vargas-Chavez; J.S. Johnston; J. Gómez-Garrido; L. Frias; A. Corvelo; D. Loska; F. Cámara; M. Gut; T. Alioto; A. Latorre; T. Gabaldón; F.U. Battistuzzi. Phylogenomics Identifies an Ancestral Burst of Gene Duplications Predating the Diversification of Aphidomorpha. *Molecular Biology and Evolution*. 37 - 3, pp. 730 - 756. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081099183&doi=10.1093%2fmolbev%2fmsz261&partnerID=40&md5=9d35793860925788447201043a36b478>>.  
**Type of production:** Scientific paper **Format:** Journal
- 120** R. Fernandez; M. Marcet-Houben; F. Legeai; G. Richard; S. Robin; V. Wucher; C. Pegueroles; T. Gabaldon; D. Tagu. Selection following gene duplication shapes recent genome evolution in the pea aphid *Acyrthosiphon pisum*. *Molecular Biology and Evolution*. 37 - 9, pp. 2601 - 2615. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090511228&doi=10.1093%2fmolbev%2fmsaa110&partnerID=40&md5=54c0f17176d53212272ac21c2dde7941>>.  
**Type of production:** Scientific paper **Format:** Journal
- 121** R. Giordano; R.K. Donthu; A.V. Zimin; I.C. Julca Chavez; T. Gabaldon; M. van Munster; L. Hon; R. Hall; J.H. Badger; M. Nguyen; A. Flores; B. Potter; T. Giray; F.N. Soto-Adames; E. Weber; J.A.P. Marcelino; C.J. Fields; D.J. Voegtlin; C.B. Hill; G.L. Hartman; T. Akraiko; A. Aschwanden; A. Avalos; M. Band; B. Bonning; A. Bretaudeau; O. Chiesa; A. Chirumamilla; B.S. Coates; G. Cocuzza; E. Cullen; P. Desborough; B. Diers; C. DiFonzo; G.E. Heimpel; T. Herman; Y. Huang; J. Knodel; C.-C. Ko; G. Labrie; D. Lagos-Kutz; J.-H. Lee; S. Lee; F. Legeai; M. Mandrioli; G.C. Manicardi; E. Mazzoni; G. Melchiori; A. Micijevic; N. Miller; A. Nasuddin; B.A. Nault; M.E. O'Neal; M. Panini; M. Pessino; D. Prischmann-Voldseth; H.M. Robertson; Sijun Liu; H. Song; K. Tilmon; J. Tooker; K. Wu; S. Zhan. Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. *Insect Biochemistry and Molecular Biology*. 120, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082815574&doi=10.1016%2fj.ibmb.2020.103334&partnerID=40&md5=06ff8406dd8efddd6a5780a6eba1d2ff>>.  
**Type of production:** Scientific paper **Format:** Journal
- 122** S. Iraola-guzmán; A. Brunet-vega; C. Pegueroles; E. Saus; H. Hovhannisyan; A. Casalots; C. Pericay; T. Gabaldón. Target enrichment enables the discovery of lncRNAs with somatic mutations or altered expression in paraffin-embedded colorectal cancer samples. *Cancers*. 12 - 10, pp. 1 - 20. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091906779&doi=10.3390%2fcancers12102844&partnerID=40&md5=afa50b33a45594c76d7503e3e639d3f8>>.  
**Type of production:** Scientific paper **Format:** Journal
- 123** C. Rispe; F. Legeai; P.D. Nabity; R. Fernández; A.K. Arora; P. Baa-Puyoulet; C.R. Banfill; L. Bao; M. Barberà; M. Bouallègue; A. Bretaudeau; J.A. Brisson; F. Calevro; P. Cappy; O. Catrice; T. Chertemps; C. Couture; L. Delière; A.E. Douglas; K. Dufault-Thompson; P. Escuer; H. Feng; A. Forneck; T. Gabaldón; R. Guigó; F. Hilliou; S. Hinojosa-Alvarez; Y.-M. Hsiao; S. Hudaverdian; E. Jacquin-Joly; E.B. James; S. Johnston; B. Joubard; G. Le Goff; G. Le Trionnaire; P. Librado; S. Liu; E. Lombaert; H.-L. Lu; M. Maïbèche; M. Makni; M. Marcet-Houben; D. Martínez-Torres; C. Meslin; N. Montagné; N.A. Moran; D. Papura; N. Parisot; Y. Rahbé; M.R. Lopes; A. Ripoll-Cladellas; S. Robin; C. Roques; P. Roux; J. Rozas; A. Sánchez-Gracia; J.F. Sánchez-Herrero; D. Santesmasses; I. Scatoni; R.-F. Serre; M. Tang; W. Tian; P.A. Umina; M. Van Munster; C. Vincent-Monégat; J. Wemmer; A.C.C. Wilson; Y. Zhang; C. Zhao; J. Zhao; S. Zhao; X. Zhou; F. Delmotte; D. Tagu. The genome sequence of the grape phylloxera provides insights into the evolution, adaptation, and invasion routes of an iconic pest. *BMC Biology*. 18 - 1, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088475256&doi=10.1186%2fs12915-020-00820-5&partnerID=40&md5=aec4331a895e76e28521ac0614f8755>>.  
**Type of production:** Scientific paper **Format:** Journal



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**Type of production:** Scientific paper **Format:** Journal
- 125** A. Arastehfar; C. Lass-Flörl; R. Garcia-Rubio; F. Daneshnia; M. Ilkit; T. Boekhout; T. Gabaldon; D.S. Perlin. The quiet and underappreciated rise of drug-resistant invasive fungal pathogens. *Journal of Fungi*. 6 - 3, pp. 1 - 34. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089654251&doi=10.3390%2fjof6030138&partnerID=40&md5=0e90eff54bebb1decdd84130541de3a8>>.  
**Type of production:** Scientific paper **Format:** Journal
- 126** T. Alioto; K.G. Alexiou; A. Bardil; F. Barteri; R. Castanera; F. Cruz; A. Dhingra; H. Duval; Á. Fernández i Martí; L. Frias; B. Galán; J.L. García; W. Howad; J. Gómez-Garrido; M. Gut; I. Julca; J. Morata; P. Puigdomènech; P. Ribeca; M.J. Rubio Cabetas; A. Vlasova; M. Wirthensohn; J. Garcia-Mas; T. Gabaldón; J.M. Casacuberta; P. Arús. Transposons played a major role in the diversification between the closely related almond and peach genomes: results from the almond genome sequence. *Plant Journal*. 101 - 2, pp. 455 - 472. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074515827&doi=10.1111%2ftpj.14538&partnerID=40&md5=13528460e9a5ab2a9c206fe086b6f8c2>>.  
**Type of production:** Scientific paper **Format:** Journal
- 127** C. Papp; F. Bohner; K. Kocsis; M. Varga; A. Szekeres; L. Bodai; J.R. Willis; T. Gabaldón; R. Tóth; J.D. Nosanchuk; C. Vágvölgyi; A. Gácsér. Triazole Evolution of *Candida parapsilosis* Results in Cross-Resistance to Other Antifungal Drugs, Influences Stress Responses, and Alters Virulence in an Antifungal Drug-Dependent Manner. *mSphere*. 5 - 5, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094806118&doi=10.1128%2fmSphere.00821-20&partnerID=40&md5=c29f5dedd03812dfc406ed277ed7f82b>>.  
**Type of production:** Scientific paper **Format:** Journal
- 128** G. Zhao; Q. Lian; Z. Zhang; Q. Fu; Y. He; S. Ma; V. Ruggieri; A.J. Monforte; P. Wang; I. Julca; H. Wang; J. Liu; Y. Xu; R. Wang; J. Ji; Z. Xu; W. Kong; Y. Zhong; J. Shang; L. Pereira; J. Argyris; J. Zhang; C. Mayobre; M. Pujol; E. Oren; D. Ou; J. Wang; D. Sun; S. Zhao; Y. Zhu; N. Li; N. Katzir; A. Gur; C. Dogimont; H. Schaefer; W. Fan; A. Bendahmane; Z. Fei; M. Pitrat; T. Gabaldón; T. Lin; J. Garcia-Mas; Y. Xu; S. Huang. A comprehensive genome variation map of melon identifies multiple domestication events and loci influencing agronomic traits. *Nature Genetics*. 51 - 11, pp. 1607 - 1615. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074346842&doi=10.1038%2fs41588-019-0522-8&partnerID=40&md5=806ddf6f1c1cc2debf5934c54fdde671>>.  
**Type of production:** Scientific paper **Format:** Journal
- 129** N. Glover; C. Dessimoz; I. Ebersberger; S.K. Forslund; T. Gabaldón; J. Huerta-Cepas; M.-J. Martin; M. Muffato; M. Patricio; C. Pereira; A.S. Da Silva; Y. Wang; E. Sonnhammer; P.D. Thomas; R. Rogers. Advances and Applications in the Quest for Orthologs. *Molecular Biology and Evolution*. 36 - 10, pp. 2157 - 2164. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072628071&doi=10.1093%2fmolbev%2fmsz150&partnerID=40&md5=7b7f523c7a74a1fd78af8cb473c6b274>>.  
**Type of production:** Scientific paper **Format:** Journal
- 130** R. Tóth; J. Nosek; H.M. Mora-Montes; T. Gabaldon; J.M. Bliss; J.D. Nosanchuk; S.A. Turner; G. Butler; C. Vágvölgyi; A. Gácsér. *Candida parapsilosis*: From genes to the bedside. *Clinical Microbiology Reviews*. 32 - 2, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062409041&doi=10.1128%2fCMR.00111-18&partnerID=40&md5=fe840e9953f06683146f5c421d9e49d5>>.  
**Type of production:** Scientific paper **Format:** Journal
- 131** R. Lütkenhaus; S. Traeger; J. Breuer; L. Carreté; A. Kuo; A. Lipzen; J. Pangilinan; D. Dilworth; L. Sandor; S. Pöggeler; T. Gabaldón; K. Barry; I.V. Grigoriev; M. Nowrousian. Comparative genomics and transcriptomics to analyze fruiting body development in filamentous ascomycetes. *Genetics*. 213 - 4, pp. 1545 - 1563. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075969040&doi=10.1534%2fgenetics.119.302749&partnerID=40&md5=e493646d333acb8877604081cba844b>>.  
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- 133** M.A. Naranjo-Ortiz; T. Gabaldón. Fungal evolution: diversity, taxonomy and phylogeny of the Fungi. *Biological Reviews*. 94 - 6, pp. 2101 - 2137. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074223985&doi=10.1111%2fbrv.12550&partnerID=40&md5=a46bc5c847765d66f3d65b27c9944bd3>>.
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- 134** M.A. Naranjo-Ortiz; T. Gabaldón. Fungal evolution: major ecological adaptations and evolutionary transitions. *Biological Reviews*. 94 - 4, pp. 1443 - 1476. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065012090&doi=10.1111%2fbrv.12510&partnerID=40&md5=2a7523b8d4bc4a3e82e9e5e75e4edbb0>>.
- Type of production:** Scientific paper **Format:** Journal
- 135** J. Pérez-Sánchez; F. Naya-Català; B. Soriano; M.C. Piazzon; A. Hafez; T. Gabaldón; C. Llorens; A. Sitjà-Bobadilla; J.A. Caldúch-Giner. Genome Sequencing and Transcriptome Analysis Reveal Recent Species-Specific Gene Duplications in the Plastic Gilthead Sea Bream (*Sparus aurata*). *Frontiers in Marine Science*. 6, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077362511&doi=10.3389%2ffmars.2019.00760&partnerID=40&md5=29a88c9ffb2f1798a326d9dd1cb1df9e>>.
- Type of production:** Scientific paper **Format:** Journal
- 136** V. Mixão; E. Saus; A.P. Hansen; C. Lass-Flörl; T. Gabaldón. Genome assemblies of two rare opportunistic yeast pathogens: *Diutina rugosa* (syn. *Candida rugosa*) and *Trichomonascus ciferrii* (syn. *Candida ciferrii*). *G3: Genes, Genomes, Genetics*. 9 - 12, pp. 3921 - 3927. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076124452&doi=10.1534%2fg3.119.400762&partnerID=40&md5=b5aa5246a526215b48386056ea842508>>.
- Type of production:** Scientific paper **Format:** Journal
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- Type of production:** Scientific paper      **Format:** Journal
- 150** J.-L. Legras; V. Galeote; F. Bigey; C. Camarasa; S. Marsit; T. Nidelet; I. Sanchez; A. Couloux; J. Guy; R. Franco-Duarte; M. Marcet-Houben; T. Gabaldón; D. Schuller; J.P. Sampaio; S. Dequin. Adaptation of *S. Cerevisiae* to fermented food environments reveals remarkable genome plasticity and the footprints of domestication. *Molecular Biology and Evolution*. 35 - 7, pp. 1712 - 1727. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049474062&doi=10.1093%2fmolbev%2fmsy066&partnerID=40&md5=9e1130e54154cbd7aa65959a429ddf3f>>
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- Type of production:** Scientific paper      **Format:** Journal
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- 154** C. Papp; K. Kocsis; R. Tóth; L. Bodai; J.R. Willis; E. Ksiezopolska; N.E. Lozoya-Pérez; C. Vágvölgyi; H.M. Montes; T. Gabaldón; J.D. Nosanchuk; A. Gácsér. Echinocandin-induced microevolution of *Candida parapsilosis* influences virulence and abiotic stress tolerance. *mSphere*. 3 - 6, 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056663324&doi=10.1128%2fmSPHERE.00547-18&partnerID=40&md5=fea32bb3dbc5495eb79ac5de14eea3e>>
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- Type of production:** Scientific paper **Format:** Journal
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- Type of production:** Scientific paper **Format:** Journal
- 159** J. Ropars; C. Maufrais; D. Diogo; M. Marcet-Houben; A. Perin; N. Sertour; K. Mosca; E. Permal; G. Laval; C. Bouchier; L. Ma; K. Schwartz; K. Voelz; R.C. May; J. Poulain; C. Battail; P. Wincker; A.M. Borman; A. Chowdhary; S. Fan; S.H. Kim; P. Le Pape; O. Romeo; J.H. Shin; T. Gabaldon; G. Sherlock; M.-E. Bournoux; C. D'Enfert. Gene flow contributes to diversification of the major fungal pathogen *Candida albicans*. *Nature Communications*. 9 - 1, 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048260301&doi=10.1038%2fs41467-018-04787-4&partnerID=40&md5=bdc01112cd152f4085b411ce78a67110>>
- Type of production:** Scientific paper **Format:** Journal
- 160** A.A. Kotlobay; K.S. Sarkisyan; Y.A. Mokrushina; M. Marcet-Houben; E.O. Serebrovskaya; N.M. Markina; L.G. Somermeyer; A.Y. Gorokhovatsky; A. Vvedensky; K.V. Purtov; V.N. Petushkov; N.S. Rodionova; T.V. Chepurnyh; L.I. Fakhranurova; E.B. Guglya; R. Ziganshin; A.S. Tsarkova; Z.M. Kaskova; V. Shender; M. Abakumov; T.O. Abakumova; I.S. Povolotskaya; F.M. Eroshkin; A.G. Zaraisky; A.S. Mishin; S.V. Dolgov; T.Y. Mitiouchkina; E.P. Kopantzev; H.E. Waldenmaier; A.G. Oliveira; Y. Oba; E. Barsova; E.A. Bogdanova; T. Gabaldón; C.V. Stevani; S. Lukyanov; I.V. Smirnov; J.I. Gitelson; F.A. Kondrashov; I.V. Yampolsky. Genetically encodable bioluminescent system from fungi. *Proceedings of the National Academy of Sciences of the United States of America*. 115 - 50, pp. 12728 - 12732. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058347948&doi=10.1073%2fpnas.1803615115&partnerID=40&md5=9abb64e8659d9d6a8e0c45d0714a4505>>
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**Type of production:** Scientific paper **Format:** Journal
- 164** R. Tóth; V. Cabral; E. Thuer; F. Bohner; T. Németh; C. Papp; L. Nimrichter; G. Molnár; C. Vágvölgyi; T. Gabaldón; J.D. Nosanchuk; A. Gácsér. Investigation of *Candida parapsilosis* virulence regulatory factors during host-pathogen interaction. *Scientific Reports*. 8 - 1, 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040997609&doi=10.1038%2fs41598-018-19453-4&partnerID=40&md5=e716ba74025232930f809196bbe446e>>.  
**Type of production:** Scientific paper **Format:** Journal
- 165** J. Wettmarshausen; V. Goh; K.-T. Huang; D.M. Arduino; U. Tripathi; A. Leimpek; Y. Cheng; A.A. Pittis; T. Gabaldón; D. Mokranjac; G. Hajnóczky; F. Perocchi. MICU1 Confers Protection from MCU-Dependent Manganese Toxicity. *Cell Reports*. 25 - 6, pp. 1425 - 1435.e7. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055753462&doi=10.1016%2fj.celrep.2018.10.037&partnerID=40&md5=898522fcb712f0da0a63cd50b05d2735>>.  
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- 167** E. Saus; J.R. Willis; L.P. Pryszcz; A. Hafez; C. Llorens; H. Himmelbauer; T. Gabaldón. NextPARS: Parallel probing of RNA structures in illumina. *RNA*. 24 - 4, pp. 609 - 619. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044935659&doi=10.1261%2frna.063073.117&partnerID=40&md5=d76713fdd840bdc2e4bc2e9772bad37f>>.  
**Type of production:** Scientific paper **Format:** Journal
- 168** L. Carreté; E. Ksiezopolska; C. Pegueroles; E. Gómez-Molero; E. Saus; S. Iraola-Guzmán; D. Loska; O. Bader; C. Fairhead; T. Gabaldón. Patterns of Genomic Variation in the Opportunistic Pathogen *Candida glabrata* Suggest the Existence of Mating and a Secondary Association with Humans. *Current Biology*. 28 - 1, pp. 15 - 27.e7. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039035477&doi=10.1016%2fj.cub.2017.11.027&partnerID=40&md5=832c5444305bc2b498cc565952242a77>>.  
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**Type of production:** Scientific paper **Format:** Journal



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- Type of production:** Scientific paper **Format:** Journal
- 173** A. Cillingová; I. Zeman; R. Tóth; M. Neboháčová; I. Dunčková; M. Hölcová; M. Jakúbková; G. Gérecová; L.P. Pryszcz; L'. Tomáška; T. Gabaldón; A. Gácsér; J. Nosek. Eukaryotic transporters for hydroxyderivatives of benzoic acid. Scientific Reports. 7 - 1, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029458190&doi=10.1038%2fs41598-017-09408-6&partnerID=40&md5=77610d10a3885e5277ccab403ca51ce>>
- Type of production:** Scientific paper **Format:** Journal
- 174** H.V. Figueiró; G. Li; F.J. Trindade; J. Assis; F. Pais; G. Fernandes; S.H.D. Santos; G.M. Hughes; A. Komissarov; A. Antunes; C.S. Trinca; M.R. Rodrigues; T. Linderoth; K. Bi; L. Silveira; F.C.C. Azevedo; D. Kantek; E. Ramalho; R.A. Brassaloti; P.M.S. Villela; A.L.V. Nunes; R.H.F. Teixeira; R.G. Morato; D. Loska; P. Saragüeta; T. Gabaldón; E.C. Teeling; S.J. O'Brien; R. Nielsen; L.L. Coutinho; G. Oliveira; W.J. Murphy; E. Eizirik. Genome-wide signatures of complex introgression and adaptive evolution in the big cats. Science Advances. 3 - 7, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041388083&doi=10.1126%2fsciadv.1700299&partnerID=40&md5=624732bb233635cb105e90f06c88cf28>>
- Type of production:** Scientific paper **Format:** Journal
- 175** M. Rendón-Anaya; J.M. Montero-Vargas; S. Saburido-Álvarez; A. Vlasova; S. Capella-Gutierrez; J.J. Ordaz-Ortiz; O.M. Aguilar; R.P. Vianello-Brondani; M. Santalla; L. Delaye; T. Gabaldón; P. Gepts; R. Winkler; R. Guigó; A. Delgado-Salinas; A. Herrera-Estrella. Genomic history of the origin and domestication of common bean unveils its closest sister species. Genome Biology. 18 - 1, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016445352&doi=10.1186%2fs13059-017-1190-6&partnerID=40&md5=f0fa3a099a6e450d97a8e47f81ab31be>>
- Type of production:** Scientific paper **Format:** Journal
- 176** M. Echeverz; B. García; A. Sabalza; J. Valle; T. Gabaldón; C. Solano; I. Lasa. Lack of the PGA exopolysaccharide in Salmonella as an adaptive trait for survival in the host. PLoS Genetics. 13 - 5, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020164245&doi=10.1371%2fjournal.pgen.1006816&partnerID=40&md5=3596e59e87048e3026be6b179bd9f7>>
- Type of production:** Scientific paper **Format:** Journal
- 177** T.C. Mathers; Y. Chen; G. Kaithakottil; F. Legeai; S.T. Mugford; P. Baa-Puyoulet; A. Bretaudeau; B. Clavijo; S. Colella; O. Collin; T. Dalmay; T. Derrien; H. Feng; T. Gabaldón; A. Jordan; I. Julca; G.J. Kettles; K. Kowitwanich; D. Lavenier; P. Lenzi; S. Lopez-Gomollon; D. Loska; D. Mapleson; F. Maumus; S. Moxon; D.R.G. Price; A. Sugio; M. van Munster; M. Uzest; D. Waite; G. Jander; D. Tagu; A.C.C. Wilson; C. van Oosterhout; D. Swarbreck; S.A. Hogenhout. Rapid transcriptional plasticity of duplicated gene clusters enables a clonally reproducing aphid to colonise diverse plant species. Genome Biology. 18 - 1, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012165213&doi=10.1186%2fs13059-016-1145-3&partnerID=40&md5=9af8713c72cf7d38a1fedbe7e166dee2>>
- Type of production:** Scientific paper **Format:** Journal



- 178** G. Bravo-Ruiz; A.H. Sassi; M. Marcet-Houben; A. Di Pietro; A. Gargouri; T. Gabaldon; M.I.G. Roncero. Regulatory mechanisms of a highly pectinolytic mutant of *Penicillium occitanis* and functional analysis of a candidate gene in the plant pathogen *Fusarium oxysporum*. *Frontiers in Microbiology*. 8 - SEP, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029215796&doi=10.3389%2ffmicb.2017.01627&partnerID=40&md5=d293b6b6248724c869e79adb2592367f>>.

**Type of production:** Scientific paper

**Format:** Journal

- 179** Y. Jiang; T.R. Oron; W.T. Clark; A.R. Bankapur; D. D'Andrea; R. Lepore; C.S. Funk; I. Kahanda; K.M. Verspoor; A. Ben-Hur; D.C.E. Koo; D. Penfold-Brown; D. Shasha; N. Youngs; R. Bonneau; A. Lin; S.M.E. Sahraeian; P.L. Martelli; G. Profiti; R. Casadio; R. Cao; Z. Zhong; J. Cheng; A. Altenhoff; N. Skunca; C. Dessimoz; T. Dogan; K. Hakala; S. Kaewphan; F. Mehryary; T. Salakoski; F. Ginter; H. Fang; B. Smithers; M. Oates; J. Gough; P. Törönen; P. Koskinen; L. Holm; C.-T. Chen; W.-L. Hsu; K. Bryson; D. Cozzetto; F. Minneci; D.T. Jones; S. Chapman; D. Bkc; I.K. Khan; D. Kihara; D. Ofer; N. Rappoport; A. Stern; E. Cibrian-Uhalte; P. Denny; R.E. Foulger; R. Hieta; D. Legge; R.C. Lovering; M. Magrane; A.N. Melidoni; P. Mutowo-Meullenet; K. Pichler; A. Shypitsyna; B. Li; P. Zakeri; S. ElShal; L.-C. Tranchevent; S. Das; N.L. Dawson; D. Lee; J.G. Lees; I. Sillitoe; P. Bhat; T. Nepusz; A.E. Romero; R. Sasidharan; H. Yang; A. Paccanaro; J. Gillis; A.E. Sedeño-Cortés; P. Pavlidis; S. Feng; J.M. Cejuela; T. Goldberg; T. Hamp; L. Richter; A. Salamov; T. Gabaldon; M. Marcet-Houben; F. Supek; Q. Gong; W. Ning; Y. Zhou; W. Tian; M. Falda; P. Fontana; E. Lavezzo; S. Toppo; C. Ferrari; M. Giollo; D. Piovesan; S.C.E. Tosatto; A. del Pozo; J.M. Fernández; P. Maietta; A. Valencia; M.L. Tress; A. Benso; S. Di Carlo; G. Politano; A. Savino; H.U. Rehman; M. Re; M. Mesiti; G. Valentini; J.W. Bargsten; A.D.J. van Dijk; B. Gemovic; S. Glisic; V. Perovic; V. Veljkovic; N. Veljkovic; D.C. Almeida-e-Silva; R.Z.N. Vencio; M. Sharan; J. Vogel; L. Kansakar; S. Zhang; S. Vucetic; Z. Wang; M.J.E. Sternberg; M.N. Wass; R.P. Huntley; M.J. Martin; C. O'Donovan; P.N. Robinson; Y. Moreau; A. Tramontano; P.C. Babbitt; S.E. Brenner; M. Linial; C.A. Orengo; B. Rost; C.S. Greene; S.D. Mooney; I. Friedberg; P. Radivojac. An expanded evaluation of protein function prediction methods shows an improvement in accuracy. *Genome Biology*. 17 - 1, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986207718&doi=10.1186%2fs13059-016-1037-6&partnerID=40&md5=c79fdc4596b2e918f2dc442974945bb4>>.

**Type of production:** Scientific paper

**Format:** Journal

- 180** P. Baa-Puyoulet; N. Parisot; G. Febvay; J. Huerta-Cepas; A.F. Vellozo; T. Gabaldón; F. Calevro; H. Charles; S. Colella. *ArthropodaCyc*: A CycADS powered collection of BioCyc databases to analyse and compare metabolism of arthropods. *Database*. 2016, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992626234&doi=10.1093%2fdatabase%2fbaw081&partnerID=40&md5=d5ed474cd3332f441f9b789f420a3851>>.

**Type of production:** Scientific paper

**Format:** Journal

- 181** M.W. Vandewege; S.F. Mangum; T. Gabaldón; T.A. Castoe; D.A. Ray; F.G. Hoffmann. Contrasting Patterns of Evolutionary Diversification in the Olfactory Repertoires of Reptile and Bird Genomes. *Genome biology and evolution*. 8 - 3, pp. 470 - 480. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014805280&doi=10.1093%2fgbe%2fevw013&partnerID=40&md5=789dba0580aebced7edbc75b220c7b84>>.

**Type of production:** Scientific paper

**Format:** Journal



- 182** I. Julca; S. Droby; N. Sela; M. Marcet-Houben; T. Gabaldón. Contrasting genomic diversity in two closely related postharvest pathogens: *Penicillium digitatum* and *penicillium expansum*. *Genome Biology and Evolution*. 8 - 1, pp. 218 - 227. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991269995&doi=10.1093%2fgbe%2fevv252&partnerID=40&md5=66f7a95abe5d215fa8a4acd445a4bfc0>>.  
**Type of production:** Scientific paper **Format:** Journal
- 183** H. Banani; M. Marcet-Houben; A.-R. Ballester; P. Abbruscato; L. González-Candelas; T. Gabaldón; D. Spadaro. De novo sequencing and detection of secondary metabolite gene clusters of *Penicillium griseofulvum*. *Acta Horticulturae*. 1144, pp. 157 - 162. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007494697&doi=10.17660%2fActaHortic.2016.1144.22&partnerID=40&md5=3c1f1478a78c9a49daf4aa08aae9>>.  
**Type of production:** Scientific paper **Format:** Journal
- 184** T. Gabaldón; M.A. Naranjo-Ortiz; M. Marcet-Houben. Evolutionary genomics of yeast pathogens in the Saccharomycotina. *FEMS Yeast Research*. 16 - 6, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991037832&doi=10.1093%2ffemsyr%2ffow064&partnerID=40&md5=507bb2ddc1c79885c1498aff593f0bbb>>.  
**Type of production:** Scientific paper **Format:** Journal
- 185** L.M. Corrochano; A. Kuo; M. Marcet-Houben; S. Polaino; A. Salamov; J.M. Villalobos-Escobedo; J. Grimwood; M.I. Álvarez; J. Avalos; D. Bauer; E.P. Benito; I. Benoit; G. Burger; L.P. Camino; D. Cánovas; E. Cerdá-Olmedo; J.-F. Cheng; A. Domínguez; M. Eliáš; A.P. Eslava; F. Glaser; G. Gutiérrez; J. Heitman; B. Henrissat; E.A. Iturriaga; B.F. Lang; J.L. Lavín; S.C. Lee; W. Li; E. Lindquist; S. López-García; E.M. Luque; A.T. Marcos; J. Martin; K. McCluskey; H.R. Medina; A. Miralles-Durán; A. Miyazaki; E. Muñoz-Torres; J.A. Oguiza; R.A. Ohm; M. Olmedo; M. Orejas; L. Ortiz-Castellanos; A.G. Pisabarro; J. Rodríguez-Romero; J. Ruiz-Herrera; R. Ruiz-Vázquez; C. Sanz; W. Schackwitz; M. Shahriari; E. Shelest; F. Silva-Franco; D. Soanes; K. Syed; V.G. Tagua; N.J. Talbot; M.R. Thon; H. Tice; R.P. de Vries; A. Wiebenga; J.S. Yadav; E.L. Braun; S.E. Baker; V. Garre; J. Schmutz; B.A. Horwitz; S. Torres-Martínez; A. Idnurm; A. Herrera-Estrella; T. Gabaldón; I.V. Grigoriev. Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. *Current Biology*. 26 - 12, pp. 1577 - 1584. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84970023707&doi=10.1016%2fj.cub.2016.04.038&partnerID=40&md5=5d60a2dd42a1c974146cd3462d98040f>>.  
**Type of production:** Scientific paper **Format:** Journal
- 186** A. Vlasova; S. Capella-Gutiérrez; M. Rendón-Anaya; M. Hernández-Oñate; A.E. Minoche; I. Erb; F. Câmara; P. Prieto-Barja; A. Corvelo; W. Sanseverino; G. Westergaard; J.C. Dohm; G.J. Pappas; S. Saburido-Alvarez; D. Kedra; I. Gonzalez; L. Cozzuto; J. Gómez-Garrido; M.A. Aguilar-Morón; N. Andreu; O.M. Aguilar; J. Garcia-Mas; M. Zehnsdorf; M.P. Vázquez; A. Delgado-Salinas; L. Delaye; E. Lowy; A. Mentaberry; R.P. Vianello-Bronzani; J.L. García; T. Alioto; F. Sánchez; H. Himmelbauer; M. Santalla; C. Notredame; T. Gabaldón; A. Herrera-Estrella; R. Guigó. Genome and transcriptome analysis of the Mesoamerican common bean and the role of gene duplications in establishing tissue and temporal specialization of genes. *Genome Biology*. 17 - 1, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959089024&doi=10.1186%2fs13059-016-0883-6&partnerID=40&md5=6c92e93f84ec7aeb3968baaab3c9ada3>>.  
**Type of production:** Scientific paper **Format:** Journal
- 187** F. Cruz; I. Julca; J. Gómez-Garrido; D. Loska; M. Marcet-Houben; E. Cano; B. Galán; L. Frias; P. Ribeca; S. Derdak; M. Gut; M. Sánchez-Fernández; J.L. García; I.G. Gut; P. Vargas; T.S. Alioto; T. Gabaldón. Genome sequence of the olive tree, *Olea europaea*. *GigaScience*. 5 - 1, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006192475&doi=10.1186%2fs13742-016-0134-5&partnerID=40&md5=25cae252f7dc05d3d84631c88c644efd>>.  
**Type of production:** Scientific paper **Format:** Journal
- 188** H. Banani; M. Marcet-Houben; A.-R. Ballester; P. Abbruscato; L. González-Candelas; T. Gabaldón; D. Spadaro. Genome sequencing and secondary metabolism of the postharvest pathogen *Penicillium griseofulvum*. *BMC Genomics*. 17 - 1, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952803282&doi=10.1186%2fs12864-015-2347-x&partnerID=40&md5=72f89436fec939c44031d5af3878df38>>.



**Type of production:** Scientific paper

**Format:** Journal

- 189** A. Sebé-Pedrós; M.I. Peña; S. Capella-Gutiérrez; M. Antó; T. Gabaldón; I. Ruiz-Trillo; E. Sabidó. High-Throughput Proteomics Reveals the Unicellular Roots of Animal Phosphosignaling and Cell Differentiation. *Developmental Cell*. 39 - 2, pp. 186 - 197. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994735151&doi=10.1016%2fj.devcel.2016.09.019&partnerID=40&md5=36f08f7910d041aa7e38a670e0090ef2>>

**Type of production:** Scientific paper

**Format:** Journal

- 190** M. Marcet-Houben; T. Gabaldón. Horizontal acquisition of toxic alkaloid synthesis in a clade of plant associated fungi. *Fungal Genetics and Biology*. 86, pp. 71 - 80. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951125355&doi=10.1016%2fj.fgb.2015.12.006&partnerID=40&md5=a52405b069a84155cc6c88cc0b7c5741>>

**Type of production:** Scientific paper

**Format:** Journal

- 191** A.A. Pittis; T. Gabaldón. Late acquisition of mitochondria by a host with chimaeric prokaryotic ancestry. *Nature*. 531 - 7592, pp. 101 - 104. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960153141&doi=10.1038%2fnature16941&partnerID=40&md5=0a10743a3d8556c31716f49463d8a21d>>

**Type of production:** Scientific paper

**Format:** Journal

- 192** M. Mariotti; A.V. Lobanov; B. Manta; D. Santesmasses; A. Bofill; R. Guigó; T. Gabaldón; V.N. Gladyshev. Lokiarchaeota Marks the Transition between the Archaeal and Eukaryotic Selenocysteine Encoding Systems. *Molecular Biology and Evolution*. 33 - 9, pp. 2441 - 2453. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995370874&doi=10.1093%2fmolbev%2fmsw122&partnerID=40&md5=c3cbbe9756bf534488caeb6d387efe1>>

**Type of production:** Scientific paper

**Format:** Journal

- 193** E. Saus; A. Brunet-Vega; S. Iraola-Guzmán; C. Pegueroles; T. Gabaldón; C. Pericay. Long non-coding RNAs as potential novel prognostic biomarkers in colorectal cancer. *Frontiers in Genetics*. 7 - APR, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964906948&doi=10.3389%2ffgene.2016.00054&partnerID=40&md5=4555426d416768ffdb25fcd8c4a3248>>

**Type of production:** Scientific paper

**Format:** Journal

- 194** I. Zeman; M. Neboháčová; G. Gérecová; K. Katonová; E. Jánošíková; M. Jakúbková; I. Centárová; I. Dunčková; L. Tomáška; L.P. Pryszcz; T. Gabaldón; J. Nosek. Mitochondrial carriers link the catabolism of hydroxyaromatic compounds to the central metabolism in *Candida parapsilosis*. *G3: Genes, Genomes, Genetics*. 6 - 12, pp. 4047 - 4058. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008471381&doi=10.1534%2fg3.116.034389&partnerID=40&md5=c06d3e753d41f26c2995b15293e18914>>

**Type of production:** Scientific paper

**Format:** Journal

- 195** T. Gabaldón; M.L. Ginger; P.A.M. Michels. Peroxisomes in parasitic protists. *Molecular and Biochemical Parasitology*. 209 - 1-2, pp. 35 - 45. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963959806&doi=10.1016%2fj.molbiopara.2016.02.005&partnerID=40&md5=a0a842914e9aee002e1cfc8ce5a6>>

**Type of production:** Scientific paper

**Format:** Journal

- 196** L.P. Pryszcz; T. Gabaldón. Redundans: An assembly pipeline for highly heterozygous genomes. *Nucleic Acids Research*. 44 - 12, pp. e113 - e113. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979041843&doi=10.1093%2fnar%2fgkw294&partnerID=40&md5=f2097f5663a1ed8506c80d96b10d3c56>>

**Type of production:** Scientific paper

**Format:** Journal

- 197** C. Pegueroles; T. Gabaldón. Secondary structure impacts patterns of selection in human lncRNAs. *BMC Biology*. 14 - 1, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982719089&doi=10.1186%2fs12915-016-0283-0&partnerID=40&md5=e42154348ed236c56b50260c703e2d06>>

**Type of production:** Scientific paper

**Format:** Journal



- 198** A.M. Altenhoff; B. Boeckmann; S. Capella-Gutierrez; D.A. Dalquen; T. DeLuca; K. Forslund; J. Huerta-Cepas; B. Linard; C. Pereira; L.P. Pryszcz; F. Schreiber; A.S. Da Silva; D. Szklarczyk; C.-M. Train; P. Bork; O. Lecompte; C. Von Mering; I. Xenarios; K. Sjölander; L.J. Jensen; M.J. Martin; M. Muffato; T. Gabaldón; S.E. Lewis; P.D. Thomas; E. Sonnhammer; C. Dessimoz. Standardized benchmarking in the quest for orthologs. *Nature Methods*. 13 - 5, pp. 425 - 430. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962044966&doi=10.1038%2fnmeth.3830&partnerID=40&md5=edbd865ff7ddc3d29537211d5b1e8abd>>.  
**Type of production:** Scientific paper **Format:** Journal
- 199** T. Gabaldón; L. Carreté. The birth of a deadly yeast: Tracing the evolutionary emergence of virulence traits in *Candida glabrata*. *FEMS Yeast Research*. 16 - 2, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963548203&doi=10.1093%2ffemsyr%2ffov110&partnerID=40&md5=e37f657ecd6e5cc18572cc8d34a9dc9e>>.  
**Type of production:** Scientific paper **Format:** Journal
- 200** M.A. Campbell; A.R.D. Ganley; T. Gabaldón; M.P. Cox. The case of the missing ancient fungal polyploids. *American Naturalist*. 188 - 6, pp. 602 - 614. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996599487&doi=10.1086%2f688763&partnerID=40&md5=5496bd3cdbc731f5a5bda6718f3f0382>>.  
**Type of production:** Scientific paper **Format:** Journal
- 201** A. Figueras; D. Robledo; A. Corvelo; M. Hermida; P. Pereiro; J.A. Rubiolo; J. Gómez-Garrido; L. Carreté; X. Bello; M. Gut; I.G. Gut; M. Marcet-Houben; G. Forn-Cuní; B. Galán; J.L. García; J.L. Abal-Fabeiro; B.G. Pardo; X. Taboada; C. Fernández; A. Vlasova; A. Hermoso-Pulido; R. Guigó; J.A. Álvarez-Dios; A. Gómez-Tato; A. Viñas; X. Maside; T. Gabaldón; B. Novoa; C. Bouza; T. Alioto; P. Martínez. Whole genome sequencing of turbot (*Scophthalmus maximus*; Pleuronectiformes): A fish adapted to demersal life. *DNA Research*. 23 - 3, pp. 181 - 192. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976440510&doi=10.1093%2fdnares%2fdsw007&partnerID=40&md5=d38de1a71591781ab930571edeaedd88>>.  
**Type of production:** Scientific paper **Format:** Journal
- 202** M.A. Naranjo-Ortíz; M. Brock; S. Brunke; B. Hube; M. Marcet-Houben; T. Gabaldón. Widespread inter- and intra-domain horizontal gene transfer of D-amino acid metabolism enzymes in eukaryotes. *Frontiers in Microbiology*. 7 - DEC, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008940773&doi=10.3389%2ffmicb.2016.02001&partnerID=40&md5=c6a3d1c50d09b08d820eaf66f455f15b>>.  
**Type of production:** Scientific paper **Format:** Journal
- 203** P. Furió-Tarí; S. Tarazona; T. Gabaldón; A.J. Enright; A. Conesa. spongeScan: A web for detecting microRNA binding elements in lncRNA sequences. *Nucleic acids research*. 44 - W1, pp. W176 - W180. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015822675&doi=10.1093%2fnar%2ffgkw443&partnerID=40&md5=b3e996778bf19b553050396bbf60dfc9>>.  
**Type of production:** Scientific paper **Format:** Journal
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**Type of production:** Scientific paper **Format:** Journal
- 205** G. Morel; L. Sterck; D. Swennen; M. Marcet-Houben; D. Onesime; A. Levasseur; N. Jacques; S. Mallet; A. Couloux; K. Labadie; J. Amselem; J.-M. Beckerich; B. Henrissat; Y. Van De Peer; P. Wincker; J.-L. Souciet; T. Gabaldón; C.R. Tinsley; S. Casaregola. Differential gene retention as an evolutionary mechanism to generate biodiversity and adaptation in yeasts. *Scientific Reports*. 5, 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84932628455&doi=10.1038%2fsrep11571&partnerID=40&md5=4ba9dd02f91ed0187fba289739354e1>>.  
**Type of production:** Scientific paper **Format:** Journal



- 206** G. Morel; L. Sterck; D. Swennen; M. Marcet-Houben; D. Onesime; A. Levasseur; N. Jacques; S. Mallet; A. Couloux; K. Labadie; J. Amselem; J.-M. Beckerich; B. Henrissat; Y. Van De Peer; P. Wincker; J.-L. Souciet; T. Gabaldón; C.R. Tinsley; S. Casaregola. Erratum: Differential gene retention as an evolutionary mechanism to generate biodiversity and adaptation in yeasts (Scientific Reports (2015) 5 (11571)). *Scientific Reports*. 5, 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938365840&doi=10.1038%2fsrep12596&partnerID=40&md5=f202ed95e07cad5d06bb19daca615e13>>.  
**Type of production:** Scientific paper **Format:** Journal
- 207** M. Mariotti; D. Santesmasses; S. Capella-Gutierrez; A. Mateo; C. Arnan; R. Johnson; S. D'Aniello; S.H. Yim; V.N. Gladyshev; F. Serras; M. Corominas; T. Gabaldón; R. Guigó. Evolution of selenophosphate synthetases: Emergence and relocation of function through independent duplications and recurrent subfunctionalization. *Genome Research*. 25 - 9, pp. 1256 - 1267. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940987431&doi=10.1101%2fgr.190538.115&partnerID=40&md5=1e219bb641e41f07f24c0cb1d29ba918>>.  
**Type of production:** Scientific paper **Format:** Journal
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**Type of production:** Scientific paper **Format:** Journal
- 209** A.-R. Ballester; M. Marcet-Houben; E. Levin; N. Sela; C. Selma-Lázaro; L. Carmona; M. Wisniewski; S. Droby; L. González-Candelas; T. Gabaldón. Genome, transcriptome, and functional analyses of *Penicillium expansum* provide new insights into secondary metabolism and pathogenicity. *Molecular Plant-Microbe Interactions*. 28 - 3, pp. 232 - 248. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923117708&doi=10.1094%2fMPMI-09-14-0261-FI&partnerID=40&md5=2500603d670b78b3bff6cd98d93c1fbb>>.  
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**Type of production:** Scientific paper **Format:** Journal
- 212** S. Patalano; A. Vlasova; C. Wyatt; P. Ewels; F. Camara; P.G. Ferreira; C.L. Asher; T.P. Jurkowski; A. Segonds-Pichon; M. Bachman; I. González-Navarrete; A.E. Minoche; F. Krueger; E. Lowy; M. Marcet-Houben; J.L. Rodriguez-Ales; F.S. Nascimento; S. Balasubramanian; T. Gabaldón; J.E. Tarver; S. Andrews; H. Himmelbauer; W.O.H. Hughes; R. Guigó; W. Reik; S. Sumner. Molecular signatures of plastic phenotypes in two eusocial insect species with simple societies. *Proceedings of the National Academy of Sciences of the United States of America*. 112 - 45, pp. 13970 - 13975. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946763289&doi=10.1073%2fpnas.1515937112&partnerID=40&md5=31c4889b8397a4c1b1fb9ebe6d5014c8>>.  
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- Type of production:** Scientific paper      **Format:** Journal
- 215** B. Boeckmann; M. Marcet-Houben; J.A. Rees; K. Forslund; J. Huerta-Cepas; M. Muffato; P. Yilmaz; I. Xenarios; P. Bork; S.E. Lewis; T. Gabaldón. Quest for Orthologs Entails Quest for Tree of Life: In Search of the Gene Stream. *Genome Biology and Evolution*. 7 - 7, pp. 1988 - 1999. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84965188370&doi=10.1093%2fgeb%2fevv121&partnerID=40&md5=ca46ff8e3cca27b8856ebb1e918eb37>>
- Type of production:** Scientific paper      **Format:** Journal
- 216** M.H. Perlin; J. Amselem; E. Fontanillas; S.S. Toh; Z. Chen; J. Goldberg; S. Duplessis; B. Henrissat; S. Young; Q. Zeng; G. Aguilera; E. Petit; H. Badouin; J. Andrews; D. Razeeq; T. Gabaldón; H. Quesneville; T. Giraud; M.E. Hood; D.J. Schultz; C.A. Cuomo. Sex and parasites: Genomic and transcriptomic analysis of *Microbotryum lychnidis-dioicae*, the biotrophic and plant-castrating anther smut fungus. *BMC Genomics*. 16 - 1, 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84931267244&doi=10.1186%2fs12864-015-1660-8&partnerID=40&md5=ea6c0c7e2f58ad6138764e1d8c4d36c1>>
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- Type of production:** Scientific paper      **Format:** Journal
- 219** R. Aversano; F. Contaldi; M.R. Ercolano; V. Grosso; M. Iorizzo; F. Tatino; L. Xumerle; A.D. Molin; C. Avanzato; A. Ferrarini; M. Delledonne; W. Sanseverino; R.A. Cigliano; S. Capella-Gutierrez; T. Gabaldón; L. Frusciante; J.M. Bradeen; D. Carputo. The *Solanum commersonii* genome sequence provides insights into adaptation to stress conditions and genome evolution of wild potato relatives. *Plant Cell*. 27 - 4, pp. 954 - 968. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84928947664&doi=10.1105%2ftpc.114.135954&partnerID=40&md5=f4b766f53fff0ab272080ab6527c49d4>>
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**Type of production:** Scientific paper **Format:** Journal
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**Type of production:** Scientific paper **Format:** Journal
- 227** V.U. Schwartze; S. Winter; E. Shelest; M. Marcet-Houben; F. Horn; S. Wehner; J. Linde; V. Valiante; M. Sammeth; K. Riege; M. Nowrousian; K. Kaerger; I.D. Jacobsen; M. Marz; A.A. Brakhage; T. Gabaldón; S. Böcker; K. Voigt. Gene Expansion Shapes Genome Architecture in the Human Pathogen *Lichtheimia corymbifera*: An Evolutionary Genomics Analysis in the Ancient Terrestrial Mucorales (Mucoromycotina). *PLoS Genetics*. 10 - 8, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929144085&doi=10.1371%2fjournal.pgen.1004496&partnerID=40&md5=22c7f7eb9e906f02316a98945e08d22>>.  
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- 230** R. Castanera; G. Pérez; L. López; R. Sancho; F. Santoyo; M. Alfaro; T. Gabaldón; A.G. Pisabarro; J.A. Oguiza; L. Ramírez. Highly expressed captured genes and cross-kingdom domains present in Helitrons create novel diversity in *pleurotus ostreatus* and other fungi. *BMC Genomics*. 15 - 1, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924332821&doi=10.1186%2f1471-2164-15-1071&partnerID=40&md5=e0dfae0b80e8407ad235df4d7c0881f7>>.  
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**Type of production:** Scientific paper **Format:** Journal
- 235** T. Schwarzmüller; B. Ma; E. Hiller; F. Istel; M. Tscherner; S. Brunke; L. Ames; A. Firon; B. Green; V. Cabral; M. Marcet-Houben; I.D. Jacobsen; J. Quintin; K. Seider; I. Frohner; W. Glaser; H. Jungwirth; S. Bachellier-Bassi; M. Chauvel; U. Zeidler; D. Ferrandon; T. Gabaldón; B. Hube; C. d'Enfert; S. Rupp; B. Cormack; K. Haynes; K. Kuchler. Systematic Phenotyping of a Large-Scale *Candida glabrata* Deletion Collection Reveals Novel Antifungal Tolerance Genes. *PLoS Pathogens*. 10 - 6, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84903457483&doi=10.1371%2fjournal.ppat.1004211&partnerID=40&md5=b652c016397f8bb6567feef72fc30316>>.  
**Type of production:** Scientific paper **Format:** Journal
- 236** A.D. Chipman; D.E.K. Ferrier; C. Brena; J. Qu; D.S.T. Hughes; R. Schröder; M. Torres-Oliva; N. Znassi; H. Jiang; F.C. Almeida; C.R. Alonso; Z. Apostolou; P. Aqrawi; W. Arthur; J.C.J. Barna; K.P. Blankenburg; D. Brites; S. Capella-Gutiérrez; M. Coyle; P.K. Dearden; L. Du Pasquier; E.J. Duncan; D. Ebert; C. Eibner; G. Erikson; P.D. Evans; C.G. Extavour; L. Francisco; T. Gabaldón; W.J. Gillis; E.A. Goodwin-Horn; J.E. Green; S. Griffiths-Jones; C.J.P. Grimmelikhuijzen; S. Gubbala; R. Guigó; Y. Han; F. Hauser; P. Havlak; L. Hayden; S. Helbing; M. Holder; J.H.L. Hui; J.P. Hunn; V.S. Hunnekuhl; L.R. Jackson; M. Javaid; S.N. Jhangiani; F.M. Jiggins; T.E. Jones; T.S. Kaiser; D. Kalra; N.J. Kenny; V. Korchina; C.L. Kovar; F.B. Kraus; F. Lapraz; S.L. Lee; J. Lv; C. Mandapat; G. Manning; M. Mariotti; R. Mata; T. Mathew; T. Neumann; I. Newsham; D.N. Ngo; M. Ninova; G. Okwuonu; F. Onger; W.J. Palmer; S. Patil; P. Patraquim; C. Pham; L.-L. Pu; N.H. Putman; C. Rabouille; O.M. Ramos; A.C. Rhodes; H.E. Robertson; H.M. Robertson; M. Ronshaugen; J. Rozas; N.

Saada; A. Sánchez-Gracia; S.E. Scherer; A.M. Schurko; K.W. Siggins; D.N. Simmons; A. Stief; E. Stolle; M.J. Telford; K. Tessmar-Raible; R. Thornton; M. van der Zee; A. von Haeseler; J.M. Williams; J.H. Willis; Y. Wu; X. Zou; D. Lawson; D.M. Muzny; K.C. Worley; R.A. Gibbs; M. Akam; S. Richards. The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede *Strigamia maritima*. *PLoS Biology*. 12 - 11, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84912567300&doi=10.1371%2fjournal.pbio.1002005&partnerID=40&md5=f3aad0847b428ce1f4a94e64e0452c92>>

**Type of production:** Scientific paper

**Format:** Journal

**237** G. Kunze; C. Gaillardin; M. Czernicka; P. Durrens; T. Martin; E. Böer; T. Gabaldón; J.A. Cruz; E. Talla; C. Marck; A. Goffeau; V. Barbe; P. Baret; K. Baronian; S. Beier; C. Bleykasten; R. Bode; S. Casaregola; L. Despons; C. Fairhead; M. Giersberg; P.P. Gierski; U. Hähnel; A. Hartmann; D. Jankowska; C. Jubin; P. Jung; I. Lafontaine; V. Leh-Louis; M. Lemaire; M. Marcet-Houben; M. Mascher; G. Morel; G.-F. Richard; J. Riechen; C. Sacerdot; A. Sarkar; G. Savel; J. Schacherer; D.J. Sherman; N. Stein; M.-L. Straub; A. Thierry; A. Trautwein-Schult; B. Vacherie; E. Westhof; S. Worch; B. Dujon; J.-L. Souciet; P. Wincker; U. Scholz; C. Neuvéglise. The complete genome of *Blastobotrys (Arxula) adenivorans* LS3 - A yeast of biotechnological interest. *Biotechnology for Biofuels*. 7 - 1, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84900514784&doi=10.1186%2f1754-6834-7-66&partnerID=40&md5=30efeb0c45b6b71a081f9ac1d24feb84>>

**Type of production:** Scientific paper

**Format:** Journal

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**Type of production:** Scientific paper

**Format:** Journal

**239** J.C. Dohm; A.E. Minoche; D. Holtgräwe; S. Capella-Gutiérrez; F. Zakrzewski; H. Tafer; O. Rupp; T.R. Sörensen; R. Stracke; R. Reinhardt; A. Goesmann; T. Kraft; B. Schulz; P.F. Stadler; T. Schmidt; T. Gabaldón; H. Lehrach; B. Weisshaar; H. Himmelbauer. The genome of the recently domesticated crop plant sugar beet (*Beta vulgaris*). *Nature*. 505 - 7484, pp. 546 - 549. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892801409&doi=10.1038%2fnature12817&partnerID=40&md5=687f91ac6a8388518b75675c261cb763>>

**Type of production:** Scientific paper

**Format:** Journal

**240** R.E. Green; E.L. Braun; J. Armstrong; D. Earl; N. Nguyen; G. Hickey; M.W. Vandewege; J.A. St John; S. Capella-Gutiérrez; T.A. Castoe; C. Kern; M.K. Fujita; J.C. Opazo; J. Jurka; K.K. Kojima; J. Caballero; R.M. Hubley; A.F. Smit; R.N. Platt; C.A. Lavoie; M.P. Ramakodi; J.W. Finger; A. Suh; S.R. Isberg; L. Miles; A.Y. Chong; W. Jaratlerdsiri; J. Gongora; C. Moran; A. Iriarte; J. McCormack; S.C. Burgess; S.V. Edwards; E. Lyons; C. Williams; M. Breen; J.T. Howard; C.R. Gresham; D.G. Peterson; J. Schmitz; D.D. Pollock; D. Haussler; E.W. Triplett; G. Zhang; N. Irie; E.D. Jarvis; C.A. Brochu; C.J. Schmidt; F.M. McCarthy; B.C. Faircloth; F.G. Hoffmann; T.C. Glenn; T. Gabaldón; B. Paten; D.A. Ray. Three crocodylian genomes reveal ancestral patterns of evolution among archosaurs. *Science*. 346 - 6215, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84917697073&doi=10.1126%2fscience.1254449&partnerID=40&md5=819a54f2efe8b67cbfac58385fb985d5>>

**Type of production:** Scientific paper

**Format:** Journal

**241** Pengshan Zhao; Salvador Capella-Gutiérrez; Yong Shi; Xin Zhao; Guoxiong Chen; Toni Gabaldón; Xiao-Fei Ma. Transcriptomic analysis of a psammophyte food crop, sand rice (*Agriophyllum squarrosum*) and identification of candidate genes essential for sand dune adaptation. *BMC Genomics*. 15 - 1, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84931071739&doi=10.1186%2f1471-2164-15-872&partnerID=40&md5=a830f396934ae96b51dd0c0a80e03c75>>

**Type of production:** Scientific paper

**Format:** Journal

**242** E.D. Jarvis; S. Mirarab; A.J. Aberer; B. Li; P. Houde; C. Li; S.Y.W. Ho; B.C. Faircloth; B. Nabholz; J.T. Howard; A. Suh; C.C. Weber; R.R. Da Fonseca; J. Li; F. Zhang; H. Li; L. Zhou; N. Narula; L. Liu; G. Ganapathy; B. Boussau; M.S.





Bayzid; V. Zavidovych; S. Subramanian; T. Gabaldón; S. Capella-Gutiérrez; J. Huerta-Cepas; B. Rekepalli; K. Munch; M. Schierup; B. Lindow; W.C. Warren; D. Ray; R.E. Green; M.W. Bruford; X. Zhan; A. Dixon; S. Li; N. Li; Y. Huang; E.P. Derryberry; M.F. Bertelsen; F.H. Sheldon; R.T. Brumfield; C.V. Mello; P.V. Lovell; M. Wirthlin; M.P.C. Schneider; F. Prosdocimi; J.A. Samaniego; A.M.V. Velazquez; A. Alfaro-Núñez; P.F. Campos; B. Petersen; T. Sicheritz-Ponten; A. Pas; T. Bailey; P. Scofield; M. Bunce; D.M. Lambert; Q. Zhou; P. Perelman; A.C. Driskell; B. Shapiro; Z. Xiong; Y. Zeng; S. Liu; Z. Li; B. Liu; K. Wu; J. Xiao; X. Yinqi; Q. Zheng; Y. Zhang; H. Yang; J. Wang; L. Smeds; F.E. Rheindt; M. Braun; J. Fjeldsa; L. Orlando; F.K. Barker; K.A. Jönsson; W. Johnson; K.-P. Koepfli; S. O'Brien; D. Haussler; O.A. Ryder; C. Rahbek; E. Willerslev; G.R. Graves; T.C. Glenn; J. McCormack; D. Burt; H. Ellegren; P. Alström; S.V. Edwards; A. Stamatakis; D.P. Mindell; J. Cracraft; E.L. Braun; T. Warnow; W. Jun; M.T.P. Gilbert; G. Zhang. Whole-genome analyses resolve early branches in the tree of life of modern birds. *Science*. 346 - 6215, pp. 1320 - 1331. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84917708482&doi=10.1126%2fscience.1253451&partnerID=40&md5=07b344a8872bc9247c9d3fda03c8a398>>.

**Type of production:** Scientific paper

**Format:** Journal

**243** F. Hagen; P.C. Ceresini; I. Polacheck; H. Ma; F. van Nieuwerburgh; T. Gabaldón; S. Kagan; E.R. Pursall; H.L. Hoogveld; L.J.J. van Iersel; G.W. Klau; S.M. Kelk; L. Stougie; K.H. Bartlett; K. Voelz; L.P. Pryszcz; E. Castañeda; M. Lazera; W. Meyer; D. Deforce; J.F. Meis; R.C. May; C.W. Klaassen; T. Boekhout. Ancient Dispersal of the Human Fungal Pathogen *Cryptococcus gattii* from the Amazon Rainforest. *PLoS ONE*. 8 - 8, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84881356342&doi=10.1371%2fjournal.pone.0071148&partnerID=40&md5=13d754df46a15cb63b09fade94172a1>>.

**Type of production:** Scientific paper

**Format:** Journal

**244** T. Gabaldón; T. Martin; M. Marcet-Houben; P. Durrens; M. Bolotin-Fukuhara; O. Lespinet; S. Arnaise; S. Boissard; G. Aguilera; R. Atanasova; C. Bouchier; A. Couloux; S. Creno; J. Almeida Cruz; H. Devillers; A. Enache-Angoulvant; J. Guitard; L. Jaouen; L. Ma; C. Marck; C. Neuvéglise; E. Pelletier; A. Pinard; J. Poulain; J. Recoquilly; E. Westhof; P. Wincker; B. Dujon; C. Hennequin; C. Fairhead. Comparative genomics of emerging pathogens in the *Candida glabrata* clade. *BMC Genomics*. 14 - 1, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84883680169&doi=10.1186%2f1471-2164-14-623&partnerID=40&md5=f9cd737a72233e0eb14eb941298e6ecb>>.

**Type of production:** Scientific paper

**Format:** Journal

**245** E. Jiménez-Guri; J. Huerta-Cepas; L. Cozzuto; K.R. Wotton; H. Kang; H. Himmelbauer; G. Roma; T. Gabaldón; J. Jaeger. Comparative transcriptomics of early dipteran development. *BMC Genomics*. 14 - 1, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84874035558&doi=10.1186%2f1471-2164-14-123&partnerID=40&md5=490b8edbb149c450b678995343398d52>>.

**Type of production:** Scientific paper

**Format:** Journal

**246** L. Morales; B. Noel; B. Porcel; M. Marcet-Houben; M.-F. Hullo; C. Sacerdot; F. Tekaia; V. Leh-Louis; L. Despons; V. Khanna; J.-M. Aury; V. Barbe; A. Couloux; K. Labadie; E. Pelletier; J.-L. Souciet; T. Boekhout; T. Gabaldón; P. Wincker; B. Dujon. Complete DNA sequence of *Kuraishia capsulata* illustrates novel genomic features among budding yeasts (Saccharomycotina). *Genome Biology and Evolution*. 5 - 12, pp. 2524 - 2539. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892559392&doi=10.1093%2fgeb%2fevt201&partnerID=40&md5=085119ddfbea123e81eb89cfb33d026c>>.

**Type of production:** Scientific paper

**Format:** Journal



- 247** J.L. Lavín; M. Marcet-Houben; R.L. Gutiérrez-Vázquez; L. Ramírez; A.G. Pisabarro; T. Gabaldón; J.A. Oguiza. FUNGALOXPHOS: An integrated database for oxidative phosphorylation in fungi. *Mitochondrion*. 13 - 4, pp. 357 - 359. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84877882819&doi=10.1016%2fj.mito.2013.04.009&partnerID=40&md5=f551727c5db5c60bc3c5a549abd03f58>>. **Type of production:** Scientific paper **Format:** Journal
- 248** T. Gabaldón; E.V. Koonin. Functional and evolutionary implications of gene orthology. *Nature Reviews Genetics*. 14 - 5, pp. 360 - 366. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84876665869&doi=10.1038%2fnrg3456&partnerID=40&md5=6fb056f40ee2105d3906f4ac75b2a70e>>. **Type of production:** Scientific paper **Format:** Journal
- 249** J. Collén; B. Porcel; W. Carré; S.G. Ball; C. Chaparro; T. Tonon; T. Barbeyron; G. Michel; B. Noel; K. Valentin; M. Elias; François Artiguenave; A. Arun; J.-M. Aury; J.F. Barbosa-Neto; J.H. Bothwell; F.-Y. Bouget; L. Brillet; F. Cabello-Hurtado; Salvador Capella-Gutiérrez; B. Charrier; L. Cladière; J.M. Cock; S.M. Coelho; C. Colleoni; M. Czjzek; C.D. Silva; L. Delage; F. Denoeud; P. Deschamps; S.M. Dittami; T. Gabaldón; C.M.M. Gachon; A. Groisillier; C. Hervé; K. Jabbari; M. Katinka; B. Kloareg; N. Kowalczyk; K. Labadie; C. Leblanc; P.J. Lopez; D.H. McLachlan; L. Meslet-Cladiere; A. Moustafa; Z. Nehr; P.N. Collén; O. Panaud; F. Partensky; J. Poulain; S.A. Rensing; S. Rousvoal; G. Samson; A. Symeonidi; J. Weissenbach; A. Zambounis; P. Wincker; C. Boyen. Genome structure and metabolic features in the red seaweed *Chondrus crispus* shed light on evolution of the Archaeplastida. *Proceedings of the National Academy of Sciences of the United States of America*. 110 - 13, pp. 5247 - 5252. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84875514054&doi=10.1073%2fpnas.1221259110&partnerID=40&md5=23d9643fc0d7e8e7dc37a3b1a9f6421c>>. **Type of production:** Scientific paper **Format:** Journal
- 250** S. Capella-Gutiérrez; T. Gabaldón. Measuring guide-tree dependency of inferred gaps in progressive aligners. *Bioinformatics*. 29 - 8, pp. 1011 - 1017. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84876275155&doi=10.1093%2fbioinformatics%2fbtt095&partnerID=40&md5=220efc917c62d452a15c3ad6bcda873f>>. **Type of production:** Scientific paper **Format:** Journal
- 251** H. Mohd-Padil; A. Mohd-Adnan; T. Gabaldón. Phylogenetic analyses uncover a novel clade of transferrin in nonmammalian vertebrates. *Molecular Biology and Evolution*. 30 - 4, pp. 894 - 905. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84875621642&doi=10.1093%2fmolbev%2fmss325&partnerID=40&md5=5730df910e109bde5fe6c7912b799361>>. **Type of production:** Scientific paper **Format:** Journal
- 252** S. Traeger; F. Altegoer; M. Freitag; T. Gabaldon; F. Kempken; A. Kumar; M. Marcet-Houben; S. Pöggeler; J.E. Stajich; M. Nowrousian. The Genome and Development-Dependent Transcriptomes of *Pyronema confluens*: A Window into Fungal Evolution. *PLoS Genetics*. 9 - 9, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884682760&doi=10.1371%2fjournal.pgen.1003820&partnerID=40&md5=230beebdd86a802bbb947672c4ea49>>. **Type of production:** Scientific paper **Format:** Journal
- 253** J.D. Evans; S.J. Brown; K.J.J. Hackett; G. Robinson; S. Richards; D. Lawson; C. Elsik; J. Coddington; O. Edwards; S. Emrich; T. Gabaldon; M. Goldsmith; G. Hanes; B. Misof; M. Muñoz-Torres; O. Niehuis; A. Papanicolaou; M. Pfrender; M. Poelchau; M. Purcell-Miramontes; H.M. Robertson; O. Ryder; D. Tagu; T. Torres; E. Zdobnov; G. Zhang; X. Zhou. The i5K initiative: Advancing arthropod genomics for knowledge, human health, agriculture, and the environment. *Journal of Heredity*. 104 - 5, pp. 595 - 600. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84882791773&doi=10.1093%2fjhered%2fest050&partnerID=40&md5=b27a56354eaeab260dc656331a2bc9d>>. **Type of production:** Scientific paper **Format:** Journal
- 254** P.G. Ferreira; S. Patalano; R. Chauhan; R. Ffrench-Constant; T. Gabaldón; R. Guigó; S. Sumner. Transcriptome analyses of primitively eusocial wasps reveal novel insights into the evolution of sociality and the origin of alternative phenotypes. *Genome Biology*. 14 - 2, 2013. Available





on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84874214846&doi=10.1186%2fgb-2013-14-2-r20&partnerID=40&md5=be22e8bd0a9aa09ec6764e5d1928d80f>>.

**Type of production:** Scientific paper

**Format:** Journal

- 255** L.P. Pryszcz; T. Németh; A. Gácsér; T. Gabaldón. Unexpected genomic variability in clinical and environmental strains of the pathogenic yeast *Candida parapsilosis*. *Genome Biology and Evolution*. 5 - 12, pp. 2382 - 2392. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892522981&doi=10.1093%2fgbe%2fevt185&partnerID=40&md5=6637fc6d60064bc8d294590314313cd9>>.

**Type of production:** Scientific paper

**Format:** Journal

- 256** M. Ollivier; T. Gabaldón; J. Poulain; F. Gavory; N. Leterme; J.-P. Gauthier; F. Legeai; D. Tagu; J.C. Simon; C. Rispe. Comparison of gene repertoires and patterns of evolutionary rates in eight aphid species that differ by reproductive mode. *Genome Biology and Evolution*. 4 - 2, pp. 155 - 167. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84865831413&doi=10.1093%2fgbe%2fevr140&partnerID=40&md5=77420628d72023c0f37e68b47dcb4761>>.

**Type of production:** Scientific paper

**Format:** Journal

- 257** J.-H. Lee; K.-L. Wan; A. Mohd-Adnan; T. Gabaldón. Evolution of the ferritin family in vertebrates. *Trends in Evolutionary Biology*. 4 - 1, pp. 8 - 17. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84863823639&doi=10.4081%2feb.2012.e3&partnerID=40&md5=f03ffb1e2d887fccdfbea57d0fde7d97>>.

**Type of production:** Scientific paper

**Format:** Journal

- 258** M. Marcet-Houben; A.-R. Ballester; B. de la Fuente; E. Harries; J.F. Marcos; L. González-Candelas; T. Gabaldón. Genome sequence of the necrotrophic fungus *Penicillium digitatum*, the main postharvest pathogen of citrus. *BMC Genomics*. 13 - 1, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84869233554&doi=10.1186%2f1471-2164-13-646&partnerID=40&md5=5af53a4c3cdfb37d0a0e15ed62815ad4>>.

**Type of production:** Scientific paper

**Format:** Journal

- 259** M. Valach; L.P. Pryszcz; L. Tomaska; A. Gácsér; T. Gabaldón; J. Nosek. Mitochondrial genome variability within the *Candida parapsilosis* species complex. *Mitochondrion*. 12 - 5, pp. 514 - 519. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84864776817&doi=10.1016%2fj.mito.2012.07.109&partnerID=40&md5=ceb2a4549ab41e7d8a10005b207593ec>>.

**Type of production:** Scientific paper

**Format:** Journal

- 260** S. Capella-Gutiérrez; M. Marcet-Houben; T. Gabaldón. Phylogenomics supports microsporidia as the earliest diverging clade of sequenced fungi. *BMC Biology*. 10, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84863210484&doi=10.1186%2f1741-7007-10-47&partnerID=40&md5=0c909162c39a50f5ddd168bd927a21f5>>.

**Type of production:** Scientific paper

**Format:** Journal

- 261** H.M. Bohle; T. Gabaldón. Selection of marker genes using whole-genome DNA polymorphism analysis. *Evolutionary Bioinformatics*. 2012 - 8, pp. 161 - 169. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859465148&doi=10.4137%2fEBO.S8989&partnerID=40&md5=dd5698a2ed998f8542d3ba8b3ac63849>>.

**Type of production:** Scientific paper

**Format:** Journal

- 262** L.L. Silva; M. Marcet-Houben; L.A. Nahum; A. Zerlotini; T. Gabaldón; G. Oliveira. The *Schistosoma mansoni* phylome: Using evolutionary genomics to gain insight into a parasite's biology. *BMC Genomics*. 13 - 1, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84868634147&doi=10.1186%2f1471-2164-13-617&partnerID=40&md5=d66eb91ddf5255906fe51d548220df15>>.

**Type of production:** Scientific paper

**Format:** Journal

- 263** J. García-Mas; A. Benjak; W. Sanseverino; M. Bourgeois; G. Mir; V.M. González; E. Heñaff; F. Cañara; L. Cozzuto; E. Lowy; T. Alioto; S. Capella-Gutiérrez; J. Blancae; J. Cañizares; P. Ziarolo; D. Gonzalez-Ibeas; L.



Rodríguez-Moreno; M. Droege; L. Du; M. Alvarez-Tejado; B. Lorente-Galdos; M. Meleć; L. Yang; Y. Weng; A. Navarro; T. Marques-Bonet; M.A. Aranda; F. Nuez; B. Picó; T. Gabaldón; G. Roma; R. Guigoć; J.M. Casacuberta; P. Aruś; P. Puigdomenech. The genome of melon (*Cucumis melo* L.). *Proceedings of the National Academy of Sciences of the United States of America*. 109 - 29, pp. 11872 - 11877. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84863888434&doi=10.1073%2fpnas.1205415109&partnerID=40&md5=67aa996d0c0729aab7c20c29a0c0977e>>.

**Type of production:** Scientific paper

**Format:** Journal

**264** J. Piškur; Z. Ling; M. Marcet-Houben; O.P. Ishchuk; A. Aerts; K. LaButti; A. Copeland; E. Lindquist; K. Barry; C. Compagno; L. Bisson; I.V. Grigoriev; T. Gabaldón; T. Phister. The genome of wine yeast *Dekkera bruxellensis* provides a tool to explore its food-related properties. *International Journal of Food Microbiology*. 157 - 2, pp. 202 - 209. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862840690&doi=10.1016%2fj.ijfoodmicro.2012.05.008&partnerID=40&md5=daba55c0f3307c2c4b888a8a797d>>.

**Type of production:** Scientific paper

**Format:** Journal

**265** D. Miranda-Saavedra; T. Gabaldón; G.J. Barton; G. Langsley; C. Doerig. The kinomes of apicomplexan parasites. *Microbes and Infection*. 14 - 10, pp. 796 - 810. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84863828202&doi=10.1016%2fj.micinf.2012.04.007&partnerID=40&md5=ba95f027dea1bd8b89bd4043e2486a35>>.

**Type of production:** Scientific paper

**Format:** Journal

**266** C. Dessimoz; T. Gabaldón; D.S. Roos; E.L.L. Sonhammer; J. Herrero; A. Altenhoff; R. Apweiler; M. Ashburner; J. Blake; B. Boeckmann; A. Bridge; E. Bruford; M. Cherry; M. Conte; D. Dannie; R. Datta; J. Domelevo Entfellner; I. Ebersberger; M. Galperin; J. Joseph; T. Koestler; E. Kriventseva; O. Lecompte; J. Leunissen; S. Lewis; B. Linard; M.S. Livstone; H.-C. Lu; M. Martin; R. Mazumder; D. Messina; V. Miele; M. Muffato; G. Perrière; M. Punta; M. Rouard; T. Schmitt; F. Schreiber; A. Silva; K. Sjölander; N. Škunca; E. Stanley; R. Szklarczyk; P. Thomas; I. Uchiyama; M. Van Bel; K. Vandepoele; A.J. Vilella; A. Yates; E. Zdobnov. Toward community standards in the quest for orthologs. *Bioinformatics*. 28 - 6, pp. 900 - 904. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859038699&doi=10.1093%2fbioinformatics%2fbts050&partnerID=40&md5=18d04769b111fe5b78c185ca81d6ad24>>.

**Type of production:** Scientific paper

**Format:** Journal

**267** G. Neurohr; A. Naegeli; I. Titos; D. Theler; B. Greber; J. Díez; T. Gabaldón; M. Mendoza; Y. Barral. A midzone-based ruler adjusts chromosome compaction to anaphase spindle length. *Science*. 332 - 6028, pp. 465 - 468. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79955481245&doi=10.1126%2fscience.1201578&partnerID=40&md5=7447f6a168ee1eb2ccd37afc555bb1a4e>>.

**Type of production:** Scientific paper

**Format:** Journal

**268** J. Huerta-Cepas; T. Gabaldón. Assigning duplication events to relative temporal scales in genome-wide studies. *Bioinformatics*. 27 - 1, pp. 38 - 45. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78650583195&doi=10.1093%2fbioinformatics%2fbtq609&partnerID=40&md5=bf585bbcb227dcf59323b46c69584be3>>.

**Type of production:** Scientific paper

**Format:** Journal

**269** A.F. Vellozo; A.S. Véron; P. Baa-Puyoulet; J. Huerta-Cepas; L. Cottret; G. Febvay; F. Calevro; Y. Rahbé; A.E. Douglas; T. Gabaldón; M.-F. Sagot; H. Charles; S. Colella. CycADS: An annotation database system to ease the development and update of BioCyc databases. *Database*. 2011, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960920661&doi=10.1093%2fdatabase%2fbar008&partnerID=40&md5=699a4f83532ace9034442c85220077d2>>.

**Type of production:** Scientific paper

**Format:** Journal



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**Type of production:** Scientific paper **Format:** Journal
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**Type of production:** Scientific paper**Format:** Journal

- 304** A. Schlüter; S. Fourcade; E. Domènech-Estévez; T. Gabaldón; J. Huerta-Cepas; G. Berthommier; R. Ripp; R.J.A. Wanders; O. Poch; A. Pujol. PeroxisomeDB: A database for the peroxisomal proteome, functional genomics and disease. *Nucleic Acids Research*. 35 - SUPPL. 1, pp. D815 - D822. 2007. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33846093810&doi=10.1093%2fnar%2fgkl935&partnerID=40&md5=d5752191f1a04807d30a27a161c9c325>>.

**Type of production:** Scientific paper**Format:** Journal

- 305** J. Tárraga; I. Medina; L. Arbiza; J. Huerta-Cepas; T. Gabaldón; J. Dopazo; H. Dopazo. Phylemon: A suite of web tools for molecular evolution, phylogenetics and phylogenomics. *Nucleic Acids Research*. 35 - SUPPL.2, pp. W38 - W42. 2007. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34547585235&doi=10.1093%2fnar%2fgkm224&partnerID=40&md5=5c7641d7c974b3f85ba391a680472110>>.

**Type of production:** Scientific paper**Format:** Journal

- 306** T. Gabaldón; J. Peretó; F. Montero; R. Gil; A. Latorre; A. Moya. Structural analyses of a hypothetical minimal metabolism. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 362 - 1486, pp. 1751 - 1762. 2007. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-35148819221&doi=10.1098%2frstb.2007.2067&partnerID=40&md5=7136950ada9d8eca4780cf1276ff3ed2>>.

**Type of production:** Scientific paper**Format:** Journal

- 307** J. Huerta-Cepas; H. Dopazo; J. Dopazo; T. Gabaldón. The human phylome. *Genome Biology*. 8 - 6, 2007. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-36448938389&doi=10.1186%2fgb-2007-8-6-r109&partnerID=40&md5=a3d9e6a7f41e6a582b73c6d0a7d51709>>.

**Type of production:** Scientific paper**Format:** Journal

- 308** T. Gabaldón. Computational approaches for the prediction of protein function in the mitochondrion. *American Journal of Physiology - Cell Physiology*. 291 - 6, pp. C1121 - C1128. 2006. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33845309119&doi=10.1152%2fajpcell.00225.2006&partnerID=40&md5=0b4cd8a5594fcb6eb6f0e41bc6fd898d>>.

**Type of production:** Scientific paper**Format:** Journal

- 309** T. Gabaldón; B. Snel; F. van Zimmeren; W. Hemrika; H. Tabak; M.A. Huynen. Origin and evolution of the peroxisomal proteome. *Biology Direct*. 1, 2006. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33747893546&doi=10.1186%2f1745-6150-1-8&partnerID=40&md5=2214e7f645dfda40f0f68d99a0112cb3>>.

**Type of production:** Scientific paper**Format:** Journal

- 310** B. Boxma; R.M. De Graaf; G.W.M. Van Der Staay; T.A. Van Alen; G. Ricard; T. Gabaldón; A.H.A.M. Van Hoek; S.Y. Moon-Van Der Staay; W.J.H. Koopman; J.J. Van Hellemond; A.G.M. Helens; T. Friedrich; M. Veenhuls; M.A. Huynen; J.H.P. Hackstein. An anaerobic mitochondrion that produces hydrogen. *Nature*.



434 - 7029, pp. 74 - 79. 2005. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-14544284067&doi=10.1038%2fnature03343&partnerID=40&md5=1550fc1a5477d1f1d2a8593a8bbd7bfd>>.

**Type of production:** Scientific paper

**Format:** Journal

- 311** M.A. Huynen; C.A.E.M. Spronk; T. Gabaldón; B. Snel. Combining data from genomes, Y2H and 3D structure indicates that BolA is a reductase interacting with a glutaredoxin. *FEBS Letters*. 579 - 3, pp. 591 - 596. 2005. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-12744251555&doi=10.1016%2fj.febslet.2004.11.111&partnerID=40&md5=9e1a63060a72d460a77acf7fc9f8db4d>>.

**Type of production:** Scientific paper

**Format:** Journal

- 312** T. Gabaldón; M.A. Huynen. Lineage-specific gene loss following mitochondrial endosymbiosis and its potential for function prediction in eukaryotes. *Bioinformatics*. 21 - SUPPL. 2, pp. ii144 - ii150. 2005. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-27544434211&doi=10.1093%2fbioinformatics%2fbti1124&partnerID=40&md5=3e1275cddb44592b21b6945ec5b8df9e>>.

**Type of production:** Scientific paper

**Format:** Journal

- 313** T. Gabaldón; D. Rainey; M.A. Huynen. Tracing the evolution of a large protein complex in the eukaryotes, NADH:ubiquinone oxidoreductase (Complex I). *Journal of Molecular Biology*. 348 - 4, pp. 857 - 870. 2005. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-17444385984&doi=10.1016%2fj.jmb.2005.02.067&partnerID=40&md5=4b2427484f70ba7e4ab26fd429cc32e6>>.

**Type of production:** Scientific paper

**Format:** Journal

- 314** M.A. Huynen; T. Gabaldón; B. Snel. Variation and evolution of biomolecular systems: Searching for functional relevance. *FEBS Letters*. 579 - 8, pp. 1839 - 1845. 2005. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-14844314856&doi=10.1016%2fj.febslet.2005.02.004&partnerID=40&md5=6c0397f7cf1ddfa3c4de5941b97586ba>>.

**Type of production:** Scientific paper

**Format:** Journal

- 315** F. Vella; D. Mietchen; T. Gabaldón. Perceptions about postdocs. *EMBO Reports*. 5 - 12, pp. 1104 - 1104. 2004. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-12144255959&doi=10.1038%2fsj.embor.7400304&partnerID=40&md5=68eb5f0945bcd165df2097a84223c972>>.

**Type of production:** Scientific paper

**Format:** Journal

- 316** T. Gabaldón; M.A. Huynen. Prediction of protein function and pathways in the genome era. *Cellular and Molecular Life Sciences*. 61 - 7-8, pp. 930 - 944. 2004. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-2442423854&doi=10.1007%2fs00018-003-3387-y&partnerID=40&md5=456c5b88802a103d1bf9bfed2889c72c>>.

**Type of production:** Scientific paper

**Format:** Journal

- 317** T. Gabaldón; M.A. Huynen. Shaping the mitochondrial proteome. *Biochimica et Biophysica Acta - Bioenergetics*. 1659 - 2-3, pp. 212 - 220. 2004. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-9644276886&doi=10.1016%2fj.bbambio.2004.07.011&partnerID=40&md5=364277fa049a9b68b0d858f21f3078c5>>.

**Type of production:** Scientific paper

**Format:** Journal

- 318** T. Gabaldón; M.A. Huynen. Reconstruction of the proto-mitochondrial metabolism. *Science*. 301 - 5633, pp. 609 - 609. 2003. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0042266921&doi=10.1126%2fscience.1085463&partnerID=40&md5=f8e23cbbf16f5fe051f25f705cc09a0c>>.

**Type of production:** Scientific paper

**Format:** Journal

- 319** T. Gabaldón; M. Marcet-Houben. Phylogenomics for the study of fungal biology. *Fungal Genomics*, 2nd Edition. 13, pp. 61 - 79. 2014. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991030008&doi=10.1007%2f978-3-642-45218-5\\_3&partnerID=40&md5=42416e4f63a60c49d0dd5f1e6ca653d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991030008&doi=10.1007%2f978-3-642-45218-5_3&partnerID=40&md5=42416e4f63a60c49d0dd5f1e6ca653d)>.

**Type of production:** Scientific book or monograph

**Format:** Book

- 320** T. Gabaldón. Mitochondrial origins. *Organelle Genetics: Evolution of Organelle Genomes and Gene Expression*. 9783642223808, pp. 3 - 18. 2012. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930159985&doi=10.1007%2f978-3-642-22380-8\\_1&partnerID=40&md5=77f33cf5f74b092e4eda58f511ab06d8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930159985&doi=10.1007%2f978-3-642-22380-8_1&partnerID=40&md5=77f33cf5f74b092e4eda58f511ab06d8)>.  
**Type of production:** Scientific book or monograph      **Format:** Book
- 321** T. Gabaldón; M.A. Huynen. Reconstruction of ancestral proteomes. *Ancestral Sequence Reconstruction*. 2008. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920751270&doi=10.1093%2facprof%3aoso%2f9780199299188.003.0012&partnerID=40&md5=90e7ef6ecce5b353c1c68504d4487f51>>.  
**Type of production:** Scientific book or monograph      **Format:** Book
- 322** Linard B; Ebersberger I; McGlynn SE; Glover N; Mochizuki T; Patricio M; Lecompte O; Nevers Y; Thomas PD; Gabaldón T; Sonnhammer E; Dessimoz C; Uchiyama I; QFO Consortium. Ten Years of Collaborative Progress in the Quest for Orthologs. *Molecular Biology and Evolution*. 38 - 8, pp. 3033 - 3045. 2021.  
**Type of production:** Bibliographic review      **Format:** Journal  
**Corresponding author:** No
- 323** Boekhout T; Aime MC; Begerow D; Gabaldón T; Heitman J; Kemler M; Khayhan K; Lachance MA; Louis EJ; Sun S; Vu D; Yurkov A. The evolving species concepts used for yeasts: from phenotypes and genomes to speciation networks. *Fungal Diversity*. 109 - 1, pp. 27 - 55. 2021.  
**Type of production:** Bibliographic review      **Format:** Journal  
**Corresponding author:** No
- 324** Worldwide emergence of fluconazole-resistant *Candida parapsilosis*: current framework and future research roadmap. *Lancet Microbe*. 4 - 6, pp. 470 - 480.  
**Type of production:** Bibliographic review      **Format:** Journal
- 325** Gabaldón T. Roles of the human microbiome in cancer. *Hepatobiliary Surgery & Nutrition*. 10 - 4, pp. 558 - 560. 2021.  
**Type of production:** Comment      **Format:** Journal  
**Corresponding author:** Yes
- 326** Structural characterization of NORAD reveals a stabilizing role of spacers and two new repeat units. 2021.  
**Type of production:** null

### Works submitted to national or international conferences

- 1** **Title of the work:** Crossroads in drug resistance and host adaptation in *Candida* opportunistic pathogens  
**Name of the conference:** European Conference on Fungal Genetics  
**City of event:** Innsbruck, Austria  
**Date of event:** 2023  
**Organising entity:** PCO Tyrol Congress      **Type of entity:** Private  
**City organizing entity:** Innsbruck,
- 2** **Title of the work:** From Genotype to Phenotype  
**Name of the conference:** Company of Biologists Workshop  
**City of event:** East Sussex, United Kingdom  
**Date of event:** 2022  
**Organising entity:** Company of Biologists      **Type of entity:** not-for-profit publishing organisation  
**City organizing entity:** United Kingdom



- 3** **Title of the work:** Organizer and Oral presentation  
**Name of the conference:** EMBO workshop on comparative genomics of microbial eukaryotes  
**Date of event:** 2022  
**Organising entity:** EMBO  
**City organizing entity:** Catalonia, Spain
- 4** **Title of the work:** Origin of new lineages by hybridization: genomes, species, and the taxonomic conundrum  
**Name of the conference:** Symposium Rise of the Fungi  
**City of event:** Amsterdam, Holland  
**Date of event:** 2022  
**Organising entity:** Royal Netherlands Academy of Arts and Sciences (KNAW)    **Type of entity:** Academy  
**City organizing entity:** Amsterdam, Holland
- 5** **Title of the work:** Origin of *Candida albicans* and related species by hybridization  
**Name of the conference:** Microbial Society *Candida* and Candidiasis meeting  
**City of event:** Online, United Kingdom  
**Date of event:** 2021  
**Organising entity:** Microbial Society  
**City organizing entity:** London, United Kingdom
- 6** **Title of the work:** EMBO Workshop: Experimental Approaches to Evolution and Ecology Using Yeast and Other Model Systems (online)  
**Date of event:** 2020  
**Organising entity:** EMBO
- 7** **Title of the work:** Organizer and Oral presentation  
**Name of the conference:** EMBO workshop on comparative genomics of microbial eukaryotes  
**Date of event:** 2019  
**Organising entity:** EMBO  
**City organizing entity:** Catalonia, Spain
- 8** **Title of the work:** Invited Plenary Speaker  
**Name of the conference:** European Fungal Genetics Meeting  
**Date of event:** 2017  
**Organising entity:** Federation of European Microbiological Societies  
**City organizing entity:** Israel
- 9** **Title of the work:** Invited Plenary Speaker  
**Name of the conference:** IUMS International Union of Microbiological Societies Meeting  
**Date of event:** 2017  
**Organising entity:** International Union of Microbiological Societies (IUMS)  
**City organizing entity:** Singapore
- 10** **Title of the work:** Organizer and Oral presentation  
**Name of the conference:** EMBO workshop on comparative genomics of microbial eukaryotes  
**Date of event:** 2017  
**Organising entity:** EMBO  
**City organizing entity:** Catalonia, Spain



**11 Title of the work:** Keynote speaker

**Name of the conference:** XXI National Congress of Biochemistry

**Date of event:** 2016

**Organising entity:** SOCIEDAD MEXICANA DE BIOQUÍMICA

**City organizing entity:** Mexico

**12 Title of the work:** Organizer and Oral presentation

**Name of the conference:** EMBO workshop on comparative genomics of microbial eukaryotes

**Date of event:** 2015

**Organising entity:** EMBO

**City organizing entity:** Catalonia, Spain