



C V n CURRÍCULUM VÍTAE NORMALIZADO



Arnau Montagud Aquino

Generated from: Editor CVN de FECYT Date of document: 31/01/2024

v 1.4.3

ec76386445ded485b4a741a56fe18a5a

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: http://cvn.fecyt.es/







Arnau Montagud Aquino

Surname(s): Montagud Aquino

Name: Arnau DNI: 24391980C

ORCID: **0000-0002-7696-1241**

 ScopusID:
 34873203400

 ResearcherID:
 B-8001-2008

GitHub web page: https://github.com/ArnauMontagud

Date of birth: 18/04/1983
Gender: Male
Nationality: Spain
Country of birth: Spain

Aut. region/reg. of birth: Valencian Community

Contact province: Valencia
City of birth: Valencia

Contact address: C/Catedrático Agustín Escardino, 9, Edificio 4
Rest of contact address: Parc Cientific de la Universitat de València

Postcode: 46980 Contact country: Spain

Contact aut. region/reg.: Valencian Community

Contact city: Paterna

Land line phone: (+34) 963544810

Email: arnau.montagud@csic.es

Personal web page: https://arnaumontagud.netlify.app/

Current professional situation

Employing entity: Consejo Superior de Type of entity: State agency

Investigaciones Científicas

Department: Institute for Integrative Systems Biology (I2SysBio)

Professional category: Distinguished Educational Management (Yes/No): No

Researcher

City employing entity: Paterna, Valencian Community, Spain

Email: arnau.montagud@csic.es

Start date: 01/01/2024

Type of contract: Temporary employment Dedication regime: Full time

contract

Primary (UNESCO code): 240700 - Cell biology; 249900 - Other biological specialities

Secondary (UNESCO code): 240900 - Genetics; 241000 - Human biology

Tertiary (UNESCO code): 120311 - Computer software

Identify key words: Cell biology; Molecular biology; Computational biology; Genetics

Previous positions and activities







| | Employing entity | Professional category | Start date |
|---|-------------------------------------|------------------------|------------|
| 1 | Centro Nacional de Supercomputación | Established Researcher | 01/01/2019 |
| 2 | Institut Curie | Postdoc researcher | 13/01/2014 |
| 3 | Universidad Politécnica de Valencia | Postdoc researcher | 01/06/2012 |
| 4 | Universidad Politécnica de Valencia | Estudiante predoc | 01/04/2007 |

1 Employing entity: Centro Nacional de Type of entity: R&D Centre

Supercomputación

Department: Life Sciences, Barcelona Supercomputing Center

City employing entity: Barcelona, Catalonia, Spain

Professional category: Established Researcher Educational Management (Yes/No): No

Start-End date: 01/01/2019 - 31/12/2023 **Duration:** 5 years

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 240700 - Cell biology; 249900 - Other biological specialities

Secondary (UNESCO code): 240900 - Genetics; 241000 - Human biology

Tertiary (UNESCO code): 120311 - Computer software

Performed tasks: I have worked in having personalised real-sized tumour simulations in projects focused on the scaling up of simulations and online monitoring using High-performance computation and on the simulation of paediatric cancers. Additionally, one of my goals at BSC was to ease the migration of Systems Biology tools to world-leading high-performance computing platforms, such as MareNostrum4. Thus, I have incorporated the latest parallelisation and optimisation techniques to modelling tools and focusing these in biological problems that need the use of massive parallel platforms such as the simulations of real-sized tumours. These works were the basis of several competitive calls for funding that I have prepared, personal and consortium-based.

Identify key words: Cell biology; Molecular biology; Computational biology; Genetics

Field of management activity: Public Research Body

Applicability in teaching and/or research: The research that I have performed at BSC with my colleagues is in the process of being published in top-ranking journals. Additionally, I have worked in bringing together two very different fields, such as high-performance computing and Life Sciences, so that the latest research in machine learning, data deconvolution and modelling can be migrated with little efforts to platforms were it can address high-impact questions.

2 Employing entity: Institut Curie **Type of entity:** Public Research Body

Department: U900 - Systems Biology of Cancer **City employing entity:** Paris, Île de France, France

Professional category: Postdoc researcher
Start-End date: 13/01/2014 - 31/12/2018
Educational Management (Yes/No): No
Duration: 4 years - 11 months - 19

days

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 240700 - Cell biology; 249900 - Other biological specialities

Secondary (UNESCO code): 240900 - Genetics; 320713 - Oncology

Tertiary (UNESCO code): 110208 - Mathematical logic; 120311 - Computer software

Performed tasks: I have been involved in projects with three different types of cancer: breast, medulloblastoma and prostate cancer. I have studied theses using four different approaches: I used data deconvolution to discover new relevant signatures; I used pathway enrichment tools to better describe and group patients; I built Boolean models, published pipelines and tools to better capture patients' diversity and drug predictions; and I co-authored a multiscale modelling framework that combines agent-based and Boolean modelling.

Applicability in teaching and/or research: Research performed in this position opened new avenues on how to adress and incorporate signalling pathways modelling with interactions between cells and their surrounding environment. To perform this, I collaborated with colleagues from US,







France, UK and Germany in projects I co-wrote with them in funding calls from the EU and France. This position also allowed me to connect with new communities such as the agent-based and Boolean modelling ones, and havin active collaborations with clinicians and medical practicioners. Additionally, I continued my teaching efforts with international seminars and courses on Systems Biology.

3 Employing entity: Universidad Politécnica de Type of entity: University

Valencia

Department: Instituto Universitario de Matemática Pura y Aplicada **City employing entity:** Valencia, Valencian Community, Spain

Professional category: Postdoc researcher Educational Management (Yes/No): No

Start-End date: 01/06/2012 - 10/01/2014

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 241403 - Bacterial metabolism

Secondary (UNESCO code): 230212 - Fermentation; 240701 - Cell culture

Tertiary (UNESCO code): 120709 - Linear programming

Performed tasks: I worked on the use of multi-objective optimizations on flux balance analysis and on models of the scaling up of the production of hydrogen in Synechocystis sp. PCC6803. I mentored 5 MSc and 2 PhD students.

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified organisms; Control of biosystems and bioprocessings

Applicability in teaching and/or research: In this position I finished several topics from my PhD project. Specifically, I helped secure the project funding by co-writing an EU-funded project (CyanoFactory) that took the metabolic models to the chemostat, shifting the focus of the project to a more engineering one. In this period, I continued with the mentoring of MSc and PhD students that expanded my research in other cyanobacteria and continued developing tools for metabolic modelling.

4 Employing entity: Universidad Politécnica de Type of entity: University

Valencia

Department: Instituto Universitario de Matemática Pura y Aplicada **City employing entity:** Valencia, Valencian Community, Spain

Professional category: Estudiante predoc Educational Management (Yes/No): No

Start-End date: 01/04/2007 - 01/06/2012

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Primary (UNESCO code): 241403 - Bacterial metabolism

Secondary (UNESCO code): 230212 - Fermentation; 240701 - Cell culture

Tertiary (UNESCO code): 120709 - Linear programming

Performed tasks: I built the first genome-scale metabolic model of Synechocystis sp. PCC6803 and I used flux balance analysis to simulate for the first time a single metabolic network under different growth conditions, with completely different flux landscapes. I also proposed several mutants that would enhance the cyanobacterium's potentialities as a production platform. Lastly, I studied the transcriptomics of metabolic changes upon light regime changes.

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified organisms; Control of biosystems and bioprocessings

Applicability in teaching and/or research: Tasks performed in this position allowed me to publish my first first-author papers, attend several conferences and connecting with the vibrant communities of System Biology and Metabolic Engineering. The knowledge and abilities gathered in this position enabled me to help my supervisors and colleagues in starting managing budgets, grant applications and students and tasks otherwise meant for senior researchers. In terms of teaching, I helped design and build the syllabus of a course on Synthetic Biology, Systems Biology and Metabolic Engineering that we taught at the "Centro de Formación Permanente" of the Universitat Politècnica de València





for 4 years. This syllabus was then continued by collaborators as a course in the Bioinformatic Master school of the Universitat Politècnica de València. Notably, I was the main driver of my group's contribution to the international Synthetic Biology competition from 2007 to 2011.







Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Biología (BSc in Biology)

City degree awarding entity: Valencia, Valencian Community, Spain

Degree awarding entity: Universitat de València Type of entity: University

Date of qualification: 24/07/2006

Average mark: Excellent

Doctorates

Doctorate programme: Doctor en Programa Oficial de Posgrado en Matemáticas (PhD)

Degree awarding entity: Universidad Politécnica de Type of entity: University

Valencia

City degree awarding entity: Valencia, Valencian Community, Spain

Date of degree: 17/04/2012

DEA awarding entity: Universitat de València

Date DEA was awarded: 19/02/2008

European doctorate: Yes Date of certificate: 26/06/2012

Thesis title: Modelling and analysis of biological systems to obtain biofuels

Thesis director: Javier Fermín Urchueguía

Thesis co-director: Pedro Fernández de Córdoba; Kiran R Patil

Obtained qualification: Cum Laude, Mención Internacional, Premio extraordinario de tesis doctoral

Recognition of quality: Yes

Special doctorate award: Yes Date of award: 26/05/2013

Other postgraduate university studies

Type of education: Masters

Postgraduate qualification: Máster Universitario en Biología Molecular, Celular y Genética (MSc)

City degree awarding entity: Valencia, Valencian Community, Spain

Degree awarding entity: Universitat de València Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Biológicas

Date of qualification: 19/02/2008 **Obtained qualification:** 7.3 / 10







Language skills

| Language | Listening skills | Reading skills | Spoken interaction | Speaking skills | Writing skills |
|----------|------------------|----------------|--------------------|-----------------|----------------|
| French | C2 | C2 | C1 | C1 | C1 |
| English | C2 | C2 | C1 | C1 | C1 |
| Catalan | C2 | C2 | C2 | C2 | C2 |
| Spanish | C2 | C2 | C2 | C2 | C2 |

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 Project title: High Performance Finite Volume Methods solver for multi-scale cell simulations

Type of project: Minor thesis

Co-director of thesis: Arnau Montagud; Carlos Alvarez

Entity: Universitat Politècnica de Catalunya Type of entity: University

City of entity: Barcelona, Catalonia, Spain

Student: Jose Estragués

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 07/2023 European doctorate: No Quality recognition: Yes

2 Project title: Using clinical images to tailor complex environment architectures of multiscale cell populations

Type of project: Minor thesis

Co-director of thesis: Arnau Montagud; M Ponce-de-Leon

Entity: FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA

City of entity: Barcelona, Catalonia, Spain

Student: Alejandro Madrid

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 07/2023 European doctorate: No Quality recognition: Yes

3 Project title: Development of a compendium of models of different cellular transport systems within a multiscale

modelling framework

Type of project: Minor thesis

Co-director of thesis: Arnau Montagud; M Ponce-de-Leon

Entity: FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA

City of entity: Barcelona, Catalonia, Spain

Student: Othmane Hayoun

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 15/07/2022







European doctorate: No **Quality recognition:** Yes

4 Project title: Optimization for simulating multicellular systems with the Software PhysiBoSS using Backtracking

Adaptive Search

Type of project: Minor thesis

Co-director of thesis: Arnau Montagud; M Ponce-de-Leon; D Cirillo

Entity: TECHNISCHE UNIVERSITÄT DRESDEN

Type of entity: University

City of entity: Dresden, Germany

Student: Janina Schreiber

Obtained qualification: Sobresaliente

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 02/11/2020 European doctorate: No

Quality recognition: Yes Date of award: 14/07/2020

5 Project title: Simulation of drug effects in a multiscale model tailored to prostate cell lines

Type of project: Minor thesis

Co-director of thesis: A Montagud; M Ponce-de-Leon

Entity: FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA

City of entity: Barcelona, Catalonia, Spain

Student: Annika Meert

Obtained qualification: Sobresaliente

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 15/07/2021 **European doctorate:** No

Quality recognition: Yes Date of award: 14/07/2020

6 Project title: Simulation of drug interactions in a gastric adenocarcinoma Boolean model

Type of project: Minor thesis

Co-director of thesis: A Montagud; M Ponce-de-Leon

Entity: FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA

City of entity: Barcelona, Catalonia, Spain

Student: Gerard Pradas

Obtained qualification: Sobresaliente

Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 17/07/2020 European doctorate: No

Quality recognition: Yes Date of award: 14/07/2020

7 Project title: Reconstrucción de modelos específicos de contexto en líneas celulares de cáncer para identificar

genes esenciales metabólicos y predecir nuevas dianas terapéuticas

Type of project: Minor thesis

Co-director of thesis: Arnau Montagud; M Ponce-de-Leon

Entity: Instituto de Salud Carlos III

Type of entity: Public Research Body

City of entity: Madrid, Community of Madrid, Spain

Student: Estrella Esquivel de la Fuente **Obtained qualification:** Sobresaliente







Identify key words: Mathematics; Applied biology; Cell biology; Computational biology; Genetic engineering;

Computer systems

Date of reading: 10/07/2020 European doctorate: No Quality recognition: No

8 Project title: Multiobjective optimization of cyanobacterial metabolic models

Type of project: Doctoral thesis

Co-director of thesis: Fernández de Córdoba, Pedro J; Reynoso Meza, Gilberto; Montagud Aguino, Arnau

Entity: Universidad Politécnica de Valencia Type of entity: University

City of entity: València, Valencian Community, Spain

Student: Maria Siurana Paula

Obtained qualification: Sobresaliente

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified

organisms; Control of biosystems and bioprocessings

Date of reading: 27/09/2017 European doctorate: Yes

Quality recognition: Yes Date of award: 27/09/2017

9 Project title: Adaptación de herramientas de optimización monoobjetivo y multiobjetivo aplicadas a problemas de

simulación de sistemas biológicos **Type of project:** Minor thesis

Co-director of thesis: Pedro José Fernández de Córdoba Castellá; Arnau Montagud; Gilberto Reynoso Meza

Entity: Universidad Politécnica de Valencia Type of entity: University

City of entity: València, Valencian Community, Spain

Student: Maria Siurana Paula

Obtained qualification: Sobresaliente

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified

organisms; Control of biosystems and bioprocessings

Date of reading: 15/09/2014 **Date of award:** 15/09/2014

10 Project title: Model-based analysis and metabolic design of a cyanobacterium for bio-products synthesis

Type of project: Doctoral thesis

Co-director of thesis: Pedro J. Fernández de Córdoba; Arnau Montagud; Javier F. Urchueguía Schölzel

Entity: Universidad Politécnica de Valencia Type of entity: University

City of entity: València, Valencian Community, Spain

Student: Julián Triana Dopico

Obtained qualification: Sobresaliente

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified

organisms; Control of biosystems and bioprocessings

Date of reading: 24/07/2014
European doctorate: No

Quality recognition: Yes Date of award: 24/07/2014

11 Project title: Reconstrucción de un modelo metabólico para Synechococcus elongatus PCC 7942 y exploración

de aplicaciones potenciales **Type of project:** Minor thesis

Co-director of thesis: Rafael Diego Maldonado Caro; Arnau Montagud

Entity: Universidad de Alicante Type of entity: University

City of entity: Alacant, Valencian Community, Spain







Student: Maria Siurana Paula

Obtained qualification: Sobresaliente

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified

organisms; Control of biosystems and bioprocessings

Date of reading: 13/09/2012 **Date of award:** 13/09/2012

12 Project title: Strategies for the optimisation of hydrogen production in photosynthetic bacteria

Type of project: End of course project

Co-director of thesis: Pedro J. Fernández de Córdoba; Arnau Montagud; Javier F. Urchueguía

Entity: Universidad Politécnica de Valencia Type of entity: University

City of entity: València, Valencian Community, Spain

Student: Maria Siurana Paula

Obtained qualification: Sobresaliente

Identify key words: Calculus variations and optimal control: optimization; Applied biology; Genetically modified

organisms; Control of biosystems and bioprocessings

Date of reading: 21/12/2011 **Date of award:** 21/12/2011

Educational or pedagogical publications, books, articles, etc.

Arnau Montagud. Presente y futuro de los modelos matemáticos en la lucha contra el cáncer, 17/10/2014. Available on-line at: https://doi.org/10.6084/m9.figshare.1207974>.

Name of the materials: Monographic material on the use of modelling in cancer research

Date of drafting: 17/10/2014

Format: Article(s)

Corresponding author: Yes

DOI: 10.6084/m9.figshare.1207974

2 Carles Palanca; Juny Crespo; Cristina Vilanova; Guillem Marco; Sara Rivera; Angeles Hueso; Miguel Pitarch; Eduardo Otero; Jerzy Szablowski; Arnau Montagud; Emilio Navarro; Manuel Porcar. Sins, Ethics and Biology, pp. 1 - 89. Valencia iGEM team. 2013.

Name of the materials: Study on the ethical implications of Synthetic Biology

Date of drafting: 2013

Format: Book

Corresponding author: No

DOI: 10.6084/m9.figshare.1206372

A. Montagud; E. Navarro; P. Fernández de Córdoba; J.F. Urchueguia. Introduction to Synthetic Biology, pp. 1-

470. Valencian Community (Spain): PoliCLICK. 2008. ISBN 978-84-691-5074-0

Name of the materials: Syllabus material for the course "Introduction to Synthetic Biology"

Date of drafting: 2008

Format: Book

Corresponding author: Yes







Other activities/achievements not included above

1 Description of the activity: Organisation of an interdisciplinary group of students at the annual international iGEM Synthetic Biology competition from 2007 to 2011

Identify key words: Communication and information: circuits; Mathematical analysis; Genetically modified organisms; Information technology and adata processing; Electronic circuits; Automatic; Electric engineering

City of activity: Boston, United States of America

Organising entity: Massachusetts Institute of Type of entity: University

Technology End date: 2011

Description of the activity: Participation as a student at the iGEM Synthetic Biology competition in 2006 **Identify key words:** Communication and information: circuits; Mathematical analysis; Genetically modified organisms; Information technology and adata processing; Electronic circuits; Automatic; Electric engineering

City of activity: Boston, United States of America

Organising entity: Massachusetts Institute of Type of entity: University

Technology **End date:** 2006

Scientific and technological experience

Scientific or technological activities

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

Name of the project: Critical Action Planning over Extreme-Scale Data (Crexdata)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Antonis Deligiannakis

N° of researchers: 30 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2023 - 01/01/2026

Total amount: 8.698.105 €

2 Name of the project: An ecosystem for digital twins in healthcare (Edith)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Lisbeth Geris

N° of researchers: 30 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain







Start-End date: 01/10/2022 - 01/10/2024

Total amount: 4.997.333,35 €

3 Name of the project: Computational Modelling and Functional Validation Platform for Personalised

Colorectal Cancer Clinical Therapy Decision Support (Oncologics)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Asmund Flobak

N° of researchers: 15 Funding entity or bodies:

ERA-NET PerMed

City funding entity: Bruselas, Belgium Start-End date: 01/10/2021 - 01/10/2024

Total amount: 199.704 €

4 Name of the project: Exascale/HPC Centre of Excellence in Personalised Medicine (PerMedCoE)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Alfonso Valencia; Arnau Montagud

N° of researchers: 25 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/10/2020 - 01/10/2023

Total amount: 4.999.567,5 €

5 Name of the project: BSC-HUAWEI HPC Technology Innovation Lab

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Mateo Valero

N° of researchers: 25 Funding entity or bodies:

Huawei Type of entity: Business

City funding entity: China

Start-End date: 01/07/2020 - 01/07/2023

Total amount: 400.000 €

Name of the project: Extracción de perfiles de comorbilidad personalizados y de trayectorias basadas en

datos multi-ómicos (EPICStemic)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Alfonso Valencia

Funding entity or bodies:

Ministerio de Ciencia e Innovación Type of entity: Ministry

City funding entity: Madrid, Community of Madrid, Spain







Start-End date: 01/01/2019 - 01/01/2022

7 Name of the project: Individualized Paediatric Cure (iPC)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Julio Sáez-Rodríguez

Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2019 - 01/01/2022

Total amount: 15.159.851 €

8 Name of the project: Interactive Extreme-Scale Analytics and Forecasting (INFORE)

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Antonis Deligiannakis; Alfonso Valencia; Arnau Montagud

N° of researchers: 25 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2019 - 01/01/2022

Total amount: 4.435.586,25 €

9 Name of the project: High performance computing of multi-scale model of gastric cancer

Entity where project took place: Centro Nacional Type of entity: R&D Centre

de Supercomputación

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Arnau Montagud; Miguel Ponce de León; Alfonso Valencia

N° of researchers: 3 Funding entity or bodies:

Red Española de Supercomputación Type of entity: State agency

City funding entity: Barcelona, Catalonia, Spain

Start-End date: 01/07/2019 - 01/11/2019

10 Name of the project: Personalized Engine for Cancer Integrative Study and Evaluation (PrECISE)

Entity where project took place: Institut Curie Type of entity: Public Research Body

City of entity: Paris, Île de France, France

Name principal investigator (PI, Co-PI....): Julio Sáez-Rodríguez; Arnau Montagud; L Calzone; E Barillot

N° of researchers: 30 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2015 - 31/12/2018

Total amount: 5.695.712,5 €







11 Name of the project: Multi-scale modelling of molecular mechanisms in medulloblastoma (M5)

Entity where project took place: Institut Curie Type of entity: Public Research Body

City of entity: Paris, Île de France, France

Name principal investigator (PI, Co-PI....): Olivier Ayrault

N° of researchers: 8 Funding entity or bodies:

AVIESAN Type of entity: State agency

City funding entity: Paris, Île de France, France

Institut National du Cancer (INCa)

Type of entity: State agency

City funding entity: Paris, Île de France, France

Start-End date: 01/12/2015 - 01/12/2018

Total amount: 600.000 €

12 Name of the project: Scaling-up System Biology modelling tools to High-Performance Computing

Type of project: Basic research (including Geographical area: Regional

archaeological digs, etc)

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Consejo Superior Type of entity: State agency

de Investigaciones Científicas

City of entity: València, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Arnau Montagud

N° of researchers: 4 Funding entity or bodies:

Generalitat Valenciana Type of entity: Public Govenment

Type of participation: Principal investigator

Name of the programme: GenT

Code according to the funding entity: CIDEXG/2023/22

Start-End date: 01/01/2024 - 21/12/2017 Duration: 4 years
Participating entity/entities: Consejo Superior de Investigaciones Científicas

Total amount: 507.298,4 €
Percentage as grant: 100
Dedication regime: Full time

13 Name of the project: Multiscale mathematical modelling of tumour invasion (INVADE)

Entity where project took place: Institut Curie Type of entity: Public Research Body

City of entity: Paris, Île de France, France

Name principal investigator (PI, Co-PI....): Emmanuel Barillot

N° of researchers: 13 Funding entity or bodies:

ITMO Cancer Type of entity: State agency

City funding entity: Paris, Île de France, France

Start-End date: 13/01/2014 - 01/11/2016

Total amount: 677.000 €

14 Name of the project: Design, construction and demonstration of solar biofuel production using novel

(photo)synthetic cell factories (CyanoFactory)

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain







Name principal investigator (PI, Co-PI....): Javier Fermín Urchueguía Schölzel

N° of researchers: 8 Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 02/04/2013 - 02/04/2016

Total amount: 3.914.852,4 €

Applicant's contribution: Number 308518

Name of the project: PIONEERS INTO PRACTICE - PIONEER Arnau Montagud
Entity where project took place: Universidad
Type of entity: University

Politécnica de Valencia

Name principal investigator (PI, Co-PI....): Arnau Montagud Aquino

Nº of researchers: 1 Funding entity or bodies:

ASSOCIATION CLIMATE KIC Type of entity: CLIMATE KIC

City funding entity: Bruselas, Belgium Start-End date: 01/04/2013 - 01/01/2014

Total amount: 8.000 €

16 Name of the project: INTEGRACION DE BASES DE DATOS BIOLOGICAS CON NUEVAS

HERRAMIENTAS DE COMPUTO EN BIOLOGIA SINTETICA ORIENTADAS A LA PRODUCCION DE

BIOCOMBUSTIBLES (TIN2009-12359)

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Pedro José Fernández De Córdoba Castellá

N° of researchers: 4 Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Start-End date: 01/01/2010 - 01/01/2013

Total amount: 44.044 €

17 Name of the project: ACCIONES EDUCATIVAS, DEPORTIVAS, SOCIALES Y SANITARIAS EN LA

UNIVERSIDAD DE PINAR DEL RIO (CUBA) (3012/2009)

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Pedro José Fernández De Córdoba Castellá

N° of researchers: 13 Funding entity or bodies:

Generalitat Valenciana Type of entity: GVA

City funding entity: Valencia, Valencian Community, Spain

Start-End date: 15/05/2009 - 15/05/2012

Total amount: 65.000 €







Name of the project: COMPUTATIONAL ASSISTED MODELLING OF SYNECHOCYSTIS SP PCC6803 GROWTH IN ORDER TO PRODUCE A CHASSIS FOR HYDROGEN PRODUCTION (HP2008-0079)

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Javier Fermín Urchueguía Schölzel

N° of researchers: 4 Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Start-End date: 01/01/2009 - 01/01/2011

Total amount: 8.500 €

19 Name of the project: BIOMODULARH2: ENGINEERED MODULAR BACTERIAL HYDROGEN

PHOTOPRODUCTION OF HYDROGEN (ACOMP/2009/244

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Javier Fermín Urchueguía Schölzel

N° of researchers: 5 Funding entity or bodies:

Generalitat Valenciana Type of entity: GVA

City funding entity: Valencia, Valencian Community, Spain

Start-End date: 15/01/2007 - 15/07/2010

Total amount: 10.000 €

20 Name of the project: ENGINEERED MODULAR BACTERIAL HYDROGEN PHOTOPRODUCTION OF

HYDROGEN (BIOMODULARH2) (043340)

Entity where project took place: Universidad Type of entity: University

Politécnica de Valencia

City of entity: Valencia, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Pedro José Fernández De Córdoba Castellá; Javier Fermín

Urchueguía Schölzel
Nº of researchers: 13
Funding entity or bodies:

Comisión Europea Type of entity: UE

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 15/01/2007 - 15/07/2010

Total amount: 2.352.340 €







Results

Technological results derived from specialized and transfer activities, not included in previous sections

1 Description: Repository of the community benchmark of multiscale tools from PerMedCoE

Name of the principal Investigator (PI): Arnau Montagud

Degree of contribution: Coordinator of total project, network or consortium

Geographical area: European Union Collaborating entity or bodies:

Centro Nacional de Supercomputación Type of entity: R&D Centre

Start date: 01/03/2022

Relevant results: One of the tasks of PerMedCoE was to establish an observatory of tools to remain aware of software, algorithms and standards developed around cell-based modelling. Further, PerMedCoE aimed to contact the tools' developers responsible for these developments and to involve them to have community-driven benchmarks with their tools and the tools from PerMedCoE. Thus, Task 3.1 connects efforts directed towards having the observatory of tools and the efforts directed towards having benchmark activities among these tools and PerMedCoE's own. Link: https://github.com/PerMedCoE/observatory_benchmark

2 Description: Repository of data, code and analyses of PROFILE v2

Name of the principal Investigator (PI): Arnau Montagud

Name of the Co-principal investigator (Co-PI): Laurence Calzone

Degree of contribution: Coordinator of total project, network or consortium

Geographical area: European Union Collaborating entity or bodies:

Institut Curie Type of entity: Public Research Body

City collaborating entity: París, France

Centro Nacional de Supercomputación Type of entity: R&D Centre

Start date: 28/01/2022 Duration: 1 year - 11 months

Relevant results: This is a repository of code and analyses related to the paper "Patient-specific Boolean models of signaling networks guide personalized treatments". The paper can accessed here: https://elifesciences.org/articles/72626. Present code is an extension to use the PROFILE tool, to simulate patient-specific drug inhibitions to find patient-specific treatments. Link:

https://github.com/ArnauMontagud/PROFILE_v2

3 Description: Repository of data, code and analyses for the personalization of logical models with multi-omics data

Name of the principal Investigator (PI): Laurence Calzone
Name of the Co-principal investigator (Co-PI): Arnau Montagud

Degree of contribution: Scientific coordinator

Geographical area: European Union **Collaborating entity or bodies:**

Institut Curie Type of entity: Public Research Body

City collaborating entity: Paris, France

Start date: 28/02/2018 Duration: 1 year - 11 months

Relevant results: We present here a novel framework, referred to as PROFILE, to tailor logical models to a particular biological sample such as a patient tumor. This methodology permits to compare the model





simulations to individual clinical data, i.e., survival time. Our approach focuses on integrating mutation data, copy number alterations (CNA), and expression data (transcriptomics or proteomics) to logical models. In the present pipeline, two different datasets may be used (METABRIC or TCGA) and processed for further simulations with two different logical models, either a generic or a breast-specific one. Link: https://github.com/sysbio-curie/PROFILE.

Description: Repository of PhysiBoSS, a C++ software for multiscale simulation of heterogeneous

multi-cellular system

Name of the principal Investigator (PI): Laurence Calzone
Name of the Co-principal investigator (Co-PI): Arnau Montagud

Degree of contribution: Researcher Geographical area: European Union Collaborating entity or bodies:

Institut Curie Type of entity: Public Research Body

City collaborating entity: Paris, France

Start date: 12/11/2017 Duration: 2 years - 2 months

Relevant results: PhysiBoSS provides a flexible and computationally efficient framework to explore the effect of environmental and genetic alterations of individual cells at the population level, bridging the critical gap from single-cell genotype to single-cell phenotype and emergent multicellular behaviour. PhysiBoSS is freely available on GitHub (https://github.com/sysbio-curie/PhysiBoSS), with a Docker image (https://hub.docker.com/r/gletort/physiboss/). It is distributed as open source under the BSD 3-clause license.

5 Description: Pipeline of computational methods for logical modelling of biological networks that are deregulated in diseases

Name of the principal Investigator (PI): Laurence Calzone

Name of the Co-principal investigator (Co-PI): Arnau Montagud

Degree of contribution: Scientific coordinator

Geographical area: European Union Collaborating entity or bodies:

Institut Curie Type of entity: Public Research Body

City collaborating entity: Paris, France

Start date: 08/04/2016 Duration: 3 years - 9 months

Relevant results: We present a complete pipeline of computational tools that performs a series of analyses to explore a logical model's properties. A step-by-step tutorial is provided as a Supplementary Material and all models, tools and scripts are provided on an accompanying website:

 $https://github.com/sysbio-curie/Logical_modelling_pipeline.$







Scientific and technological activities

Scientific production

H index: 17

Date of application: 30/01/2024

Fuente de Indice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

Gaelle Letort; Arnau Montagud; Gautier Stoll; Randy Heiland; Emmanuel Barillot; Paul Macklin; Andrei Zinovyev; Laurence Calzone. PhysiBoSS: a multi-scale agent-based modelling framework integrating physical dimension and cell signalling. Bioinformatics. pp. bty766 - bty766. 01/04/2019.

DOI: 10.1093/bioinformatics/bty766 Type of production: Scientific paper

Position of signature: 2 Total no. authors: 8

Impact source: ISI Impact index in year of publication: 5.61

Source of citations: Google scholar

Relevant publication: Yes

Format: Journal

Corresponding author: No

Category: Computer Science Applications

Journal in the top 25%: Yes

Citations: 53

2 Antoine Forget; Loredana Martignetti; Stéphanie Puget; Laurence Calzone; Sebastian Brabetz; Daniel Picard; Arnau Montagud; Stéphane Liva; Alexandre Sta; Florent Dingli; et al.. Aberrant ERBB4-SRC Signaling as a Hallmark of Group 4 Medulloblastoma Revealed by Integrative Phosphoproteomic Profiling. Cancer Cell. 34 - 3, pp. 379 - 395.e7. 10/09/2018. ISSN 1535-6108

DOI: 10.1016/j.ccell.2018.08.002

Type of production: Scientific paper

Position of signature: 7 Total no. authors: 47

Impact source: ISI Impact index in year of publication: 23.71

Source of citations: Google scholar

Relevant publication: Yes

Format: Journal

Corresponding author: No Category: Cancer Research

Journal in the top 25%: Yes

Citations: 74

3 Arnau Montagud; Emilio Navarro; Pedro Fernández de Córdoba; Javier F Urchueguía; Kiran Raosaheb Patil. Reconstruction and analysis of genome-scale metabolic model of a photosynthetic bacterium. BMC Systems

Biology. 4 - 1, pp. 156 - 156. 01/2010. ISSN 1752-0509

DOI: 10.1186/1752-0509-4-156 Type of production: Scientific paper

Position of signature: 1 Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 3.56

Source of citations: Google scholar

Corresponding author: Yes

Category: Modelling and Simulation

Journal in the top 25%: Yes

Citations: 143

Format: Journal





Relevant publication: Yes

Miguel Ponce-de-Leon; Arnau Montagud; V Noel; G Pradas; A Meert; E Barillot; L Calzone; Alfonso Valencia. PhysiBoSS 2.0: A sustainable integration of stochastic Boolean and agent-based modelling frameworks. npj Systems Biology and Applications. 9 - 1, pp. 1 - 12. 30/10/2023. Available on-line at: https://doi.org/10.1101/2022.01.06.468363>.

Type of production: Scientific paper Format: Journal

Position of signature: 1

Total no. authors: 8 Corresponding author: No

Marc Clascà; Marta Garcia-Gasulla; Arnau Montagud; José Carbonell-Caballero; Alfonso Valencia. Lessons learned from a performance analysis and optimization of a multiscale cellular simulation. Proceedings of the Platform for Advanced Scientific Computing Conference, PASC'23. pp. 1 - 10. Association for Computing Machinery, 27/07/2023.

Type of production: Scientific paper Format: Journal

Corresponding author: Yes

M Ruscone; Arnau Montagud; Philippe Chavrier; Olivier Destaing; Isabelle Bonnet; Andrei Zinovyev; E Barillot; V Noel; L Calzone. Multiscale model of the different modes of cancer cell invasion. Bioinformatics. 39 - 6, pp. btad374. 08/06/2023. Available on-line at: https://doi.org/10.1101/2022.10.07.511296>.

Type of production: Scientific paper Format: Journal

Position of signature: 1

Total no. authors: 9 Corresponding author: No

7 Arnau Montagud; Jonas Béal; L Tobalina; Pauline Traynard; V Subramanian; B Szalai; R Alföldi; L Puskás; Alfonso Valencia; Emmanuel Barillot; J Saez-Rodriguez; Laurence Calzone. Patient-specific Boolean models of signaling networks guide personalised treatments. eLife. 11, pp. e72626. 06/04/2022. Available on-line at: https://doi.org/10.7554/eLife.72626.

Type of production: Scientific paper Format: Journal

Position of signature: 1

Total no. authors: 12 Corresponding author: Yes

Impact source: ISI Category: Biochemistry, Genetics and Molecular Biology

(miscellaneous)

Impact index in year of publication: 8.14 Journal in the top 25%: Yes

8 C Akasiadis; Miguel Ponce-de-Leon; Arnau Montagud; E Michelioudakis; A Atsidakou; E Alevizos; A Artikis; A Valencia; G Paliouras. Parallel Model Exploration for Tumor Treatment Simulations. Computational Intelligence. 38 - 4, pp. 1379-1401. 03/03/2022. Available on-line at: https://doi.org/10.1111/coin.12515.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 9 Corresponding author: No

Source of citations: Google scholar **Citations:** 2

9 Miguel Ponce-de-Leon; Arnau Montagud; C Akasiadis; J Schreiber; T Ntiniakou; A Valencia. Optimizing dosage-specific treatments in a multi-scale model of a tumor growth. Frontiers in Molecular Biosciences. pp. 2021.12.17.473136. 19/12/2021. Available on-line at: https://doi.org/10.3389/fmolb.2022.836794>.

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 6 **Corresponding author:** No





E Santus; N Marino; D Cirillo; E Chersoni; Arnau Montagud; A.S. Chadha; Alfonso Valencia; K Hughes; C Lindvall. Artificial Intelligence–Aided Precision Medicine for COVID-19: Strategic Areas of Research and Development. Journal of Medical Internet Research. 23 - 3, pp. e22453. 01/12/2021. Available on-line at:

https://doi.org/10.2196/22453.

Type of production: Scientific paper

Position of signature: 5 Total no. authors: 9 Impact source: ISI

Impact index in year of publication: 5.42

Source of citations: Google scholar Citations: 6

Arnau Montagud; Miguel Ponce-de-Leon; Alfonso Valencia. Systems biology at the giga-scale: Large multiscale models of complex, heterogeneous multicellular systems. Current Opinion in Systems Biology. 28, pp. 100385. 01/12/2021. Available on-line at: https://doi.org/10.1016/j.coisb.2021.100385.

Type of production: Scientific paper Format: Journal

Position of signature: 1

Total no. authors: 3 Impact source: ISI

Impact index in year of publication: 2.1

Source of citations: Google scholar

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: Modelling and Simulation

Journal in the top 25%: Yes

Citations: 2

Format: Journal

Corresponding author: No

Category: Health Informatics Journal in the top 25%: Yes

12 Marek Ostaszewski; Anna Niarakis; Alexander Mazein; Inna Kuperstein; Robert Phair; Aurelio Orta-Resendiz; Vidisha Singh; Sara Sadat Aghamiri; Marcio Luis Acencio; Enrico Glaab; Andreas Ruepp; Gisela Fobo; Corinna Montrone; Barbara Brauner; Goar Frishman; Luis Cristobal Monraz Gomez; Julia Somers; Matti Hoch; Shailendra Kumar Gupta; Julia Scheel; Hanna Borlinghaus; Tobias Czauderna; Falk Schreiber; Arnau Montagud; Miguel Ponce de Leon; Akira Funahashi; Yusuke Hiki; Noriko Hiroi; Takahiro G. Yamada; Andreas Drager; Alina Renz; Muhammad Naveez; Zsolt Bocskei; Francesco Messina; Daniela Bornigen; Liam Fergusson; Marta Conti; Marius Rameil; Vanessa Nakonecnij; Jakob Vanhoefer; Leonard Schmiester; Muying Wang; Emily E. Ackerman; Jason E. Shoemaker; Jeremy Zucker; Kristie L. Oxford; Jeremy Teuton; Ebru Kocakaya; Gokce Yagmur Summak; Kristina Hanspers; Martina Kutmon; Susan Coort; Lars Eijssen; Friederike Ehrhart; Rex D. A. B; Denise Slenter; Marvin Martens; Robin Haw; Bijay Jassal; Lisa Matthews; Marija Orlic-Milacic; Andrea Senff-Ribeiro; Karen Rothfels; Veronica Shamovsky; Ralf Stephan; Cristoffer Sevilla; Thawfeek Mohamed Varusai; Jean-Marie Ravel; Rupsha Fraser; Vera Ortseifen; Silvia Marchesi; Piotr Gawron; Ewa Smula; Laurent Heirendt; Venkata Satagopam; Guanming Wu; Anders Riutta; Martin Golebiewski; Stuart Owen; Carole Goble; Xiaoming Hu; Rupert Overall; Dieter Maier; Angela Bauch; John A. Bachman; Benjamin M. Gyori; Carlos Vega; Valentin Groues; Miguel Vazquez; Pablo Porras; Luana Licata; Marta Iannuccelli; Francesca Sacco; Denes Turei; Augustin Luna; Ozgun Babur; Sylvain Soliman; Alberto Valdeolivas; Marina Esteban-Medina; Maria Pena-Chilet; Tomas Helikar; Bhanwar Lal Puniya; Anastasia Nesterova; Anton Yuryev; Anita de Waard; Dezso Modos; Agatha Treveil; Marton Laszlo Olbei; Bertrand De Meulder; Aurelien Naldi; Aurelien Dugourd; Vincent Noel; Laurence Calzone; Chris Sander; Emek Demir; Tamas Korcsmaros; Tom C. Freeman; Franck Auge; Jacques S. Beckmann; Jan Hasenauer; Olaf Wolkenhauer; Egon Willighagen; Alexander R. Pico; Chris Evelo; Marc Gillespie; Lincoln D. Stein; Henning Hermjakob; Peter D'Eustachio; Julio Saez-Rodriguez; Joaquin Dopazo; Alfonso Valencia; Hiroaki Kitano; Emmanuel Barillot; Charles Auffray; Rudi Balling; Reinhard Schneider; the COVID-19 Disease Map Community. COVID-19 Disease Map, a computational knowledge repository of SARS-CoV-2 virus-host interaction mechanisms. Molecular Systems Biology. 17 - 10, pp. e10387 - 2020.10.26.356014. 19/10/2021. Available on-line at: https://doi.org/10.15252/msb.202110387>.

Type of production: Scientific paper

Position of signature: 24

Total no. authors: 137 Impact source: ISI

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee







Category: Biochemistry, Genetics and Molecular Biology

(miscellaneous)

Impact index in year of publication: 11.42

Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 14

13 G Saxena; M Ponce-de-Leon; Arnau Montagud; D Vicente Dorca; Alfonso Valencia. BioFVM-X: An MPI+OpenMP

3-D Simulator for Biological Systems. Lecture Notes in Computer Science. pp. 266 - 279. 13/09/2021.

Type of production: Scientific paper

Position of signature: 3
Total no. authors: 5

Total no. authors: 5

Corresponding author: No
Impact source: ISI

Category: Computer Science (miscellaneous)

Impact index in year of publication: 1.36

Journal in the top 25%: No

Source of citations: Google scholar Citations: 3

Giatrakos, Nikos; Arnu, David; Bitsakis, Theodoros; Deligiannakis, Antonios; Garofalakis, Minos; Klinkenberg, Ralf; Konidaris, Aris; Kontaxakis, Antonis; Kotidis, Yannis; Samoladas, Vasilis; Simitsis, Alkis; Stamatakis, George; Temme, Fabian; Torok, Mate; Yaqub, Edwin; Montagud, Arnau; Ponce de León, Miguel; Arndt, Holger; Stefan Burkard. INforE: Interactive Cross-platform Analytics for Everyone. Proceedings of the 29th ACM International Conference on Information & Knowledge Management. pp. 3389 - 3392. 19/10/2020. ISBN 978-1-4503-6859-9

Type of production: Scientific paper

Position of signature: 16

Total no. authors: 19

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 4.3

Category: Information Systems

Journal in the top 25%: Yes

Source of citations: Google scholar **Citations:** 4

Daniel Gamermann; Arnau Montagud; Jose Alberto Conejero; Pedro Fernández de Córdoba; Javier F. Urchueguía. Large scale evaluation of differences between network-based and pairwise sequence-alignment-based methods of dendrogram reconstruction. PLOS ONE. 14 - 9, pp. e0221631 - e0221631.

05/09/2019. Available on-line at: http://dx.plos.org/10.1371/journal.pone.0221631. ISSN 1932-6203

DOI: 10.1371/journal.pone.0221631

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 5 Corresponding author: No

Impact source: ISI Category: Biochemistry, Genetics and Molecular Biology

(miscellaneous)

Impact index in year of publication: 2.74 Journal in the top 25%: No

Source of citations: Google scholar Citations: 1

Jonas Béal; Arnau Montagud; Pauline Traynard; Emmanuel Barillot; Laurence Calzone. Personalization of Logical Models With Multi-Omics Data Allows Clinical Stratification of Patients. Frontiers in Physiology. 9, 24/01/2019. Available on-line at: https://www.frontiersin.org/articles/10.3389/fphys.2018.01965/abstract. ISSN 1664-042X

DOI: 10.3389/fphys.2018.01965

Type of production: Scientific paper Format: Journal

Position of signature: 2 Total no. authors: 5 Impact source: ISI

Impact index in year of publication: 3.36

Corresponding author: No Category: Physiology Journal in the top 25%: Yes







Source of citations: Google scholar Citations: 39

Arnau Montagud; Pauline Traynard; Loredana Martignetti; Eric Bonnet; Emmanuel Barillot; Andrei Zinovyev; Laurence Calzone. Conceptual and computational framework for logical modelling of biological networks deregulated in diseases. Briefings in Bioinformatics. pp. bbx163 - bbx163. 08/12/2017.

DOI: 10.1093/bib/bbx163

Type of production: Scientific paper Format: Journal

Position of signature: 1 Total no. authors: 7

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 6.3

Corresponding author: No

Category: Information Systems

Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 15

Filipe Pinto; Catarina C. Pacheco; Paulo Oliveira; Arnau Montagud; Andrew Landels; Narciso Couto; Phillip C. Wright; Javier F. Urchueguía; Paula Tamagnini. Improving a Synechocystis-based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. DNA Research. 22 - 6, pp. 425–437 - 425–

437. 21/10/2015. ISSN 1340-2838 **DOI:** 10.1093/dnares/dsv024

Type of production: Scientific paper Format: Journal

Position of signature: 4

Total no. authors: 9

Impact source: ISI

Category: Molecular Biology
Impact index in year of publication: 5.26

Corresponding author: No

Category: Molecular Biology
Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 53

Arnau Montagud; Daniel Gamermann; Pedro Fernández de Córdoba; Javier F Urchueguía. Synechocystis sp. PCC6803 metabolic models for the enhanced production of biofuels. Critical Reviews in Biotechnology. 35 - 2, pp.

Format: Journal

184 - 198. 01/06/2015.

DOI: 10.3109/07388551.2013.829799 **Type of production:** Scientific paper

Position of signature: 1

Total no. authors: 4 Corresponding author: Yes Impact source: ISI Category: Biotechnology Impact index in year of publication: 7.51 Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 14

Julián Triana; Arnau Montagud; Maria Siurana; David Fuente; Arantxa Urchueguía; Daniel Gamermann; Javier Torres; Jose Tena; Pedro Fernández De Córdoba; Javier F Urchueguía. Generation and Evaluation of a Genome-Scale Metabolic Network Model of Synechococcus elongatus PCC7942. Metabolites. 4 - 3, pp. 680–698 -

680-698. 20/08/2014. ISSN 2218-1989

DOI: 10.3390/metabo4030680

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 10 Corresponding author: No

Impact source: ISI Category: Endocrinology, Diabetes and Metabolism

Impact index in year of publication: 2.26 Journal in the top 25%: No

Source of citations: Google scholar Citations: 39







21 Daniel Gamermann; Arnau Montagud; Jose Alberto Conejero; Javier F. Urchueguía; Pedro Fernández de Córdoba. New Approach for Phylogenetic Tree Recovery Based on Genome-Scale Metabolic Networks. Journal of

Computational Biology. 21 - 7, pp. 508-19 - 508-19. 07/2014. ISSN 1557-8666

DOI: 10.1089/cmb.2013.0150

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 5 Corresponding author: No

Impact source: ISI Category: Modelling and Simulation

Impact index in year of publication: 2.28 Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 12

22 Daniel Gamermann; Arnau Montagud; R A Jaime Infante; Julián Triana; Javier F Urchueguía; Pedro Fernández de Córdoba. PyNetMet: Python tools for efficient work with networks and metabolic models. Computational and

Mathematical Biology. 3 - 5, pp. 1–19 - 1–19. 07/2014. ISSN 2219-1402 Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 6 Corresponding author: No

Source of citations: Google scholar Citations: 7

23 R. A. Jaime-Infante; Z. Hernández-Martínez; J. Triana-Dopico; O. Fosado-Tellez; Arnau Montagud; Daniel Gamermann; Pedro Fernández de Córdoba; Javier F Urchuequía. Herramienta para la optimización de flujos metabólicos en un sistema biológico. Investigación Operacional. 35 - 2, pp. 96-103 - 96-103. 04/2014. ISSN 0257-4306

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Total no. authors: 8 Corresponding author: No Impact source: ISI Category: Applied Mathematics Impact index in year of publication: 0.12 Journal in the top 25%: No

24 Raymari Reyes; Daniel Gamermann; Arnau Montagud; David Fuente; Julián Triana; Javier F Urchueguía; Pedro Fernández de Córdoba. Automation on the generation of genome-scale metabolic models. Journal of computational biology. 19 - 12, pp. 1295-306 - 1295-306. 12/2012. ISSN 1557-8666

DOI: 10.1089/cmb.2012.0183

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 5 Corresponding author: No

Impact source: ISI Category: Modelling and Simulation

Impact index in year of publication: 1.85 Journal in the top 25%: Yes

Citations: 22 Source of citations: Google scholar

25 Daniel Gamermann; Arnau Montagud; Pablo Aparicio; Emilio Navarro; Julián Triana; Francisco R Villatoro; Javier F Urchueguía; Pedro Fernández De Córdoba. A Modular Synthetic Device To Calibrate Promoters. Journal of Biological Systems. 20 - 1, pp. 37 - 37. 05/2012. ISSN 0218-3390

DOI: 10.1142/S0218339012500015

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 5 Corresponding author: No

Impact source: ISI







Category: Agricultural and Biological Sciences

(miscellaneous)

Impact index in year of publication: 0.73

Journal in the top 25%: No

Filipe Pinto; Karin A Van Elburg; Catarina C Pacheco; Miguel Lopo; Josselin Noirel; Arnau Montagud; Javier F Urchueguía; Phillip C Wright; Paula Tamagnini. Construction of a chassis for hydrogen production: physiological and molecular characterization of a Synechocystis sp. PCC 6803 mutant lacking a functional bidirectional hydrogenase. Microbiology (Reading, England). 158 - 2, pp. 448–464 - 448–464. 01/01/2012. ISSN 1465-2080

DOI: 10.1099/mic.0.052282-0

Type of production: Scientific paper Format: Journal

Position of signature: 6

Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 3.24

Corresponding author: No

Category: Microbiology

Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 35

Miguel Lopo; Arnau Montagud; Emilio Navarro; Isabel Cunha; Andrea Zille; Pedro Fernández de Córdoba; Pedro Moradas-Ferreira; Paula Tamagnini; Javier F Urchueguía. Experimental and Modeling Analysis of Synechocystis sp. PCC 6803 Growth. Journal of molecular microbiology and biotechnology. 22 - 2, pp. 71–82 - 71–82. 01/01/2012. ISSN 1660-2412

DOI: 10.1159/000336850

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 9 Corresponding author: No

Impact source: ISI Category: Applied Microbiology and Biotechnology

Impact index in year of publication: 1.67 Journal in the top 25%: No

Source of citations: Google scholar Citations: 30

Eugeni Belda; Laia Pedrola; Juli Peretó; Juan F Martínez-Blanch; Arnau Montagud; Emilio Navarro; Javier F Urchueguía; Daniel Ramón; Andrés Moya; Manuel Porcar. Microbial Diversity in the Midguts of Field and Lab-Reared Populations of the European Corn Borer Ostrinia nubilalis. PLoS ONE. 6 - 6, pp. e21751 - e21751. 06/2011. ISSN 1932-6203

00/2011.100111902-0200

DOI: 10.1371/journal.pone.0021751 **Type of production:** Scientific paper **Format:** Journal

Position of signature: 5

Total no. authors: 11 Corresponding author: No

Impact source: ISI Category: Biochemistry, Genetics and Molecular Biology

(miscellaneous)

Impact index in year of publication: 4.09

Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 68

Cristina Vilanova; Angeles Hueso; Carles Palanca; Guillem Marco; Miguel Pitarch; Eduardo Otero; Juny Crespo; Jerzy Szablowski; Sara Rivera; Laura Domínguez-Escribà; et al.. Aequorin-expressing yeast emits light under electric control. Journal of Biotechnology. 152, pp. 93–5 - 93–5. 01/2011. ISSN 1873-4863

DOI: 10.1016/j.jbiotec.2011.01.005

Type of production: Scientific paper Format: Journal

Position of signature: 12

Total no. authors: 18 Corresponding author: No







Impact source: ISI Category: Biotechnology Impact index in year of publication: 3.04 Journal in the top 25%: Yes

Citations: 8 Source of citations: Google scholar

30 Arnau Montagud; Aleksej Zelezniak; Emilio Navarro; Pedro Fernández de Córdoba; Javier F Urchueguía; Kiran Raosaheb Patil. Flux coupling and transcriptional regulation within the metabolic network of the photosynthetic bacterium Synechocystis sp. PCC6803. Biotechnology Journal. 6 - 3, pp. 330-342 - 330-342. 01/2011. ISSN 1860-7314

DOI: 10.1002/biot.201000109

Type of production: Scientific paper Format: Journal

Position of signature: 1

Total no. authors: 6 Corresponding author: No Impact source: ISI Category: Biotechnology Journal in the top 25%: Yes Impact index in year of publication: 3.44

Source of citations: Google scholar Citations: 80

31 Raymari Reyes; Jorge Garrido; Ramón A Jaime; Vinelia Vazquez; Julián Triana; Lizzael Villar; Juan C Castro; Arnau Montagud; Emilio Navarro; Pedro Fernández de Córdoba; et al.. Desarrollo de una plataforma computacional para el modelado metabólico de un microorganismo. Nereis. Revista Iberoamericana de Métodos, Modelización y Simulación Interdisciplinar.3, pp. 25-31 - 25-31. 2011.

Type of production: Scientific paper Format: Journal

Corresponding author: No

32 Joaquina Delás; Meritxell Notari; Jaume Forés; Joaquín Pechuan; Manuel Porcar; Emilio Navarro; Arnau Montagud; Minerva Baguena; Juli Peretó; Pedro Fernández de Córdoba; et al.. Yeast cultures with UCP1 uncoupling activity as a heating device. New Biotechnology. 26 - 6, pp. 300-6 - 300-6. 12/2009. ISSN 1876-4347

DOI: 10.1016/j.nbt.2009.09.005

Type of production: Scientific paper Format: Journal

Position of signature: 7

Total no. authors: 14 Corresponding author: No Impact source: ISI Category: Biotechnology Journal in the top 25%: No Impact index in year of publication: 2

Source of citations: Google scholar Citations: 5

33 Emilio Navarro; Arnau Montagud; Pedro Fernández de Córdoba; Javier F Urchueguía. Metabolic flux analysis of the hydrogen production potential in Synechocystis sp. PCC6803. International Journal of Hydrogen Energy. 34 -

21, pp. 8828-8838 - 8828-8838. 11/2009. ISSN 03603199

DOI: 10.1016/j.ijhydene.2009.08.036 Type of production: Scientific paper Format: Journal

Position of signature: 2

Impact source: ISI

Total no. authors: 4 Corresponding author: No

Impact index in year of publication: 3.94 Journal in the top 25%: Yes

Source of citations: Google scholar Citations: 50

34 Guillermo Rodrigo; Arnau Montagud; Alberto Aparici; Maria Cristina Aroca; Minerva Baguena; Javier Carrera; Carlos Edo; Pedro Fernández de Córdoba; Albert Ferrando; Gustavo Fuertes; et al.. Vanillin cell sensor. IET Synthetic Biology. 1 - 1-2, pp. 74 - 74. 02/2007. ISSN 17521394





Category: Energy Engineering and Power Technology



DOI: 10.1049/iet-stb:20060003

Type of production: Scientific paper Format: Journal

Position of signature: 1 Total no. authors: 19

Corresponding author: No

Source of citations: Google scholar Citations: 5

35 Miguel Pitarch; Arnau Montagud; Emilio Navarro; Pedro Fernández de Córdoba; Javier F Urchueguía. iGEM: una experiencia educativa única de trabajo en grupos multidisciplinares en el campo de la biologia. Revista de la

Facultad de Educación. 17, pp. 57-63 - 57-63. 01/2010. ISSN 1657-6454 Type of production: Popular science article Format: Journal

Corresponding author: No

36 Miguel Pitarch; Juny Crespo; Angeles Hueso; Guillem Marco; Eduardo Otero; Carles Palanca; Sara Rivera; Cristina Vilanova; Jerzy Szablowski; Laura Domínguez-Escribà; et al.. El equipo Valencia-iGEM diseña y

construye la primera pantalla biológica. Matematicalia. 6 - 3, pp. 1-5 - 1-5. 2010.

Type of production: Popular science article

Format: Journal Corresponding author: No

37 Jonas Béal; Arnau Montagud; Pauline Traynard; Emmanuel Barillot; Laurence Calzone. Framework for high-throughput personalization of logical models using multi-omics data. Computational systems biology approaches in cancer research. Boca Ratón(United States of America): CRC Press, 09/09/2019. Available on-line at: https://www.taylorfrancis.com/books/9780429330179. ISBN 978-0-367-34421-4

Collection: Chapman & Hall/CRC mathematical & comput

Type of production: Book chapter Format: Book

Corresponding author: No

38 Arnau Montagud. Modelling and analysis of biological systems to obtain biofuels. LAP Lambert Academic Publishing. LAP Lambert Academic Publishing, 11/03/2013. Available on-line at: https://www.lap-publishing.com/ catalog/details//store/gb/book/978-3-659-36415-0/modelling-and-analysis-of-biological-systems-to-obtain-

biofuels>. ISBN 978-3-659-36415-0

Type of production: Scientific book or monograph Format: Book

Position of signature: 1

Total no. authors: 1 Corresponding author: Yes

Works submitted to national or international conferences

1 Title of the work: BioFVM-X: An MPI+OpenMP 3-D Simulator for Biological Systems Name of the conference: CMSB 2021: Computational Methods in Systems Biology

Geographical area: Non EU International Type of event: Conference **Type of participation:** Participatory - oral Reasons for participation: Open access

communication

City of event: Bordeaux, France Date of event: 13/09/2021 End date: 14/09/2021

Organising entity: Computational Methods in Type of entity: Associations and Groups

Systems Biology

With external admission assessment committee: Yes

Type of contribution: Scientific paper

G Saxena; M Ponce-de-Leon; Arnau Montagud; D Vicente Dorca; Alfonso Valencia. En:

Computational Methods in Systems Biology. 12881, pp. 266 - 279. 15/09/2021. Available on-line at:

https://link.springer.com/chapter/10.1007%2F978-3-030-85633-5_18.







2 Title of the work: INforE: Interactive Cross-platform Analytics for Everyone

Name of the conference: 29th ACM International Conference on Information & Knowledge Management

Type of event: Conference Geographical area: Non EU International

Type of participation: Participatory - invited/keynote Reasons for participation: Review before

lk acceptance

Corresponding author: No City of event: Virtual, Date of event: 19/10/2020 End date: 23/10/2020

Organising entity: National University of Ireland Type of entity: University

Galway

City organizing entity: Galway, Ireland

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of contribution: Scientific paper

Nikos Giatrakos; David Arnu; Theodoros Bitsakis; Antonios Deligiannakis; Minos Garofalakis; Ralf Klinkenberg; Aris Konidaris; Antonis Kontaxakis; Yannis Kotidis; Vasilis Samoladas; Alkis Simitsis; George Stamatakis; Fabian Temme; Mate Torok; Edwin Yaqub; Arnau Montagud; Miguel Ponce de León; Holger Arndt; Stefan Burkard. "Proceedings of the 29th {ACM} {International} {Conference} on {Information} & {Knowledge} {Management}". En: INforE: Interactive Cross-platform Analytics for Everyone. pp. 3389 - 3392. Association for Computing Machinery, 10/2020. Available on-line at:

https://doi.org/10.1145/3340531.3417435>. ISBN 978-1-4503-6859-9

DOI: 10.1145/3340531.3417435

3 Title of the work: Multiscale simulation of cancer in High-Performance Computing

Name of the conference: 19th European Conference in Computational Biology (ECCB)

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - others

Reasons for participation: Review before

acceptance

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 31/08/2020 **End date:** 18/09/2020

Organising entity: Instituto Nacional de

Bioinformática

City organizing entity: Madrid, Catalonia, Spain

Arnau Montagud.

Type of entity: Public Research Body

4 Title of the work: Patient-specific prostate logical models allow clinical stratification of patients and personalized drug treatment

Name of the conference: 17th European Conference in Computational Biology, Workshop 6

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral Reasons for participation: Review before

communication acceptance

Corresponding author: Yes City of event: Athens, Greece Date of event: 08/09/2018 End date: 12/09/2018

Organising entity: Hellenic Society for Computational Biology and Bioinformatics

City organizing entity: Athens, Greece

Type of entity: Associations and Groups







Arnau Montagud; Jonas Béal; Pauline Traynard; Emmanuel Barillot; Laurence Calzone.

5 Title of the work: Patient-specific prostate logical models allow clinical stratification of patients and

personalized drug treatment

Name of the conference: 17th European Conference in Computational Biology

Type of event: Conference Geographical area: European Union

Type of participation: 'Participatory - poster Reasons for participation: Review before

acceptance

Corresponding author: Yes City of event: Athens, Greece Date of event: 08/09/2018 End date: 12/09/2018

Organising entity: Hellenic Society for Type of entity: Associations and Groups

Computational Biology and Bioinformatics City organizing entity: Athens, Greece

Arnau Montagud; Jonas Béal; Pauline Traynard; Emmanuel Barillot; Laurence Calzone.

6 Title of the work: Instantiation of patient-specific logical prostate models with multi-omics data allows

clinical stratification of patients

Name of the conference: 3rd European Conference on Translational Bioinformatics: Biomedical Big Data

Supporting Precision Medicine

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral Reasons for participation: Review before

communication

acceptance

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 16/04/2018 **End date:** 17/04/2018

Organising entity: IMIM-UPF Type of entity: University Research Institute

City organizing entity: Barcelona, Catalonia, Spain

Arnau Montagud; Jonas Béal; Pauline Traynard; Emmanuel Barillot; Laurence Calzone.

7 Title of the work: Instantiation of patient-specific logical prostate models with multi-omics data allows

clinical stratification of patients

Name of the conference: 3rd European Conference on Translational Bioinformatics: Biomedical Big Data

Supporting Precision Medicine

Type of event: Conference Geographical area: European Union
Type of participation: 'Participatory - poster Reasons for participation: Review before

acceptance

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 16/04/2018 **End date:** 17/04/2018

Organising entity: IMIM-UPF Type of entity: University Research Institute

City organizing entity: Barcelona, Catalonia, Spain

Arnau Montagud; Jonas Béal; Pauline Traynard; Emmanuel Barillot; Laurence Calzone.

8 Title of the work: Conceptual and computational framework for logical modelling of biological networks

deregulated in diseases

Name of the conference: ISMB/ECCB 2017 Type of participation: 'Participatory - poster

Corresponding author: Yes







City of event: Praga, Czech Republic

Date of event: 21/07/2017 **End date:** 25/07/2017

Arnau Montagud; Pauline Traynard; Loredana Martignetti; Eric Bonnet; Emmanuel Barillot; Andrei Zinovyev;

Laurence Calzone.

9 Title of the work: Multiscale model recapitulates breast cancer invasion modes **Name of the conference:** 17th International Conference on Systems Biology

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 16/09/2016 End date: 20/09/2016

A. Montagud; Margriet M. Palm; Vanessa Benhamo; Laurence Calzone; Dirk Drasdo; A. Zinovyev; Anne

Vincent-Salomon; E. Barillot.

10 Title of the work: ICA uncovers clinical traits that cause breast cancer stratification

Name of the conference: 17th International Conference on Systems Biology, workshop on System Biology

of Transcription Regulation

Type of participation: Participatory - oral communication

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 15/09/2016 End date: 15/09/2016

A. Montagud; Margriet M. Palm; Vanessa Benhamo; Laurence Calzone; Dirk Drasdo; A. Zinovyev; Anne

Vincent-Salomon; E. Barillot.

11 Title of the work: Multiscale model to recapitulate breast cancer invasion phenotypes

Name of the conference: JBI 2016: XIII Symposium on Bioinformatics

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Valencia, Valencian Community, Spain

Date of event: 10/05/2016 **End date:** 13/05/2016

A. Montagud; Margriet M. Palm; Vanessa Benhamo; Laurence Calzone; A. Zinovyev; Dirk Drasdo; Anne

Vincent-Salomon; E. Barillot.

12 Title of the work: Multiscale model to recapitulate breast cancer invasion phenotypes

Name of the conference: Applied Bioinformatics in Life Sciences

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Leuven, Belgium Date of event: 17/03/2016 End date: 18/03/2016

A. Montagud; Margriet M. Palm; Vanessa Benhamo; Laurence Calzone; Dirk Drasdo; A. Zinovyev; Anne

Vincent-Salomon: E. Barillot.

13 Title of the work: Multiscale model to recapitulate breast cancer invasion phenotypes

Name of the conference: 16th International Conference on Systems Biology

Type of participation: 'Participatory - poster

Corresponding author: Yes







City of event: Dublin, Ireland Date of event: 23/11/2015 End date: 26/11/2015

A. Montagud; Margriet M. Palm; Vanessa Benhamo; Laurence Calzone; Dirk Drasdo; A. Zinovyev; Anne

Vincent-Salomon; E. Barillot.

14 Title of the work: Mathematical modelling efforts to capture breast cancer invasion phenotypes

Name of the conference: 2nd International Symposium of the Cancer Research Center of Lyon

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Dublin, Ireland Date of event: 21/09/2015 End date: 23/09/2015

A. Montagud; Margriet M. Palm; Laurence Calzone; Dirk Drasdo; A. Zinovyev; E. Barillot.

Title of the work: Multiscale mathematical modelling recapitulates breast cancer invasion phenotypes

Name of the conference: ISMB/ECCB 2015: 14th European Conference on Computational Biology

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Dublin, Ireland Date of event: 10/07/2015 End date: 14/07/2015

A. Montagud; A. Zinovyev; E. Barillot.

Title of the work: Multiscale mathematical modelling of breast cancer invasion **Name of the conference:** 13th European Conference on Computational Biology

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Strasbourg, France

Date of event: 06/09/2014 **End date:** 10/09/2014

A. Montagud; A. Zinovyev; E. Barillot.

17 Title of the work: HYDRA: PLATAFORMA INFORMÁTICA PARA EL ANÁLISIS IN SILICO DE MODELOS

METABÓLICOS A ESCALA GENÓMICA

Name of the conference: 11th INTERNATIONAL CONFERENCE ON OPERATIONS RESEARCH

Type of participation: 'Participatory - poster

City of event: La Habana, Cuba Date of event: 11/03/2012 End date: 14/03/2012

O. Fosado Tellez; R.A. Jaime-Infante; Z. Hernández Martínez; J. Triana-Dopico; R. Rodríguez Romeu; A.

Montagud; J. F. Urchueguía; D. Gamermann; P. Fernández de Córdoba.

Title of the work: Genome-scale metabolic model and applications of Synechocystis sp. PCC6803

Name of the conference: ICSB 2011, the 12th International COnference on Systems Biology

Type of participation: 'Participatory - poster **City of event:** Heidelberg/Mannheim, Germany

Date of event: 28/08/2011 **End date:** 01/09/2011

A. Montagud; D. Gamermann; E. Navarro; M. Siurana; A.M. Lara; J. Triana; G. Castellano; P. Fernández de

Córdoba; J.F. Urchueguía; K.R. Patil.







19 Title of the work: Simulation of the Synechocystis sp. PCC6803 metabolic behavior using stoichiometric

representations and multiobjective evolutionary algorithms

Name of the conference: ICSB 2011, the 12th International Conference on Systems Biology

Type of participation: 'Participatory - poster **City of event:** Heidelberg/Mannheim, Germany

Date of event: 28/08/2011 **End date:** 01/09/2011

G. Reynoso; A. Montagud; J. Sanchis; J.F. Urchueguía.

20 Title of the work: Genome-scale metabolic chassis of Synechocystis sp. PCC6803

Name of the conference: SB 5.0 2011, The Fifth International Meeting of Synthetic Biology

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Stanford, United States of America

Date of event: 15/06/2011 **End date:** 17/06/2011

A. Montagud; D. Gamermann; E. Navarro; M. Siurana; A.M. Lara; J. Triana; G. Castellano; P. Fernández de

Córdoba; K.R. Patil; J.F. Urchueguía.

21 Title of the work: Diseño de bases de datos biológicas, un paso hacia la automatización del proceso de

construcción de modelos a escala genómica

Name of the conference: XV Convencion Cientifica de Ingenieria y Arquitectura

Type of participation: 'Participatory - poster

City of event: La Habana, Cuba Date of event: 03/12/2010

R. Reyes; R. A. Jaime; J. Garrido; J. Triana; V. Cordova; L. Villar; F. Marquez; J. C. Castro; E. Navarro; A.

Montagud; P. Fernández de Córdoba; J.F. Urchueguía; J. Martínez. ISBN 978-959-261-317-1

22 Title of the work: Modelo metabólico de una cianobacteria, una fuente de energía a partir de luz

Name of the conference: XV Convencion Cientifica de Ingenieria y Arquitectura

Type of participation: 'Participatory - poster

City of event: La Habana, Cuba Date of event: 03/12/2010

J. Triana; V. Cordova; R. A. Jaime; R. Reyes; J. Garrido; L. Villar; F. Marquez; J. C. Castro; E. Navarro; A.

Montagud; P. Fernández de Córdoba; J.F. Urchueguía. ISBN 978-959-261-317-1

23 Title of the work: Rational Organism Network Painter: una herramienta optimizada de visualización de

redes metabólicas de fácil uso

Name of the conference: XV Convencion Cientifica de Ingenieria y Arquitectura

Type of participation: 'Participatory - poster

City of event: La Habana, Cuba Date of event: 03/12/2010

J. Garrido; J. Triana; V. Cordova; R. A. Jaime; R. Reyes; L. Villar; J. C. Castro; E. Navarro; A. Montagud; P.

Fernández de Córdoba; J.F. Urchueguía. ISBN 978-959-261-317-1

24 Title of the work: Genome-scale metabolic model of Synechocystis sp. PCC6803

Name of the conference: Industrial Systems Biology conference

Type of participation: 'Participatory - poster

Corresponding author: Yes
City of event: Goteborg, Sweden







Date of event: 18/08/2010 End date: 20/08/2010

A. Montagud; E. Navarro; P. Fernández de Córdoba; J.F. Urchueguía; K. R. Patil.

25 Title of the work: Genome-scale metabolic model of Synechocystis sp. PCC6803 Name of the conference: International Hydrogenase conference, H2ase 2010

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Uppsala, Sweden Date of event: 27/06/2010 End date: 02/07/2010

A. Montagud; E. Navarro; P. Fernández de Córdoba; J.F. Urchueguía; K. R. Patil.

26 Title of the work: Energy biotechnology with cyanobacteria

Name of the conference: Marine Biotechnology: Future Challenges conference

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Acquafredda di Maratea, Italy

Date of event: 20/06/2010 End date: 25/06/2010

E Navarro; A Montagud; R Castañeda; P Fernandez de Cordoba; JF Urchueguia.

27 Title of the work: Construction and analysis of a genome scale metabolic model for the cyanobacteria

Synechocystis sp. PCC6803

Name of the conference: IX Jornadas de Matemática Aplicada

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Valencia, Spain

Date of event: 09/2009

Organising entity: Universidad Politécnica de Type of entity: University

Valencia

A. Montagud; E. Navarro; P. Fernández de Córdoba; J.F. Urchueguía; K. R. Patil. ISBN 978-84-8363-512-4

28 Title of the work: Dynamical analysis of a biological promoter calibrator

Name of the conference: IX Jornadas de Matemática Aplicada

Type of participation: 'Participatory - poster

City of event: Valencia, Spain Date of event: 09/2009

Organising entity: Universidad Politécnica de Type of entity: University

Valencia

E. Navarro; A. Montagud; F. R. Villatoro; P. Fernández de Córdoba; J.F. Urchueguía. ISBN

978-84-8363-512-4

29 Title of the work: Construction and analysis of a genome scale metabolic model for the cyanobacteria

Synechocystis sp. PCC6803

Name of the conference: European Conference on Synthetic Biology II (ECSB II)

Type of participation: 'Participatory - poster

Corresponding author: Yes

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

Date of event: 03/2009

A. Montagud; E. Navarro; P. Fernández de Córdoba; J.F. Urchueguía; K. R. Patil.







30 Title of the work: Yeast cultures with UCP-1 uncoupling activity as a heating device

Name of the conference: IET BioSysBio 2009 Conference

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Cambridge, United Kingdom

Date of event: 03/2009

J. Delás; M. Notari; J. Forés; J. Pechuan; M. Porcar; E. Navarro; A. Montagud; M. Báguena; J. Peretó; P.

Fernández-de-Córdoba; E. Rial; A. Moya; J.F. Urchueguía.

31 Title of the work: Analysis of the capabilities of an autotrophic chassis oriented to synthetic biology

applications.

Name of the conference: Synthetic Biology 4.0 Conference

Type of participation: 'Participatory - poster

Corresponding author: No
City of event: Hong Kong, China

Date of event: 10/2008

E. Navarro; A. Montagud; P. Fernandez de Cordoba; J.F. Urchueguia.

32 Title of the work: Promoter calibrator: one possible application for a biological comparator

Name of the conference: Synthetic Biology 4.0 Conference

Type of participation: 'Participatory - poster

Corresponding author: Yes City of event: Hong Kong, China

Date of event: 10/2008

A. Montagud; E. Navarro; P. Aparicio; O. Cuenca; D. Das; J. Garzón; S. K. Maiti; H. Mosquera; R. Soriano;

M. Báguena; P. Fernández-de-Córdoba; A. Ferrando; A. Jaramillo; J. Peretó; J.F. Urchueguía.

33 Title of the work: Promoter calibrator: one possible application for a biological comparator

Name of the conference: IET BioSysBio 2008 Conference

Type of participation: 'Participatory - poster

Corresponding author: No City of event: Londres, Date of event: 04/2008

P. Aparicio; O. Cuenca; D. Das; J. Garzón; S. K. Maiti; A. Montagud; H. Mosquera; R. Soriano; M. Báguena;

E. Navarro; P. Fernández-de-Córdoba; A. Ferrando; A. Jaramillo; J. Peretó; J.F. Urchueguía.

34 Title of the work: Cyanobacterial metabolic modelling directed to hydrogen production

Name of the conference: European Conference on Synthetic Biology (ECSB)

Type of participation: 'Participatory - poster **City of event:** Sant Feliu de Guíxols, Spain

Date of event: 11/2007

E. Navarro; D. Das; S.K. Maiti; A. Montagud; M. Báguena; P. Fernández de Córdoba; J.F. Urchueguía.

35 Title of the work: Promoter calibrator: one possible application for a biological comparator

Name of the conference: European Conference on Synthetic Biology (ECSB)

Type of participation: 'Participatory - poster **City of event:** Sant Feliu de Guíxols, Spain

Date of event: 11/2007

A. Montagud; P. Aparicio; O. Cuenca; D. Das; J. Garzón; S. K. Maiti; H. Mosquera; R. Soriano; M. Báguena;

E. Navarro; P. Fernández-de-Córdoba; A. Ferrando; A. Jaramillo; J. Peretó; J.F. Urchueguía.







36 Title of the work: BioModularH2: Engineered Modular Bacteria Photoproduction of Hydrogen

Name of the conference: VIII Jornadas de Matemática Aplicada

Type of participation: 'Participatory - poster

City of event: Valencia, Spain

Date of event: 09/2007

E. Navarro; D. Das; S.K. Maiti; A. Montagud; M. Báguena; P. Fernández de Córdoba; J.F. Urchueguía. ISBN

978-84-8363-203-1

37 Title of the work: Characterisation of parts in cyanobacteria

Name of the conference: 9th Annual Functional Genomics: Synthetic Biology

Type of participation: 'Participatory - poster

City of event: Goteborg, Sweden

Date of event: 08/2007

T. Heidorn; Z. Shen; D. Camsund; A. Montagud; P. Lindblad.

38 Title of the work: Cyanobacterial metabolic modelling directed to hydrogen production

Name of the conference: 9th Annual Functional Genomics: Synthetic Biology

Type of participation: 'Participatory - poster

City of event: Goteborg, Sweden

Date of event: 08/2007

E. Navarro; D. Das; S.K. Maiti; A. Montagud; P. Fernández de Córdoba; J.F. Urchueguía.

39 Title of the work: Design of a cellular biosensor of vanillin through synthetic biology (iGEM 2006 Valencia

project)

Name of the conference: Congreso No Lineal 2007

Type of participation: 'Participatory - poster

City of event: Ciudad Real, Spain

Date of event: 06/2007

E. Navarro; A. Aparici; M.C. Aroca; M. Baguena; J. Carrera; C. Edo; P. Fernandez-de-Cordoba; A. Ferrando;

G. Fuertes; D. Gimenez; C. Mata; J.V. Medrano; A. Montagud; C. Navarrete; G. Rodrigo; J. Salgado; P.

Tortosa; A. Jaramillo; J. F. Urchueguia.

40 Title of the work: iGEM-2006: la respuesta valenciana al reto de la Biología Sintética

Name of the conference: XXIX Congreso de la SEBBM

Type of participation: 'Participatory - poster

City of event: Elche, Spain Date of event: 09/2006

A. Montagud; A. Aparici; M.C. Aroca; M. Baguena; J. Carrera; C. Edo; P. Fernandez-de-Cordoba; A. Ferrando; G. Fuertes; D. Gimenez; C. Mata; J.V. Medrano; C. Navarrete; E. Navarro; G. Rodrigo; J.

Salgado; P. Tortosa; A. Jaramillo; J. F. Urchueguia.

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Módulo 5. Herramientas en acción

Name of the event: Innovación tecnológica basada en datos aplicada a la salud: a qué retos se enfrentan

Reasons for participation: Upon invitation

los profesionales sanitarios Type of event: Course

Geographical area: National

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain





Type of entity: Associations and Groups



Date of event: 30/11/2019 **End date:** 30/11/2019

Organising entity: Bioinformatics Barcelona

Association - Luzán - AMGEN

City organizing entity: Barcelona, Catalonia, Spain

Arnau Montagud; Alfonso Valencia.

2 Title of the work: Cell-level simulations: from molecules to organoids

Name of the event: BImBS 2019 - BioInformatics meets BioSimulations in protein and DNA studies: from

theory to practice **Type of event:** Course

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: National City of event: Lugano, Swaziland Date of event: 07/10/2019 End date: 08/10/2019

Organising entity: CECAM - CSCS

Type of entity: Public Research Body

City organizing entity: Lugano, Switzerland

Arnau Montagud.

3 Title of the work: From genes to pathways: pathway quantification with ROMA

Name of the event: Genopole Summer School: Bioinformatics and biostatistical tools in medical genomics

Type of event: Course

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: National

City of event: Chateauform', France

Date of event: 29/06/2018 **End date:** 29/06/2018

Organising entity: Genopole Recherche / CEA Type of entity: Public Research Body

City organizing entity: Paris, France

Arnau Montagud.

4 Title of the work: Towards patient-specific multi-scale models and data integration for clinical stratification

Name of the event: Severo Ochoa Research seminars

Type of event: Seminar

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: European Union **City of event:** Barcelona, Catalonia, Spain

Date of event: 19/06/2018 **End date:** 19/06/2018

Organising entity: Centro Nacional de Type of entity: R&D Centre

Supercomputación

City organizing entity: Barcelona, Catalonia, Spain

Arnau Montagud.

5 Title of the work: Use of computational methods for logical modelling of biological networks

Name of the event: In Silico Systems Biology

Type of event: Course

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: European Union **City of event:** Hinxton, United Kingdom







Date of event: 03/06/2018 **End date:** 10/06/2018

Organising entity: EMBL-EBI - Wellcome Trust City organizing entity: Hinxton, United Kingdom

Arnau Montagud.

6 Title of the work: Use of computational methods for logical modelling of biological networks deregulated in

diseases

Name of the event: 3rd Porto Meeting Mathematics and Biology

Type of event: Course

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: European Union

City of event: Porto, Portugal Date of event: 20/06/2017 End date: 25/06/2017

Organising entity: Faculty of Sciences at the Type of entity: University

University of Porto, Foundation for Science and Technology and Center for Mathematics of University

of Porto

City organizing entity: Porto, Portugal

Arnau Montagud.

7 Title of the work: Modelado y análisis de datos en Biología de Sistemas del cáncer

Name of the event: Seminarios del Instituto Universitario de Matemática Pura y Aplicada (IUMPA)

Type of event: Seminar

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: European Union

City of event: València, Valencian Community, Spain

Date of event: 28/03/2017 **End date:** 28/03/2017

Organising entity: Universidad Politécnica de Type of entity: University

Valencia

City organizing entity: València, Valencian Community, Spain

Arnau Montagud.

R&D management and participation in scientific committees

Organization of R&D activities

1 Title of the activity: Simulating cellular behaviours: advancing HPC-enabled Computational Biology

Type of activity: Workshop en conferencia Geographical area: European Union

internacional

City of event: Barcelona, Catalonia, Spain

Convening entity: 21th European Conference on Computational Biology (ECCB)

City convening entity: Barcelona, Catalonia, Spain

Type of participation: Organiser

Nº assistants: 110







Title of the activity: PerMedCoE: Modelling and simulation for the interpretation of single-cell data

Type of activity: Workshop en conferencia

Geographical area: Non EU International

internacional

City of event: London, Inner London, United Kingdom

Convening entity: CompBioMed Conference 2021 Type of entity: Associations and Groups

City convening entity: London, Inner London, United Kingdom

Type of participation: Organiser

Nº assistants: 80

3 Title of the activity: Advances in computational modelling of cellular processes and high-performance

computing

Type of activity: Workshop en conferencia Geographical area: European Union

internacional

City of event: Barcelona, Catalonia, Spain

Convening entity: 19th European Conference on Type of entity: Foundation

Computational Biology (ECCB)

City convening entity: Barcelona, Catalonia, Spain

Type of participation: Organiser

Nº assistants: 130

Start-End date: 04/09/2020 - 04/09/2020 **Duration:** 1 day

4 Title of the activity: 2nd Systems biology of Transcription Regulation Workshop

Type of activity: Workshop en conferencia Geographical area: Non EU International

internacional

City of event: Lyon, France

Convening entity: 18th International Conference on Type of entity: Associations and Groups

Systems Biology (ICSB)

City convening entity: Lyon, France
Type of participation: Organiser

Nº assistants: 30

Start-End date: 27/10/2018 - 27/10/2018 **Duration:** 1 day

Evaluation and revision of R&D projects and articles

1 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista PLoS Computational Biology

Entity where activity was carried out: Public Type of entity: Foundation

Library of Science

City of entity: San Francisco, United States of America

Type of activity: Review of articles in scientific or Frequency of the activity: 2

technological journals

Access system: With express recognition of the Geographical area: Non EU International

credits concerned Start date: 2021

2 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista Briefings in Bioinformatics

Entity where activity was carried out: Briefings in Bioinformatics

City of entity: Oxford, United Kingdom

Frequency of the activity: 4







Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2020

Geographical area: Non EU International

3 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista Bioinformatics Entity where activity was carried out: Type of entity: Business

Bioinformatics

City of entity: Oxford, United Kingdom

Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2019

Frequency of the activity: 4

Geographical area: Non EU International

4 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista F1000 Research Entity where activity was carried out: Faculty of Type of entity: Business

1000 Ltd

City of entity: Londres, United Kingdom

Type of activity: Review of articles in scientific or

technological journals

Frequency of the activity: 1

Access system: With express recognition of the

credits concerned Start date: 2018

5 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista Frontiers in Physiology

Entity where activity was carried out: Frontiers Type of entity: Business

Media SA

City of entity: Lausanne, Switzerland

Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2018

Frequency of the activity: 1

Geographical area: Non EU International

Geographical area: Non EU International

6 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista Scientific Reports Entity where activity was carried out: Springer Type of entity: Business

Nature Limited

City of entity: Londres, United Kingdom

Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2017

Frequency of the activity: 2

Geographical area: Non EU International







7 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista PLoS ONE Entity where activity was carried out: Public Type of entity: Foundation

Library of Science

City of entity: San Francisco, United States of America

Type of activity: Review of articles in scientific or

Access system: With express recognition of the

technological journals

Frequency of the activity: 2

credits concerned Start date: 2012

8 Name of the activity: Revisión de artículos científicos

Performed tasks: Revisión de artículos científicos para la revista BMC Systems Biology

Entity where activity was carried out: Springer

Nature Limited

City of entity: Londres, United Kingdom

Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2011

Frequency of the activity: 1

Type of entity: Business

Geographical area: Non EU International

Geographical area: Non EU International

Other achievements

Stays in public or private R&D centres

1 Entity: Institut Curie Type of entity: Public Research Body

Start-End date: 13/01/2014 - 31/12/2018

Goals of the stay: Post-doctoral

2 Entity: Universidad Politécnica de Valencia Type of entity: University

Faculty, institute or centre: Instituto Universitario de Matemática Pura y Aplicada (IUMPA)

City of entity: València, Valencian Community, Spain

Start-End date: 27/03/2017 - 31/03/2017 **Duration:** 5 days

Goals of the stay: Guest

Provable tasks: Colaboración en investigación

3 Entity: EMBL Heidelberg - The European Molecular Biology Laboratory

City of entity: Heidelberg, Germany

Start-End date: 09/2010 - 02/2011

Goals of the stay: Doctorate

Provable tasks: Colaboración en investigación

4 Entity: DENMARK TECHNICAL UNIVERSITY Type of entity: University

City of entity: KGS. LYNGBY, Denmark Start-End date: 03/2010 - 09/2010

Goals of the stay: Doctorate

Provable tasks: Colaboración en investigación

Duration: 7 months

Duration: 5 months







5 Entity: DENMARK TECHNICAL UNIVERSITY

City of entity: KGS. LYNGBY, Denmark Start-End date: 09/2008 - 01/2010

Goals of the stay: Doctorate

Provable tasks: Colaboración en investigación

6 Entity: Uppsala Universitet

City of entity: Uppsala, Sweden Start-End date: 04/2007 - 06/2007

Goals of the stay: Doctorate

Provable tasks: Colaboración en investigación

7 Entity: Centro Nacional de Supercomputación

Faculty, institute or centre: Life Sciences City of entity: Barcelona, Catalonia, Spain

Start date: 01/01/2019

Goals of the stay: Post-doctoral

Type of entity: University

Duration: 4 months

Type of entity: University

Duration: 3 months

Type of entity: R&D Centre

Type of entity: Agencia de la Comisión Europea

Obtained grants and scholarships

1 Name of the grant: Subvenciones para la Contratación de Personal Investigador Doctor de Excelencia para

Desarrollar un Proyecto de I+D+i en la Comunitat Valenciana. Plan GenT CIDEGENT 2023.

Aims: Estabalecer un investigador distinguido y su grupo de investigación en la Comunitat Valenciana

Awarding entity: Generalitat Valenciana Type of entity: Public Government

Conferral date: 01/01/2024 Duration: 4 years

End date: 31/12/2027

Entity where activity was carried out: Consejo Superior de Investigaciones Científicas

Faculty, institute or centre: Institute for Integrative Systems Biology (I2SysBio)

2 Name of the grant: EIT Climate-KIC, PIONEERS INTO PRACTICE - PIONEER Arnau Montagud

City awarding entity: València, Valencian Community, Spain

Aims: Post-doctoral

Awarding entity: European Institute of Innovation

and Technology Climate - Knowledge and Innovation

Community

Amount of the grant: 8.000 € Conferral date: 01/04/2013

End date: 01/01/2014

Entity where activity was carried out: Universidad Politécnica de Valencia

Faculty, institute or centre: Departamento de Matemática Aplicada

3 Name of the grant: Beca de formación de personal investigador de carácter predoctoral

City awarding entity: València, Valencian Community, Spain

Aims: Pre-doctoral

Awarding entity: Generalitat Valenciana Type of entity: Gobierno de la Comunidad

Valenciana

Duration: 8 months

Amount of the grant: 57.600 €

Conferral date: 12/04/2007 Duration: 4 years

End date: 12/04/2011

Entity where activity was carried out: Universidad Politécnica de Valencia







Faculty, institute or centre: Departamento de Matemática Aplicada

Scientific societies and professional associations

Name of the society: International Society for Computational Biology - ISCB

City affiliation entity: Leesburg, United States of America

Start-End date: 01/01/2010 - 01/09/2019

Prizes, mentions and distinctions

1 **Description:** Premio extraordinario de tesis doctoral

Awarding entity: Universidad Politécnica de Type of entity: University

Valencia

City awarding entity: Valencia, Valencian Community, Spain

Conferral date: 29/05/2013

Description: Selected for the programme "Pioneers into Practice" from the EU-funded "Climate KIC"

Awarding entity: European Institute of Innovation **Type of entity:** Agencia de la Comisión Europea and Technology Climate - Knowledge and Innovation

Community

Conferral date: 15/09/2012

3 Description: 2nd prize in 5th Valencia IDEA competition, Energy and Environment category

Awarding entity: Valencia City Council Type of entity: Ayuntamiento

City awarding entity: Valencia, Valencian Community, Spain

Conferral date: 28/09/2011

4 Description: Travel grant to attend Synthetic Biology 5.0

Awarding entity: Synthetic Biology 5.0 organisation Type of entity: Associations and Groups

committee

Conferral date: 01/04/2011

5 Description: Travel grant to attend Synthetic Biology 4.0

Awarding entity: Synthetic Biology 4.0 organisation committee

Conferral date: 01/07/2008



