





# C V n CURRÍCULUM VÍTAE NORMALIZADO



# José Luis Villanueva Cañas

Generated from: Editor CVN de FECYT Date of document: 15/10/2020

v 1.4.3

982ca9c6cca1a35f3c142a53ef6a1977

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/





# **Summary of CV**

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

I am currently the bioinformatics specialist within the Hospital Clínic de Barcelona, a world renowned institution. My main research goal in the medium-long term is to make full use of the wealth of genomic data available these days and contribute to the data analysis and automatisation in clinical diagnostics.

I have accumulated over ten years of experience in research, including two internships in the world-renowned institutions of Duke University (with Prof. Anne Yoder) and University College Dublin (with Prof. Emma Teeling). Throughout my PhD training I have accrued advanced programming skills (Python, bash, R), ample experience in NGS data analysis for model and non-model species, and expertise in techniques applied at genome-wide level.

So far I have made several contributions to the cutting edge field of genomics, working in first tier research institutions. Over the past years I have published fourteen scientific articles and one review, all in first quartile peer reviewed journals; in all of them I am either first author or made a substantial contribution. I have disseminated my research attending to many congresses and symposiums, both at the national and international level, giving talks or poster presentations.

I've been part of the teaching mentoring programme of the UPF, obtaining mentor skills and teaching experience in several subjects. I am currently directing bioinformatics MsC projects at the UOC and teaching in the MsC for bioinformatics in the UPF. In addition, I have also made contributions to science outreach in the form of articles, talks, and workshops in very different fields and institutions.





# 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.

All the published research articles belong to the first quartile of their category, and most of them to the first decile. My PhD thesis was awarded by the members of the examination board in the UPF with the special PhD prize in the academic year 2015-2016.





### José Luis Villanueva Cañas

Surname(s): Villanueva Cañas

Name: José Luis

ORCID: **0000-0001-7445-1267** 

Contact aut. region/reg.: Catalonia

### **Current professional situation**

**Employing entity:** HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA **Department:** CORE biologia molecular, Centro de diagnóstico biomédico (CDB)

Professional category: Specialist

Start date: 22/11/2019

Type of contract: Permanent employment Dedication regime: Full time

contract

**Employing entity:** Universidad Pompeu Fabra **Type of entity:** University

Department: Facultad de Ciencias de la Salud y de la Vida

Professional category: Adjunt associate professor

**Start date:** 01/10/2019

Type of contract: Temporary Dedication regime: Part time

Performed tasks: Teaching Principles of genome bioinformatics in the MsC in bioinformatics for health

sciences

**Employing entity:** Universitat Oberta de **Type of entity:** University

Catalunya

Professional category: Adjunt associate professor

Start date: 01/09/2018

Type of contract: Temporary employment contract

**Performed tasks:** Directing and evaluating MsC thesis in the Bioinformatics Master. Tutor.

#### **Previous positions and activities**

		Employing entity	Professional category	Start date
ſ	1	INSTITUTO DE BIOLOGIA EVOLUTIVA	Postdoctoral scientist	01/03/2016
ſ	2	Centro de Regulación Genómica	Postdoc / technician	01/04/2018
	3	INSTITUTO MUNICIPAL DE INVESTIGACION MEDICA	Predoctoral scientist	01/09/2010
	4	Centre de Recursos de Biodiversitat Animal	Database management	01/02/2010
	5	Parc Científic de Barcelona	Undergraduate internship	05/2009







1 Employing entity: INSTITUTO DE BIOLOGIA Type of entity: State agency

**EVOLUTIVA** 

**Professional category:** Postdoctoral scientist **Start-End date:** 01/03/2016 - 31/12/2107

**Dedication regime:** Full time

**2** Employing entity: Centro de Regulación Type of entity: University Centres and Structures

Genómica and Associated Bodies

Department: 4DGenome unit (Chromatin and Gene Expression Group), Centro de Regulación

Genómica

**Professional category:** Postdoc / technician **Start-End date:** 01/04/2018 - 15/11/2019

Type of contract: Temporary employment contract

3 Employing entity: INSTITUTO MUNICIPAL DE INVESTIGACION MEDICA

Department: Evolutionary genomics (Mar Albà), CONSORCI PARC DE RECERCA BIOMÉDICA DE

**BARCELONA** 

**Professional category:** Predoctoral scientist **Start-End date:** 01/09/2010 - 31/12/2015

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

Dedication regime: Full time

**4 Employing entity:** Centre de Recursos de **Type of entity:** University

**Biodiversitat Animal** 

Department: Universitat de Barcelona

City employing entity: Barcelona, Catalonia, Spain Professional category: Database management

Type of contract: Temporary employment contract

**Dedication regime:** Part time

Performed tasks: Mejora y actualización de la base de datos de la colección del Centre de Recursos

de Biodiversitat Animal (CRBA)

Field of management activity: University

**5** Employing entity: Parc Científic de Barcelona Type of entity: R&D Centre Department: Structural Bioinformatics (Patrick Aloy), Institut Recerca Biomèdica

**City employing entity:** Barcelona, Catalonia, Spain **Professional category:** Undergraduate internship

**Start-End date:** 05/2009 - 09/2009 **Duration:** 4 months **Type of contract:** Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Identify key words: Structural biology







# **Education**

# **University education**

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

1 University degree: Master

Name of qualification: Master in Bioinformatics for Health Sciences

City degree awarding entity: Barcelona, Catalonia, Spain

Degree awarding entity: Universidad Pompeu Fabra Type of entity: University

Date of qualification: 2012

2 University degree: Higher degree

Name of qualification: Licenciado en Biología Opción Biología Fundamental y Biotecnología.

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

Date of qualification: 2010

#### **Doctorates**

Doctorate programme: Programa Oficial de Doctorado en Biomedicina

Degree awarding entity: Universidad Pompeu Fabra Type of entity: University

City degree awarding entity: Barcelona, Catalonia, Spain

**Date of degree**: 20/11/2015

European doctorate: Yes Date of certificate: 20/11/2015

Thesis title: Insights into mammalian adaptive evolution through genomics data

Thesis director: Mar Albà Soler

Obtained qualification: Excelent cum laude

Recognition of quality: Yes

Special doctorate award: Yes Date of award: 04/04/2017

Standardised degree: No

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

1 Training title: Flipped classroom

Awarding entity: Universidad Pompeu Fabra

Type of entity: University

End date: 25/03/2020

Duration in hours: 10 hours

**2** Training title: Science communication

Awarding entity: Centro de Regulación Genómica

Type of entity: CIBER

Fund de la companion de

End date: 30/05/2018 Duration in hours: 18 hours







**3** Training title: Introduction to scientific data visualization

Awarding entity: FUNDACIO PARC DE RECERCA BIOMEDICA DE BARCELONA

End date: 26/10/2017

Duration in hours: 10 hours

4 Training title: Teaching mentoring programme

Awarding entity: Universidad Pompeu Fabra

Type of entity: University

End date: 2017

Duration in hours: 80 hours

**5** Training title: Say it so it stays: Oral presentations skills training for scientists

Awarding entity: FUNDACIO PARC DE RECERCA BIOMEDICA DE BARCELONA End date: 14/04/2016 Duration in hours: 24 hours

6 Training title: III Jornades d'energia, eficiència energètica i producció d'energies per a l'autoconsum

Awarding entity: Universitat de Girona

Type of entity: University
End date: 13/03/2016

Duration in hours: 10 hours

7 Training title: Write it clearly: fundamentals of good scientific writing

Awarding entity: FUNDACIO PARC DE RECERCA BIOMEDICA DE BARCELONA End date: 03/03/2016 Duration in hours: 12 hours

8 Training title: Técnicas actorales para la comunicación científica

Awarding entity: FUNDACIO PARC DE RECERCA BIOMEDICA DE BARCELONA End date: 21/01/2016 Duration in hours: 8 hours

**9** Training title: Popular science writing

Awarding entity: FUNDACIO PARC DE RECERCA BIOMEDICA DE BARCELONA

End date: 15/04/2015

Duration in hours: 14 hours

10 Type of training: Course

Training title: Analysis and manipulation of phylogenomic data using ETE python toolkit and treeKO

Awarding entity: Centro de Regulación Genómica Type of entity: University Centres and Structures and

**Associated Bodies** 

End date: 08/04/2011 Duration in hours: 18 hours

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan		C1	C1	C1	C1
Spanish		C1	C1	C1	C1
English		C1	C1	C1	C1







# **Teaching experience**

### General teaching experience

1 Name of the course: Introduction to Bioinformatics

University degree: PhD Biomedicine

**Start date:** 25/01/2019 **End date:** 12/04/2019

Entity: Centro de Regulación Genómica

Type of entity: University Centres and Structures and

**Associated Bodies** 

Name of the course: Basics Bioinformatic course University degree: Graduado o Graduada en Biología

**Start date:** 11/01/2019 **End date:** 22/03/2019

Entity: Centro de Regulación Genómica

Type of entity: University Centres and Structures and

**Associated Bodies** 

3 Name of the course: Wrokshop in Differential Expression analyses

University degree: Bioinformatics

**Start date**: 10/03/2017 **End date**: 10/03/2017

Entity: University of Valencia

Type of entity: University Research Institute

4 Name of the course: MEDICINA/BIOMEDICINA INTEGRADA I University degree: Graduado o Graduada en Biologia Humana

**Start date:** 01/2016 **End date:** 04/2016

Entity: Universidad Pompeu Fabra Type of entity: University

5 Name of the course: Workshop Inform Animation

Professional category: Scientific advisor

University degree: Erasmus Intensive Programme

Start date: 01/07/2013 End date: 31/07/2013 Entity: University of Alghero Type of entity: University

6 Name of the course: Principles of genome bioinformatics University degree: MsC bioinformatics for health sciences

University degree: MISC bioinformatics for health s

Start date: 01/10/2019

Entity: Universidad Pompeu Fabra Type of entity: University

Faculty, institute or centre: Facultad de Ciencias de la Salud y de la Vida

7 Name of the course: MEDICINA/BIOMEDICINA INTEGRADA III University degree: Graduado o Graduada en Biologia Humana

**Start date:** 03/2016

Entity: Universidad Pompeu Fabra Type of entity: University

8 Name of the course: Biomedicina integrada III

University degree: Graduado o Graduada en Biologia Humana

Entity: Universidad Pompeu Fabra Type of entity: University

Faculty, institute or centre: Facultad de Ciencias de la Salud y de la Vida







**9** Name of the course: bioinformatica

University degree: Graduado o Graduada en Biologia Humana

Entity: Universidad Pompeu Fabra Type of entity: University

10 Name of the course: Data management for research University degree: Graduado o Graduada en Biología

Entity: Centro de Regulación Genómica

Type of entity: University Centres and Structures and

**Associated Bodies** 

## Experience supervising doctoral thesis and/or final year projects

1 Project title: MsC Thesis: Analysis of the human microbiome bacterial diversity based on the GTDB taxonomy

Entity: Universitat Oberta de Catalunya Type of entity: University

Student: Manuel Jesus Dominguez Becerra

Date of reading: 01/07/2020

2 Project title: MsC Thesis: Impacto en la clínica del uso de diferentes genomas de referencia en la llamada de

variantes.

Entity: Universitat Oberta de Catalunya

Type of entity: University

**Student:** Pedro Salvador Escribano **Date of reading:** 01/07/2020

3 Project title: MsC Thesis: Búsqueda de genes expresados diferencialmente en el tejido adiposo de Cheirogaleus

medius durante la hibernación utilizando su genoma de referencia

Entity: Universitat Oberta de Catalunya

Type of entity: University

**Student:** Israel Blasco Ruano **Date of reading:** 10/01/2020

4 Project title: MsC Thesis: Deciphering host-pathogen interactions at the biomembrane interface, key to target

therapeutical approaches against Mycoplasma genitalium

Entity: Universitat Oberta de Catalunya Type of entity: University

**Student:** Guillem Macip Sancho **Date of reading:** 26/06/2019

5 Project title: MsC Thesis: Estudio pan-genómico de los géneros Escherichia y Shigella.

Entity: Universitat Oberta de Catalunya Type of entity: University

**Student:** Lucía Chacón Vargas **Date of reading:** 26/06/2019

6 Project title: MsC Thesis: Expresión diferencial de miRNAs y mRNAs a partir de datos de NGS en enfermedades

tiroideas autoinmunes

Entity: Universitat Oberta de Catalunya Type of entity: University

**Student:** Alberto Pérez Gómez **Date of reading:** 26/06/2019

7 Project title: MsC Thesis: Análisis del patrón de expresión de la tolerancia a endotoxinas en un modelo de

monocitos humanos mediante RNA-seq

Entity: Universitat Oberta de Catalunya Type of entity: University

Student: Victor Manuel Toledano Real





**Date of reading: 14/01/2019** 

# Scientific and technological experience

## Scientific or technological activities

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

1 Name of the project: Dynamics of genome architecture in stable and transient changes in gene expression

Entity where project took place: Centro de Regulación Genómica

City of entity: Barcelona,
Funding entity or bodies:

European Research Council Type of entity: State agency

Start-End date: 01/06/2014 - 31/05/2019

**Total amount:** 12.272.645 €

2 Name of the project: Evolución de nuevas funciones génicas en genomas de mamíferos

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: IMIM Hospital del Type of entity: Foundation

Mar Research Institute

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Mar Albà

N° of researchers: 8 Funding entity or bodies:

Ministerio de Economía y Competitividad **Type of entity:** State agency

City funding entity: Spain

**Start-End date:** 01/01/2013 - 31/12/2015 **Duration:** 2 years - 11 months

Total amount: 182.000 €

Dedication regime: Full time

3 Name of the project: Origin, diversification and diversity of metazoans, fungi and their unicellular relatives;

an ecological and evolutionary approach

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: Institut biologia evolutiva (IBE)

City of entity: Barcelona, Catalonia, Spain

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

N° of researchers: 2 Funding entity or bodies:

Ministerio de Economía y Hacienda **Type of entity:** Plan Nacional

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member Start-End date: 01/01/2015 - 31/12/2012

Total amount: 484 €

**Dedication regime:** Full time







4 Name of the project: Análisis a escala genómica de los patrones de selección natural en los genes de

mamíferos

**Type of project:** Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: IMIM Hospital del Type of entity: Foundation

Mar Research Institute

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Mar Albà

N° of researchers: 7 Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Start-End date: 01/01/2010 - 31/12/2012

Total amount: 203.000 € Dedication regime: Full time

# Scientific and technological activities

## Scientific production

### Publications, scientific and technical documents

José Luis Villanueva Cañas; Sheena Faherty; Marina Blanco; Anne Yoder; Mar Albà. Transcriptomics in the wild: Hibernation physiology in free-ranging dwarf lemurs. Molecular Ecology. 10/01/2018.

Type of production: Scientific paper Format: Journal

**Position of signature:** 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 5
Relevant publication: Yes

New genes and functional innovation in mammals. Genome biology and evolution. 9 - 7, Oxford academic, 01/07/2017. Available on-line at: <a href="http://biorxiv.org/content/early/2016/12/01/090860">http://biorxiv.org/content/early/2016/12/01/090860</a>>.

Type of production: Scientific paper Format: Journal

**Position of signature:** 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 6
Relevant publication: Yes

André Corvelo; Fernando Cruz; Federico Abascal; José Luis Villanueva Cañas; et al. Extreme genomic erosion in the highly endangered Iberian lynx.Genome Biology. Springer Nature, 14/12/2016.

Type of production: Scientific paper Format: Journal

**Position of signature:** 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 50 Relevant publication: Yes







José Luis Villanueva Cañas; Sheena Faherty; Peter Klopfer; Mar Albà; Anne Yoder. Gene expression profiling in the hibernating primate, Cheirogaleus medius. Genome Biology and Evolution. 8 - 8, 08/07/2016.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 5 Corresponding author: Yes

**Relevant results:** This is the first study to date where the RNAseq technique was used to study the changes in gene expression in the white adipose tissue in a unique genus of primate species capable of hibernation (non-model species). The fat tailed dwarf lemurs are endemic of Madagascar and under threat of extinction. This study was minimally invasive.

Relevant publication: Yes

5 Salla Vartia; José Luis Villanueva Cañas; Jens Carlsson. A novel method of microsatellite genotyping-by-sequencing using individual combinatorial barcoding. Royal Society Open Science. 3 - 1, Royal Society Publishing, 20/01/2016.

DOI: 10.1098/rsos.150565

Type of production: Scientific paper Format: Journal

Position of signature: 2 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 15
Relevant publication: Yes

José Luis Villanueva Cañas; Steve Laurie; Mar Albà. Improving Genome-Wide Scans of Positive Selection by Using Protein Isoforms of Similar Length. Genome Biology and Evoloution. 5 - 2, pp. 457 - 467. Oxford Journals, 25/01/2013. Available on-line at: <a href="http://gbe.oxfordjournals.org/content/5/2/457">http://gbe.oxfordjournals.org/content/5/2/457</a>>. ISSN 1759-6653

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Relevant publication: Yes

**7** Evolution of new proteins from translated sORFs in long non-coding RNAs. Experimental Cell Research. Academic Press, 07/03/2020.

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

Position of signature: 2

Total no. authors: 3 Corresponding author: No

**8** Expression of Oncogenic Drivers in 3D Cell Culture Depends on Nuclear ATP Synthesis by NUDT5. Cancers. 01/09/2019.

Type of production: Scientific paper Format: Journal

Position of signature: 5 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

**Total no. authors:** 7 **Corresponding author:** No

José Luis Villanueva Cañas; Laura Aguilera; Vivien Horvath; Josefa González. Diverse families of transposable elements affect the transcriptional regulation of stress-response genes in Drosophila melanogaster. Nucleic Acids Research. Oxford University Press, 30/05/2019.

Type of production: Scientific paper Format: Journal

Corresponding author: No

Stress response, behavior, and development are shaped by transposable element-induced mutations in Drosophila. PLOS genetics. 16/12/2018.

**DOI:** https://doi.org/10.1371/journal.pgen.1007900

Type of production: Scientific paper Format: Journal







Position of signature: 5 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 12 Corresponding author: No

11 Hormone-control regions mediate steroid receptor–dependent genome organization. Genome research.

15/11/2018.

**DOI:** http://www.genome.org/cgi/doi/10.1101/gr.243824.118.

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

Position of signature: 8 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 14 Corresponding author: No

Jorge Ruiz Orera; Pol Verdaguer; José Luis Villanueva Cañas; Xavier Messeguer; M. Mar Albà. Translation of neutrally evolving peptides provides a basis for de novo gene evolution. Nature Ecology & Evolution. 19/03/2018.

Type of production: Scientific paper Format: Journal

Position of signature: 3 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 5

José Luis Villanueva Cañas; Sheena Faherty; Anne Yoder; Maria del Mar Albà Soler. Comparative genomics of mammalian hibernators using networks. Integrative and Comparative Biology. In press, 01/05/2014.

Type of production: Scientific paper Format: Journal

14 José Luis Villanueva Cañas; Sara Díez Santidrián. Hibernación humana: ciencia y ficción. «Ciència i ficció.

L'exploració creativa dels mons reals i dels irreals». 2016.

**Type of production:** Popular science article **Format:** Book

Corresponding author: Yes

Jo?e Luis Villanueva Cañas; Gabriel E. Rech; M.A. Rodríguez de Cara; Josefa González. Beyond SNPs: How to

detect selection on transposable element insertions. Methods in Ecology and Evolution. 2017.

Type of production: Review Format: Journal

### Works submitted to national or international conferences

1 Title of the work: Transposable elements affect the transcriptional regulation of stress response genes in

Drosophila and humans

Name of the conference: II Joint Congress on Evolutionary Biology

Type of event: Conference
Corresponding author: No
City of event: Montpellier, France

Date of event: 19/09/2018 End date: 22/09/2018 Organising entity: ESEB

With external admission assessment committee: Yes José Luis Villanueva Cañas; Vivien Horvath; Josefa González.

**2 Title of the work:** Using transcriptomics to study hibernation in a natural primate population.

Name of the conference: SMBE 2018

**Type of participation:** Participatory - oral communication

City of event: Yokohama, Japan Date of event: 08/07/2018





End date: 12/07/2018

Organising entity: SMBE

Type of entity: Associations and Groups

**3 Title of the work:** New genes and evolutionary innovation in mammals

Name of the conference: SMBE symposim: Evolution of gene families + Quest for Orthologs 2017 meeting

Type of event: Conference Corresponding author: Yes

City of event: Los Angeles, United States of America

Date of event: 08/06/2017 End date: 10/06/2017

Organising entity: SMBE Type of entity: Associations and Groups

4 Title of the work: The role of transposable element insertions in environmental adaptation in Drosophila

melanogaster

Name of the conference: XXI Seminario de Genética de Poblaciones y Evolución

Corresponding author: No City of event: Sitges, Spain Date of event: 03/10/2016 End date: 05/10/2016

Organising entity: Sociedad española de genética

**5 Title of the work:** New genes and functional innovation in mammals

Name of the conference: XVI Jornades de Biologia Evolutiva

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 27/06/2016

Organising entity: Societat Catalana de Biologia Type of entity: Associations and Groups

José Luis Villanueva Cañas; Maria del Mar Albà Soler.

Title of the work: Characterization of de novo gene evolution across the mammalian phylogeny.

Name of the conference: Annual meeting of the Society for Molecular Biology and Evolution

Type of event: Conference Corresponding author: Yes City of event: Vienna, Austria Date of event: 13/07/2015 End date: 16/07/2015

Organising entity: Society for Molecular Biology and Type of entity: Associations and Groups

Evolution (SMBE)

José Luis Villanueva Cañas; Mar Albà Soler.

7 Title of the work: Exploring hibernation in mammals through transcriptomics: the case of the hibernating

lemur

Name of the conference: Jornada de Biologia Evolutiva

Type of event: Workshop

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

communication acceptance

City of event: Barcelona, Catalonia, Spain

**Date of event:** 01/07/2015

Organising entity: Societat Catalana de Biologia







8 Title of the work: Exploring hibernation in mammals through transcriptomics: the case of the hibernating

lemur

Name of the conference: XII symposium on bioinformatics

Type of event: Conference Geographical area: European Union

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

acceptance

City of event: Sevilla, Andalusia, Spain

Date of event: 21/09/2014 End date: 24/09/2014

Organising entity: International society for computational biology

9 Title of the work: Insights into mammalian adaptation through genome-wide analysis

Name of the conference: SBES seminar day

Type of event: Seminar

**Type of participation:** Participatory - oral communication **City of event:** Dublin, Southern and Eastern, Ireland

Date of event: 05/12/2013

Organising entity: University College Dublin Type of entity: University

José Luis Villanueva Cañas.

10 Title of the work: Incorporating protein isoform information into genome-wide studies. Impact on positive

selection

Name of the conference: XIII Jornada de Biologia Evolutiva

Type of event: Workshop Geographical area: National

Type of participation: Participatory - oral communication

City of event: Barcelona, Catalonia, Spain

**Date of event:** 02/07/2013

Organising entity: Societat Catalana de Biologia Type of entity: Associations and Groups

With external admission assessment committee: Yes

José Luis Villanueva Cañas. En: Incorporating protein isoform information into genome-wide studies.

Impact on positive selection. 02/07/2013.

11 Title of the work: Not another alignment program paper: How to improve multiple alignments by selecting

the appropiate isoform combination.

Name of the conference: Society for Molecular Biology & Evolution Conference 2012

Type of event: Conference Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Dublin, Border, Midland and Western, Ireland

Date of event: 23/06/2012 End date: 26/06/2012

Organising entity: SMBE Type of entity: Associations and Groups

José Luis Villanueva Cañas; Mar Albà. En: Not another alignment program paper: How to improve

multiple alignments by selecting the appropiate isoform combination..

12 Title of the work: Transcript selection in multiple alignments: how to mitigate this major source of error

Name of the conference: GRIB expo

Geographical area: Regional

**Type of participation:** 'Participatory - poster **City of event:** Barcelona, Catalonia, Spain

Date of event: 26/04/2012

Organising entity: Grup Recerca Informàtica Biomèdica







José Luis Villanueva Cañas; Mar Albà.

13 Title of the work: Why do we have bad multiple alignments: transcript selection as a major source of errors.

Name of the conference: XI Jornadas de Bioinformática

Type of event: Workshop Geographical area: National

Type of participation: 'Participatory - poster

City of event: Barcelona, Date of event: 23/01/2012 End date: 25/12/2013

**Organising entity:** PRBB, UPF, CNAG José Luis Villanueva Cañas; Mar Albà.

14 Title of the work: Which protein isoform to use when making multiple alignments of orthologous genes

Name of the conference: III Congreso de la Sociedad Española de Biología Evolutiva

Geographical area: National

**Type of participation:** 'Participatory - poster **City of event:** Madrid, Community of Madrid, Spain

**Date of event:** 21/11/2011 **End date:** 25/11/2011

Organising entity: Sociedad Española de Biología Evolutiva

José Luis Villanueva Cañas; Mar Albà.

15 Title of the work: Which protein isoform to use when making multiple alignments of orthologous genes

Name of the conference: X CRG Annual Symposium

City of event: Barcelona, Catalonia, Spain

**Date of event:** 10/11/2011 **End date:** 11/11/2011

Organising entity: Centro de Regulación Genómica Type of entity: University Centres and Structures

and Associated Bodies

José Luis Villanueva Cañas; Mar Albà.

#### Other dissemination activities

1 Title of the work: Ada lovelace workshop 2019

City of event: Barcelona, Spain Date of event: 08/10/2019

Organising entity: Centro de Regulación Genómica Type of entity: University Centres and Structures

and Associated Bodies

Title of the work: Open Day 2019
Type of event: Fairs and exhibitions
City of event: Barcelona, Spain
Date of event: 05/10/2019

Organising entity: CONSORCI PARC DE RECERCA BIOMÉDICA DE BARCELONA

3 Title of the work: Beyond Jurassic Park: Frontiers of science and science fiction

Name of the event: Pint of Science 2019 Type of event: Conferences given City of event: Barcelona, Spain Date of event: 22/05/2019







Organising entity: Pint of Science Spain

Type of entity: Associations and Groups

4 Title of the work: El sueño de la hibernación humana

Name of the event: BCNSPIRACY 2018 Type of event: Conferences given Corresponding author: Yes City of event: Barcelona, Date of event: 27/10/2018

5 Title of the work: Lemurs are cool Name of the event: Science Slam Type of event: Conferences given

City of event: Barcelona, Catalonia, Spain

**Date of event:** 31/05/2018

Organising entity: BIST

Organising entity: BIST Type of entity: Public Research Body

**6** Title of the work: Dogs, genomes, and machine learning

Name of the event: YoMo: Youth mobile festival

**Type of event:** Fairs and exhibitions **City of event:** Barcelona, Catalonia, Spain

Date of event: 01/03/2018

Organising entity: Mobile world congress

7 Title of the work: Open Day PRBBName of the event: Open DayType of event: Fairs and exhibitions

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 07/10/2017

Organising entity: PARC DE RECERCA Type of entity: R&D Centre

BIOMEDICA DE BARCELONA

8 Title of the work: Explorando los genomas de mamíferos: Lémures que hibernan

Name of the event: Ciència a les escoles 2016

Type of event: Conferences given Corresponding author: Yes

City of event: Mollet, Catalonia, Spain

Date of event: 16/11/2016

Organising entity: Fundació Catalana per a la Type of entity: Foundation

Recerca i la Innovació

City organizing entity: Catalonia, Spain

**9** Title of the work: Beyond Jurassic Park: Frontiers of science and science fiction

Name of the event: Eurocon2016 Type of event: Conferences given Corresponding author: Yes City of event: Barcelona, Date of event: 06/11/2016

Organising entity: European science fiction society Type of entity: Associations and Groups







10 Title of the work: Open Day PRBB
Name of the event: Open Day
Type of event: Fairs and exhibitions

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 01/10/2016

Organising entity: PARC DE RECERCA

**BIOMEDICA DE BARCELONA** 

11 Title of the work: ¿Hibernación humana? El secreto está en los genes de este lémur

Name of the event: press article Type of event: Media interviews Date of event: 11/09/2016 Organising entity: El periódico

"http://www.elperiodico.com/es/noticias/ciencia/genes-lemur-acercan-sueno-hibernacion-humana-5370752".

Type of entity: R&D Centre

Type of entity: Foundation

Type of entity: R&D Centre

12 Title of the work: Per a què serveix la bioinformàtica?

Name of the event: Saló de l'ensenyament

**Type of event:** Fairs and exhibitions **City of event:** Barcelona, Catalonia, Spain

Date of event: 10/03/2016

Organising entity: Fundació Catalana per a la

Recerca i Innovació

13 Title of the work: Melanogaster: catch the fly

Type of event: Citizen science project

City of event: Spain

Date of event: 2016

Organising entity: LCATM Type of entity: Associations and Groups

"http://melanogaster.eu/".

14 Title of the work: Explorando los genomas de mamíferos: Lémures que hibernan

Name of the event: Ciència a les escoles 2015

Type of event: Conferences given Corresponding author: Yes

City of event: Cardedeu, Catalonia, Spain

**Date of event:** 18/11/2015

Organising entity: Fundació Catalana per a la Type of entity: Foundation

Recerca i la Innovació

City organizing entity: Catalonia, Spain

15 Title of the work: Laboratorio de genómica evolutiva

Name of the event: Open Day

Type of event: Fairs and exhibitions

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 03/10/2015

Organising entity: PARC DE RECERCA

**BIOMEDICA DE BARCELONA** 





Type of entity: Foundation

Type of entity: R&D Centre



**Title of the work:** Historias de la genómica Name of the event: Ciència a les escoles 2014

Type of event: Conferences given Corresponding author: Yes

City of event: Granollers, Catalonia, Spain

Date of event: 19/11/2014

Organising entity: Fundació Catalana per a la

Recerca i la Innovació

17 Title of the work: Laboratorio de genómica evolutiva

Name of the event: Open Day

Type of event: Fairs and exhibitions

Corresponding author: Yes

City of event: Barcelona, Spain Date of event: 04/10/2014

Organising entity: PARC DE RECERCA Type of entity: R&D Centre

**BIOMEDICA DE BARCELONA** 

18 Title of the work: Open Day PRBB
Name of the event: Open Day
Type of event: Fairs and exhibitions

Corresponding author: Yes City of event: Barcelona, Spain Date of event: 01/10/2011

Organising entity: PARC DE RECERCA

BIOMEDICA DE BARCELONA

19 Title of the work: Introducción a la biomedicina

Name of the event: Talleres de biomedicina (semanales)

Type of event: Fairs and exhibitions

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 2009

Organising entity: Fun science

20 Title of the work: Monitor naturaleza / Guía

Type of event: Monitor naturaleza / Guía / Talleres

Date of event: 2008

Organising entity: Varias (ACCAC, Eix estels, Pere Type of entity: Business

Tarrés)







#### Other achievements

### Stays in public or private R&D centres

1 Entity: University College Dublin

Faculty, institute or centre: School of biology and environmental sciences

City of entity: Dublin, Southern and Eastern, Ireland

Funding entity: Ministerio de Ciencia e Innovación. Type of entity: Ministerio de economía y

Investigación competitividad

Goals of the stay: Doctorate

Provable tasks: Comparative genomics, NGS, RNA-seq

2 Entity: Duke University Type of entity: University

Faculty, institute or centre: Biology

City of entity: Durham, United States of America Primary (UNESCO code): 240900 - Genetics

Secondary (UNESCO code): 240113 - Animal physiology

Start-End date: 17/09/2012 - 19/12/2012 Duration: 3 months
Funding entity: Ministerio de Ciencia e Innovación.

Type of entity: Ministerio

Investigación

Name of programme: FPI Goals of the stay: Doctorate

Provable tasks: Genómica comparativa, RNAseq, hibernación

Acquired skills developed: RNA-seq

#### Obtained grants and scholarships

1 Name of the grant: Formación Personal Investigador (FPI)

City awarding entity: Spain

Aims: Pre-doctoral

Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA

Amount of the grant: 70.408 €

Conferral date: 01/09/2010 Duration: 4 years

End date: 01/09/2014

Entity where activity was carried out: IMIM Hospital del Mar Research Institute

Faculty, institute or centre: GRIB

**2** Name of the grant: Young investigator travel award

Aims: Post-doctoral

Awarding entity: SMBE

Type of entity: Associations and Groups

**Conferral date: 16/03/2018** 

3 Name of the grant: EMBL travel grant

Aims: Post-doctoral

Awarding entity: EMBL

Type of entity: Public Research Body

Conferral date: 11/10/2017







Entity where activity was carried out: EMBL Heidelberg

4 Name of the grant: SMBE travel grant

City awarding entity: United States of America

Aims: Post-doctoral
Awarding entity: SMBE

ng entity: SMBE Type of entity: Associations and Groups

Amount of the grant: 850 €

Name of the grant: Estancia FPIAims: Estancia predoctoral

Awarding entity: Ministerio de Economía y Competitividad

Amount of the grant: 6.000 €

Conferral date: 2012 Duration: 3 months - 3 days

6 Name of the grant: Estancia FPI
City awarding entity: Spain
Aims: Estancia predoctoral

Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA

Amount of the grant: 6.000 €

Conferral date: 2011

7 Name of the grant: Summer at the Park

Aims: Beca prácticas

Awarding entity: Parc Científic de Barcelona Type of entity: R&D Centre

Conferral date: 2009 Duration: 4 months

### Scientific societies and professional associations

1 Name of the society: Quadrivium City affiliation entity: Barcelona,

Start date: 2017

2 Name of the society: Societat Catalana de Biologia

Start date: 2012

**3** Name of the society: Society for Molecular Biology and Evolution

Start date: 2012

4 Name of the society: Sociedad Española de Biología evolutiva

Start date: 2011







# Co-operation networks

1 Name of the network: 4DGenome

Start date: 01/04/2018

2 Name of the network: Adaptnet

Identification of the network: Genomics of adaptation: https://adaptnet.es/

Participating entity/entities: CONSORCI **Type of entity:**; University; University; University; CSIC-IRTA-UAB CENTRE DE RECERCA EN Foundation; State agency; State agency; Public

AGRIGENOMICA (CRAG); Universidad Complutense Research Body; CIBER

de Madrid; Universitat de Barcelona; universidad vigo; IBE; Estación Biológica de Doñana; Real Jardín Botánico; museo nacional ciencias naturales; Centro

de Regulación Genómica

Start date: 2016

3 Name of the network: DrosEU

Identification of the network: Genomics Nº of researchers: 60 Participating entity/entities: INSTITUTO DE Type of entity: State agency

**BIOLOGIA EVOLUTIVA** 

Tasks carried out: Bioinformatics, genomics, TE research

Start date: 2016

4 Name of the network: Lynx genomics

N° of researchers: 50

Participating entity/entities: Universidad Pompeu Fabra; Universidad de Oviedo; Universitat Autònoma University Centres and Structures and Associated de Barcelona; Centro Nacional de Análisis Genómico Bodies; University Centres and Structures and (CNAG); Centro de Regulación Genómica; Consejo Superior de Investigaciones Científicas; Centro Nacional de Investigaciones Oncológicas

**Type of entity:** University; University; University; Associated Bodies; State agency; Healthcare

Institutions

Tasks carried out: Analysis of RNAseq data, analysis of signatures of natural selection, identification of

lineage-specific genes

Start date: 2012 **Duration:** 3 years

5 Name of the network: Instituto Nacional Bioinformática (INB)

Programme on Biomedical Informatics (IMIM-UPF)

### Summary of other achievements

**1 Description of the achievement:** Finalist in RIN4 competition

Accrediting entity: Facultad de Ciencias de la Salud Type of entity: University Centres and Structures

y de la Vida and Associated Bodies

**Conferral date: 20/05/2016** 

2 Description of the achievement: Active member in the biostars community

Accrediting entity: https://www.biostars.org/u/3742/ Type of entity: Associations and Groups



