





C V n CURRÍCULUM VÍTAE NORMALIZADO



Arnau Montagud Aquino

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Summary of CV

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

My long-term career goal is to develop tools that use systems-wide data and models to identify and promote main players that lead to a desired cellular status. To reach this goal, I use models and latest Systems Biology's technologies to better integrate data and understand cellular mechanisms behind diseases or that enable desired biotechnological goals.

I have a BSc in Biology and an MSc in Cell Biology by the Universitat de València, Spain, and I have always been interested in using mathematical approaches to solve biology problems. That is why, for my PhD at the Universitat Politècnica de València, I merged computer models, optimisation techniques and cell biology. I built a genome-scale model of a cyanobacteria that could be simulated under four drastically different growth conditions. This model allowed me to propose several interventions for the optimised photon-fuelled production of metabolites with industrial significance such as ethanol and hydrogen. Additionally, this model guided the development of genetic engineering tools by collaborators and helped focus their goals and efforts. This research allowed me to undergo stays at top-ranking scientific research centres such as Uppsala University in Sweden, Denmark Technical University in Denmark and EMBL Heidelberg - The European Molecular Biology Laboratory in Germany.

After my PhD defence, I moved to Institut Curie in Paris, France, to work on systems-wide data integration and Boolean models of cancer in projects in breast, medulloblastoma and prostate. I worked on the development, streamlining and free dissemination of models and tools. Some notable contributions have been PhysiBoSS, a multi-scale modelling framework with agents with integrated Boolean models and PROFILE, a tool to have patient-specific Boolean models that allowed for tailored simulations. Currently, I am extending the data-tailored models to simulate drug-like inhibition in prostate-patient-specific Boolean models, opening the way to in silico tests of patient-specific drug treatments.

The essence of my research is to choose projects that have a high impact in society, to gather active collaborations to achieve greater goals and to have unconditional scientific transparency by facilitating its reproducibility with open source and open access.

Working with and mentoring students has always been natural to me. In these years, I have mentored 9 students, including 7 MSc students and 2 PhD students, co-writing grants and securing funding for the 2 PhD students. Additionally, and adding to my versatile profile, I organised from 2007 to 2011 an interdisciplinary group of students from physics, engineering and biology in a synthetic biology competition hosted by the MIT called iGEM

Throughout my career, I have been a passionate collaborator across disciplines, working with computer scientists, biologists, physicists and engineers. I have extensive experience in initiating and nurturing fruitful collaborations leading to EU-, Spanish- and French-funded projects that I have written and organised. I have been the acting coordinator of my group's contribution to an H2020 project taking care of work packages' tasks as well







as scientific and financial management. I have forged strong links with leading scientists in the Systems Biology community that will be of high value for my perspectives as a junior PI.





General quality indicators of scientific research

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

I am a researcher with experience in Systems Biology, Data integration, Data deconvolution, Metabolic Engineering, High-performance computing and Boolean, Metabolic and Multi-scale modelling. I am an enthusiastic collaborator who has promoted collaborations with researchers with varied backgrounds and different fields of expertise, secured funding for international pioneering projects and keenly mentored several MSc and PhD students.

My research efforts have led to:

- **31 publications**, H-index of 11, total number of **citations**: **505** (Google scholar, 4 January 2020):
 - o 25 peer-reviewed publications, 5 of them as first author, 13 in Q1 journals,
 - o 3 educational publications,
 - o 2 books and 1 book chapter, 2 of them as first author.
- **37 participations in international conferences**: 3 of them as selected talks and 34 as poster contributions.
- 13 participations in R&D projects: I co-organised and wrote 6 EU-, Spanish- and Frenchfunded collaborative projects and I was the acting PI of my group's contribution to a H2020 project, due to a maternity leave.
- Co-organiser of the 2nd Systems biology of Transcription Regulation Workshop at ICSB'18 in Lyon, France.
- **Reviewer for 6 Q1 journals** including Bioinformatics, BMC Systems Biology, PLoS ONE, Scientific Reports, Frontiers in Physiology, F1000 Research.
- 4 stays at top-ranking scientific research centres, 4 grants and scholarships, 3 prizes for scientific accomplishments.

My teaching and mentoring experience can be proven by the following indicators:

- 2 PhD thesis supervised, 2 MSc theses supervised and 5 more MSc students mentored, and 1 Bachelor thesis supervised.
- **5 international courses** taught at universities and research centres and 7 invited seminars at universities and research centres.
- Organisation of an interdisciplinary group of students at the annual international iGEM Synthetic Biology competition hosted by MIT from 2007 to 2011.







Arnau Montagud Aquino

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 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: Barcelona
City of birth: Valencia

Contact address: Carrer de la Ciutat de Balaguer, 20, 1ero, 3era

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

Current professional situation

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

Supercomputación

Department: Life Sciences, Barcelona Supercomputing Center

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

City employing entity: Barcelona, Catalonia, Spain

Email: arnau.montagud@bsc.es

Start date: 01/01/2019

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

Performed tasks: I am currently working 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 is to ease the migration of Systems Biology tools to world-leading high-performance computing platforms, such as MareNostrum4. Thus, I am incorporating 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 are the basis of several competitive calls for funding that I have prepared, personal and consortium-based. Additionally, I am mentoring 2 MSc students.





Identify key words: Cell biology; Molecular biology; Computational biology; Genetics **Applicability in teaching and/or research:** The research that I am performing at BSC with my colleagues is in the process of being published in top-ranking journals. Additionally, I am working 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.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Institut Curie	Postdoc	13/01/2014
2	Universidad Politécnica de Valencia	Postdoc	01/06/2012
3	Universidad Politécnica de Valencia	Estudiante predoc	01/04/2007

1 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 Educational Management (Yes/No): No

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

2 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 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.

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: 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: 26/06/2012

DEA awarding entity: Universitat de València

Date DEA was awarded: 19/02/2008

European doctorate: Yes Date of certificate: 17/04/2012

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

General teaching experience

1 Type of teaching: International teaching

Name of the course: Biología de sistemas computacional

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Máster Universitario en Bioinformática

Course given: 2

Start date: 10/12/2019 **End date:** 10/12/2019

End date: 10/12/2019 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 4

Entity: Universitat de València Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingeniería de la Universidad de Valencia (ETSE-UV)

City of entity: Valencia, Valencian Community, Spain

Subject language: Spanish

2 Type of teaching: Unofficial teaching

Name of the course: Introducción a la Biología Sintética

Type of subject: Modular

University degree: Cursos de Formación Permanente

End date: 09/05/2011 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 35

Entity: Universidad Católica de Valencia San Vicente Type of entity: University

Mártir

Faculty, institute or centre: Facultad de Ciencias - Universidad Católica de Valencia

City of entity: Valencia, Valencian Community, Spain

Subject language: English

3 Type of teaching: Unofficial teaching

Name of the course: Introducción a la Biología Sintética

Type of subject: Modular

University degree: Cursos de Formación Permanente

End date: 19/04/2010 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 35

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Centro de Formación Permanente







City of entity: Valencia, Valencian Community, Spain

Subject language: English

4 Type of teaching: Unofficial teaching

Name of the course: Introducción a la Biología Sintética

Type of subject: Modular

University degree: Cursos de Formación Permanente

End date: 21/04/2009 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 35

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Centro de Formación Permanente

City of entity: Valencia, Valencian Community, Spain

Subject language: English

5 Type of teaching: Unofficial teaching

Name of the course: Introducción a la Biología Sintética

Type of subject: Modular

University degree: Cursos de Formación Permanente

End date: 07/04/2008 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 35

Entity: Universidad Politécnica de Valencia Type of entity: University

Faculty, institute or centre: Centro de Formación Permanente

City of entity: Valencia, Valencian Community, Spain

Subject language: English

Experience supervising doctoral thesis and/or final year projects

1 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

2 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

3 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

4 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

3 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

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

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

Technology End date: 2006

Type of entity: University

Scientific and technological experience

Research and development groups/teams

1 Name of the group: Computational Biology

Aims of the group: Study of Computational Biology
Name of principal investigator: Alfonso Valencia
Type of collaboration: Co-authorship of publications

City of group: Barcelona, Catalonia, Spain

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

Start date: 01/01/2019 Duration: 1 year

2 Name of the group: Computational Systems Biology of Cancer

Aims of the group: Study of Systems Biology of Cancer **Name of principal investigator:** Emmanuel Barillot

Standardised code: U900 Type of collaboration: Co-authorship of publications

City of group: Paris, France

Affiliation entity: Institut Curie Type of entity: Public Research Body

Start date: 13/01/2014 Duration: 5 years

Name of the group: Architecture and regulation of metabolic networks

Aims of the group: Study of Systems Biology of Bacteria Name of principal investigator: Kiran Raosaheb Patil Type of collaboration: Co-authorship of publications

City of group: Heidelberg, Germany **Affiliation entity:** EMBL Heidelberg

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Type of entity: Public Research Body





Start date: 01/09/2010 Duration: 5 months

4 Name of the group: Architecture and regulation of metabolic networks

Aims of the group: Study of Systems Biology of Bacteria Name of principal investigator: Kiran Raosaheb Patil Type of collaboration: Co-authorship of publications

City of group: Kongens Lyngby, Denmark

Affiliation entity: Technical University of Denmark

Start date: 01/09/2008

Type of entity: University

Duration: 10 months

5 Name of the group: InterTech

Aims of the group: Study of Systems Biology of Cyanobacteria and Synthetic Biology

Name of principal investigator: Javier F Urchueguía Type of collaboration: Co-authorship of publications City of group: Valencia, Valencian Community, Spain

Affiliation entity: Universidad Politécnica de Valencia Type of entity: University

Start date: 01/04/2007 Duration: 6 years - 8 months

Scientific or technological activities

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

1 Name of the project: EPIC

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

2 Name of the project: 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

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

3 Name of the project: 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

4 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

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: 1.500.000 €

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 €

6 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 €

7 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

N° of researchers: 1
Funding entity or bodies:
ASSOCIATION CLIMATE K

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 €

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

(photo)synthetic cell factories (308518)

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 - 31/12/2013

Total amount: 321.500 €

9 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 €

10 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 €

12 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 €

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

HYDROGEN (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: 280.325 €

Results

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

1 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.

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: 11

Date of application: 04/01/2020

Publications, scientific and technical documents

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

Format: Journal

Corresponding author: No Relevant publication: Yes

2 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. 31/08/2018.

DOI: 10.1093/bioinformatics/bty766

Type of production: Scientific paper Format: Journal

Corresponding author: No Relevant publication: Yes

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

Corresponding author: No Relevant publication: Yes

4 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 Format: Journal

Corresponding author: Yes Relevant publication: Yes

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







Corresponding author: No

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

Corresponding author: No

7 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

Corresponding author: No

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. 184–198 - 184–198. 01/06/2015.

DOI: 10.3109/07388551.2013.829799

Type of production: Scientific paper Format: Journal

Corresponding author: Yes

9 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

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

Corresponding author: No

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

Corresponding author: No

R. A. Jaime-Infante; Z. Hernández-Martínez; J. Triana-Dopico; O. Fosado-Tellez; Arnau Montagud; Daniel Gamermann; Pedro Fernández de Córdoba; Javier F Urchueguía. 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

Corresponding author: No







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: a journal of computational molecular cell 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

Corresponding author: No

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

Corresponding author: 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

Corresponding author: No

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

Corresponding author: No

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

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

Corresponding author: No

Scientific paper Format: Journal

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

Corresponding author: No

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

Corresponding author: No







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

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

Corresponding author: No

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

Corresponding author: No

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

DOI: 10.1049/iet-stb:20060003

Type of production: Scientific paper Format: Journal

Corresponding author: No

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

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

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

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

Corresponding author: Yes

Format: Book

Works submitted to national or international conferences

1 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

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.

2 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

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.

3 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

acceptance

Supporting Precision Medicine

Type of event: Conference Geographical area: European Union

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

communication

City of event: Barcelona, Catalonia, Spain

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

Corresponding author: Yes

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.







4 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.

5 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.

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.

7 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.

8 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.

9 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.

10 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.

11 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.

13 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.







14 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.

15 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.

16 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.

17 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.

18 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

19 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

20 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

21 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.

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.

23 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.

24 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







25 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

26 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.

27 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.

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.

29 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.

30 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.

31 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.

32 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.

33 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

34 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.

35 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.

36 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.







37 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

los profesionales sanitarios **Type of event:** Course

Corresponding author: Yes Reasons for participation: Upon invitation

Geographical area: National

City of event: Barcelona, Catalonia, Spain

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

Organising entity: Bioinformatics Barcelona Type of entity: Associations and Groups

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 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

Type of entity: University







Organising entity: Universidad Politécnica de

Valencia

City organizing entity: València, Valencian Community, Spain

Arnau Montagud.

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: Coorganizador del 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 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 Geographic

credits concerned **Start date:** 2019

Frequency of the activity: 4

Geographical area: Non EU International

2 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

Access system: With express recognition of the

credits concerned **Start date:** 2018

Frequency of the activity: 1

Geographical area: Non EU International

3 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

Frequency of the activity: 1







Type of activity: Review of articles in scientific or

technological journals

Access system: With express recognition of the

credits concerned Start date: 2018

Geographical area: Non EU International

4 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

5 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

technological journals

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

credits concerned Start date: 2012

6 Name of the activity: Revisión de artículos científicos

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

Type of entity: Business 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

Frequency of the activity: 2

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 - 31/12/2019

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)

Duration: 5 months

Duration: 7 months

Duration: 4 months

Duration: 3 months

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

5 Entity: DENMARK TECHNICAL UNIVERSITY Type of entity: 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 Type of entity: University

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 Type of entity: R&D Centre

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

Start date: 01/01/2019

Goals of the stay: Post-doctoral







Obtained grants and scholarships

1 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 Type of entity: Agencia de la Comisión Europea

and Technology Climate - Knowledge and Innovation

Community

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

Duration: 8 months

End date: 01/01/2014

Entity where activity was carried out: Universidad Politécnica de Valencia

Faculty, institute or centre: Departamento de Matemática Aplicada

2 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

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 Price 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



