

PERSONAL INFORMATION

Name: Valencia, Alfonso

Researcher unique identifier: ORCID number 0000-0002-8937-6789

Researcher ID: [AAN-9230-2020](https://orcid.org/0000-0002-8937-6789)

Date of birth: August 29th 1959

Nationality: Spanish

URL for website: <https://www.bsc.es/discover-bsc/organisation/scientific-structure/computational-biology>
https://en.wikipedia.org/wiki/Alfonso_Valencia

@alfons_valencia

- **EDUCATION**

1988 Ph.D. in Biochemistry and Molecular Biology, Universidad Autónoma, Madrid, Spain

1983 M.Sc. in Genetics, Universidad Complutense, Madrid, Spain

1981 B.Sc. in Biological Sciences, Universidad Complutense, Madrid, Spain

- **CURRENT POSITION**

2017 - Present Director Life Sciences Department, Barcelona Supercomputing Centre BSC

2017 - Present ICREA Research Professor

2004 - Present Director of the Spanish National Bioinformatics Institute (INB-ISCIH).

2014 - Present Head of the Spanish node of ELIXIR (European Bioinformatics Infrastructure)

- **INSTITUTIONAL RESPONSABILITIES**

2013 - present Head of the Spanish node of ELIXIR (European infrastructure for life-science information)

2015 - 2018 President of the International Society for Computational Biology (ISCB), the professional association of Bioinformaticians and Computational Biologists.

Since 2002 Director of the Master “Biology and Computational Biology” (since 2013 at ISCIH)

- **PREVIOUS POSITIONS**

2014 - 2017 ViceDirector basic Research CNIO.

2006 - 2017 Director Structural Biology and Biocomputing Programme
 Spanish National Cancer research Center (CNIO), Madrid, Spain

2002 - 2006 Group Leader and Research Professor, National Centre for Biotechnology (CNB) CSIC,
 Madrid, Spain

1995 - 2002 Group Leader, National Centre for Biotechnology (CNB) CSIC, Madrid, Spain

1990 - 1994 Tenure position at the National Centre for Biotechnology, CSIC, Spain

1991 - 1994 Visiting scientist, EMBL Heidelberg, Chris Sander’s lab

1989 - 1991 EMBO Post-doctoral fellow, EMBL Heidelberg, Chris Sander’s lab

1988 - 1989 Different positions at the Instituto de Investigaciones Biomédicas CSIC, Madrid, Spain
 (Post-doctoral researcher, teaching assistant, responsible of the bioinformatics Service)

1987 - 1987 Visiting scientist in the lab of Dr. Kenneth Ingham. American Red Cross, Bethesda

- **RESEARCH INTERESTS**

Computational biology, Bioinformatics, Text Mining, Systems Biology, Genomics,

- **SCIENTIFIC ACCOMPLISHMENTS**

More than **400 papers in biological and computational journals; H-index of 109 in g-scholar, more than 58.000 citations** (<https://scholar.google.com.ar/citations?hl=en&user=4iB725QAAAAJ>); Most cited papers include collaborations with biologists, analyses of biological problems, and a some collaborations in large scale project, but mostly consist of papers developing methods, many of which initiated research lines later followed by others (co-evolution based methods in structural bioinformatics, text mining in molecular biology, system for systematic genome annotation, protein interactions prediction with computational methods, disease comorbidities based on molecular data, among others).

- **MEMBERSHIP TO SCIENTIFIC ADVISORY COMMITTEES**

- Since 2021 Member of the Data Science Committee at the Novo Nordisk Foundation
- Since 2021 Panel member of the European Research Council Synergy Grants Committee
- Since 2021 Member of the Scientific Advisory Board of the Barcelona Institute for Global Health (ISGlobal)
- Since 2020 Member of the Scientific Advisory Board of the Institut Universitaire du Cancer de Toulouse
- Since 2020 Vice-Chair of the Scientific Committee of IMI – Innovative Medicines Initiative
- Since 2018 Member of the Scientific Committee of IMI – Innovative Medicines Initiative
- Since 2018 Member of the Scientific Committee of the "Programmes Transversaux " set up by the "Institut National de la Santé et de la Recherche Médicale (INSERM)
- Since 2018 Member of the Scientific Advisory Board of the Institute of Genetics and Development of Rennes (IGDR)
- Since 2017 Member of the Turing Centre for Living Systems (CENTURI) Scientific Advisory Board
- Since 2015 Member of the Institute Curie bioinformatics program Scientific Advisory Board (chair)
- Since 2014 Member of SAB of the Biology Department UPF Barcelona
- Since 2014 Member of SAB of the Barcelona Biomedicine Research Institute (IRB Barcelona)
- Since 2008 Member of the Intepro database SAB
- Since 2008 Member of the Swiss Institute of Bioinformatics SAB (Since 2014 chair)
- 2012 - 2019 Member of the EBI Chemical Databases SAB
- 2014 - 2018 Member of SourceData Scientific Board (EMBO)
- 2009 - 2013 Member of the Spanish Grant Evaluation Agency (ANEP)
- 2008 - 2014 Member of the ERC Peer Review Panels of the ERC Advanced Grant scheme
- 2006 - 2012 Member of the BioZentrum Basel SAC
- 2007 - 2013 Member of the EMBL Scientific Advisory Committee
- 2003 - 2006 Member of the CSIC Life sciences scientific committee
- 2000 - 2011 Member of the steering committee, and chair of the workshop and course committee of the ESF programme on "Functional Genomics" & "Frontiers of Functional Genomics"
- 1994 - 1999 External Advisor, Lion Bioscience AG

Member of EU evaluation panels in the V; VI, and VII Framework Programmes)

Referee of projects for the European Union, ESF, HFSO, Member of the Evaluation Panel of the Program Ramon Cajal and the ICREA programmes and Spanish National Grant Evaluation Agency (ANEP) - Spanish Ministry of Education and Science, Spanish Ministry of Health, Netherlands founding agency, Danish Grant agency, WellcomTrust, MRC, German DFG, Israel Science Foundation and others.

- **SCIENCE COMMUNITY SERVICES**

- 2015 - 2019 Member of the EMBO conferences and courses committee
- 2007 - 2011 Member of the EMBO postdoctoral fellowship committee
- 2007 - 2013 Steering committee member of the ELIXIR bioinformatics EU ESFRI initiative
- 2004, 06, 08 Assessor of the CASP Community Challenge
- 2000 - 2010 Member of the steering committees and chair of the workshop and course committees of the ESF programmes on "Functional Genomics" and "Beyond Functional Genomics"
- 2002 - Present Steering committee of the European Conference of Computational Biology since 2002.
- 1997 Founder of the International Society for Computational Biology (ISCB)

- **INVOLVEMENT WITH SCIENTIFIC JOURNALS**

- Since 2015 Member of the Editorial Board of eLIFE
- Since 2013 Member of the Editorial Board of PeerJ
- Since 2014 Member of the Editorial Board of FEBS Letters
- Since 2004 Executive Editor of BIOINFORMATICS – OUP the main journal in the field of Bioinformatics (previously Associate Editor since 2002)

Reviewer for the main journals including Nature and Science

Former member of the Editorial Board of EMBO Journal and EMBO Reports and others

- HONORS AND AWARDS**

- 2010 Professor Honoris Causa of the Danish Technical University DTU
 2009 Elected Fellow of the International Society for Computational Biology (ISCB)
 2005 Elected member of the European Molecular Biology Organization (EMBO)
 2003, 2004 Recognition of Achievements Spanish National Research Council (CSIC)

On-going Grants:

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>
HPC Centre of Excellence in Personalised Medicine - PerMedCoE	H2020, EC	714.410€	1.10.2020 – 30.6.2023	Principal Investigator / Coordinator
EXSCALATE4CoV E4C	H2020, EC	232.375€	1.4.2020 – 30.9.2021	Partner
El Català i la IA	Catalan Government	250.000€	1.1.2020 – 31.12.2020	Principal Investigator
Plan de Tecnologías del Lenguaje	Spanish Government	2.845.307€	1.1.2019 – 31.12.2022	Principal Investigator
eTRANSafe	Spanish Government	487.451€	1.9.2017- 31.8.2022	Principal Investigator
Plataforma de Recursos Biomoleculares e Informáticos - Instituto Nacional de Bioinformática	Instituto de Salud Carlos III	1.121.339€	1.1.2018 – 31.12.2020	Principal Investigator
EPIC	Spanish Government	176.052€	1.1.2016- 30.9.2019	Principal Investigator
EPICStemic	Spanish Government	217.800€	1.1.2019 – 31.12.2022	Principal Investigator
INFORE	H2020 , EC	502.500€	01.12.2018- 31.12.2021	Principal Investigator for BSC
iPC	H2020, EC	939.304€	1.1.2019 – 31.12.2022	Principal Investigator for BSC
EOSC-Life	H2020, EC	43.750€	1.3.2019 – 28.2.2023	Principal Investigator for BSC
European Joint Programme on Rare Diseases	H2020, EC	291.828	1.1.2019 – 31.12.2023	Principal Investigator for BSC

Previous grants

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>
Elixir Excelerate	H20202, EC	380.000€	21.7.2017- 31.8.2019	Principal Investigator for BSC
Plataforma de Recursos Biomoleculares e Informáticos - Instituto Nacional de Bioinformática	Instituto de Salud Carlos III	966.130€	1.7.2017 – 31.12.2018	Principal Investigator

RD-connect	FP7	900.000€	2.11.2012 – 31.10.2018	Principal Investigator for CNIO/BSC
OpenMinTeD	H2020	559.875€	1.7.2016 – 31.6.2018	Principal Investigator for CNIO/BSC
BLUEPRINT	FP7	707.000€	1.1.2012 – 30.6.2016	Principal Investigator for CNIO
ASSET	FP7	675.600	2.11.2012 – 31.10.2018	Principal Investigator for CNIO
ONCONET	Interreg SUDOE	189.816€	1.7.2016 – 31.6.2018	Principal Investigator for CNIO
OpenPhacts	IMI	9.988.867€	1.3.2011 – 29.2.2016	Principal Investigator for CNIO
eTOX	IMI	474.860€	1.1.2010 – 31.12.2016	Principal Investigator for CNIO
GENCODE	NIH	415.913€	1.4.2013 – 31.3-2017	Principal Investigator for CNIO
BIO2016	MINECO Spain	199.650€	1.1.2016 – 31.12.2018	Principal Investigator

Contracts

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>
HPC technology innovation lab research agreement between BSC and Huawei	Huawei	600.000€	1.7.2020-30.6.2023	Principal Investigator
Convenio de investigación covid19 (BSC-IrsiCaixa, Irta)	Grifols	275.300€	20.3.2020 – 19.3.2023	Principal Investigator
Collaboration Agreement between IBM and BSC	IBM	580.439€	1.3.2016 – 31.12.2019	Principal Investigator
Collaboration agreement between Lenovo and BSC	Lenovo	392.173€	1.4.2016 – 31.3.2020	Principal Investigator
Precision Medicine from Big Data to Cognitive Computing	Fundación BBVA	90.000€	1.10.2016 – 30.9.2018	Principal Investigator



Prof. Alfonso Valencia is ICREA research Professor, Director of the Life Sciences Department of the Barcelona Supercomputing Center, and Director of the Spanish National Bioinformatics Institute INB-ELIXIR-ES. His research interest is the development of Computational Biology methods and their application to biomedical problems. Some of the computational methods he developed are considered pioneering work in areas such as biological text mining, protein coevolution and more recently epigenetic and disease networks. He participates in some of the key international consortiums, including the ones in cancer genomics, rare diseases, epigenetics and human genome annotation. At the

infrastructure level his group has contributed to the establishment and maintenance of community resources such as BioCreative, Limtox, ChimeraDB, APPRIS or FireDB. In terms of community services, he is one of the initial promoters of what is now the ELIXIR infrastructure, founder of the Spanish Bioinformatics network and founder member and former president of ISCB the professional association of Bioinformaticians and the Executive Editor of the main journal in the field (Bioinformatics OUP).

Ten representative publications from the last ten years:

1. Tress M, Abascal F, **Valencia A.** (2017) Alternative splicing may not be the key to proteome complexity. *Trends in biochemical sciences* 42, 98-110. [103 citations](#)
2. Juan D., Perner J., Carrillo de Santa Pau E., Marsili S., Ochoa D., Chung HR., Vingron M., Rico D., **Valencia A.** (2016) Epigenomic Co-localization and Co-evolution Reveal a Key Role for 5hmC as a Communication Hub in the Chromatin Network of ESCs. *Cell Reports* 14(5) 1246-1257. [30 citations](#).
3. Fernández JM., de la Torre V., Richardson D., Royo R., Puiggros M., Moncunill V., Fragkogianni, S., Clarke L., Flicek P., Rico D., Torrents D., Carrillo de Santa Pau E., **Valencia A.** (2016) The BLUEPRINT Data Analysis Portal. *Cell Systems* 3(5)491-495.e5. [33 citations](#).
4. Krallinger M, Rabal O, Leitner F, Vazquez M, Salgado D, Lu Z, Leaman R, Lu Y, Ji D, Lowe DM, Sayle RA, Batista-Navarro RT, Rak R8, Huber T, Rocktäschel T, Matos S, Campos D, Tang B, Xu H, Munkhdalai T, Ryu KH, Ramanan SV, Nathan S, Žitnik S, Bajec M, Weber L, Irmer M, Akhondi SA, Kors JA, Xu S, An X, Sikdar UK, Ekbal A, Yoshioka M, Dieb TM, Choi M, Verspoor K, Khabsa M, Giles CL, Liu H, Ravikumar KE, Lamurias A, Couto FM, Dai HJ, Tsai RT, Ata C1, Can T1, Usié A, Alves R, Segura-Bedmar I, Martínez P, Oyarzabal J, **Valencia A.** (2015) The CHEMDNER corpus of chemicals and drugs and its annotation principles. *Journal of cheminformatics* 7 (1), S2. [86 citations](#).
5. Krallinger M, Leitner F, Rabal O, Vazquez M, Oyarzabal J, **Valencia A.** (2015). CHEMDNER: The drugs and chemical names extraction challenge. *Journal of cheminformatics* 7, S1. [111 citations](#)
6. Ibáñez K., Boullosa, C., Tabarés-Siesdedos R., Baudot A., **Valencia A.** (2014) Molecular Evidence for the Inverse Comorbidity between Central Nervous System Disorders and Cancers Detected by Transcriptomic Meta-analyses. *PLoS Genetics* 10(2). [97 citations](#).
7. Rojas AM, Fuentes G, Rausell A, **Valencia A.** (2012) The Ras protein superfamily: evolutionary tree and role of conserved amino acids. *J cell Biol* 196, 189-201 [276 citations](#).
8. Frenkel-Morgenstern, M., Laroix V., Ezkurdia I., Levin Y., Gabashvili A., Prilusky, J., Del Pozo A., Tress M, Johnson R., Guigó R., **Valencia A.** (2012) Chimeras taking shape: Potential functions of proteins encoded by chimeric RNA transcripts. *Genome Research* 22(7) 1231-1242. [118 citations](#).
9. Glaab, E., Baudot, A., Krasnogor, N., Schneider, R., **Valencia, A.** (2012) EnrichNet: Network-based gene set enrichment analysis. *Bioinformatics* 28(18), i451-i457. [219 citations](#).
10. Wass MN, Fuentes G., Pons C., Pazos F., **Valencia A.** (2011) Towards the prediction of protein interaction partners using physical docking. *Molecular Systems Biology* 7. [118 citations](#).

Total publications: 438; h Index: 89 (Scopus); citations: 43.789 (Scopus)

Full publication track in Annex 1: <https://orcid.org/0000-0002-8937-6789>

Google Scholar: <https://scholar.google.es/citations?user=4iB725QAAAAJ&hl=es&oi=ao>

International conferences.

More than 10 KN invited talks per year. I have delivered the main keynote in the meetings of each one of the main bioinformatics conferences, e.g. ECCB (European Conference on Computational Biology), ISMB (International Society for Computational Biology), RECOMB (Research in Computational Molecular Biology) and GIW (International Conference on Genome Informatics).

Organizer of numerous national and international conferences, including ECCB (European Conference on Computational Biology 2015 Madrid, 2020 Barcelona) and ISMB (International Society for Computational Biology as part of organizing or scientific committees/boards).

- Organizer of the ECCB2020
- Main organizer of various BioCreative Challenges since 2004.
- I have been the co-organizer of the Biolink Text mining workshop link to ISMB 2002 - 2015.
- Main organizer of the ESF “1st European Conference on Synthetic Biology”, 2007
- As director of the Spanish National Bioinformatics Institute and coordinator of the Spanish Bioinformatics Network, I have had a direct participation at various levels in the organization of the Annual meetings of the Spanish Bioinformaticians since they started in the year 2000.
- I was part of the organizing committee of the “Bologna Winter School” for its first ten years.
- Organizer of Barcelona NGS Conference in its three editions 2015, 16 and 17.

Open Source Software and Technological Platforms

- EPICO (Epigenomics comparative cyber-infrastructure): Using EPICO, large epigenome projects can make available their rich datasets to the community without requiring specific technical skills. EPICO can be accessed at <https://github.com/inab>
- BDAP (BLUEPRINT Data Analysis Portal): BDAP can be accessed at <http://blueprint-data.bsc.es>
- LimTox (text mining for toxicology): The LiMTox system, text-mining approach that tries to extract associations between compounds and a particular toxicological end point from public text sources (PubMed, EPAR, NDA). <http://limtox.bioinfo.cnio.es/>
- BeCalm Biomedical Annotation metaserver: BeCalm is a platform to visualise, predict and benchmark biomedical entity recognition between independent automatic prediction systems. <http://www.becalm.eu/>
- APPRIS: APPRIS is a database that houses annotations of human splice isoforms, as well as the corresponding analysis and visualization tools.
- Rbbt (Ruby bioinformatics toolkit): Rbbt is a collection of tools to solve basic data-analysis problems with focus on biological data. The source code of Rbbt is published on GitHub as open software. <https://github.com/mikisvaz/rbbt>
- MelanomaMine (text mining for melanoma): Mining information related to melanoma in publicly available scientific texts from PubMed. <http://melanomamine.bioinfo.cnio.es/>
- PLAN2L (Plant annotation to literature): A web tool for integrated text mining and literature-derived bio-entity relation extraction, adapted to the needs of researches studying the model organism Arabidopsis thaliana. <http://zope.bioinfo.cnio.es/plan2l/plan2l.html>

Major contributions to the early careers of excellent researchers:

During the last 5 years, 6 former students or postdocs have positions as staff scientists and 7 as bioinformaticians in hospitals of private companies. 7 have professorships or PI positions, namely:

- Vera Pancaldi at the Centre de Recherches en Cancérologie, Toulouse – CRCT,
- Milan Morgenstern The Azrieli Faculty of Medicine, Bar Ilan University,

- Anaïs Baudot, Centre de Génétique Médicale de Marseille,
- Eduardo Andres León, Team leader Institute of Parasitology and Biomedicine "López-Neyra",
- Martin Krallinger. Head of Text Mining Unit at BSC,
- José María Gonzalez Izarzugaza, Associate Prof. Dept of Health Technology. DTU Denmark;
- Antonio Rausell, Director of the Clinical Bioinformatics Lab Institut Imagine & Inserm, Paris.

In 2017 Alfonso Valencia started the “**Bioinfo4Women: Outstanding Young Female Bioinformaticians**” Programme, to promote the exchange of knowledge and experience of outstanding young researchers in science and technology through trainings and mentoring in areas of personalised medicine, bioinformatics and HPC. One of the activities developed within the programme is the organization of the “*Advances in Computational Biology Conference - AdvCompBio 2019*”.

Other merits

- Director of the Spanish Institute for Bioinformatics (Instituto Nacional de Bioinformática, INB) a Genome Spain initiative started in may 2004.
- Coordinator of the Spanish Network for Bioinformatics from 1996 to 2004, from 2004 to 2008 with Dr Roderic Guigó.
- Coordinator of the CSIC network for bioinformatics 2002-2006.
- Coordinator of the section on Theoretical Biology of the Spanish Biochemical Society (SEBBM) 2003-2008.
- Founder and Organizer of the Text Mining Interest Group associated to the ISCB.
- Assessor of the CASP protein structure competition in the 9 and 10 editions.
- Coordinator of the Biosapiens NoE outsourcing efforts, and participated in the development the GNOM science-art project.
- Member of the jury of the Elsevier Grand Challenge, 2008-2009.
- Founder member of the Science and Art “e-biolab” initiative.
- Founder of the spin-off company BioAlma in 2003.

PhD theses supervised

1. Student: Juan Rodríguez Rivas
PhD thesis title: La coevolución en regiones de interacción entre proteínas: estudio y desarrollo de métodos computacionales
Thesis supervisors: Alfonso Valencia, Michael Tress
Universidad Autónoma de Madrid
Date of defense: 14/2/2020
2. Student: Javier Perales Patón
PhD thesis title: Computational approaches for the identification of therapeutic targets for pancreatic ductal adenocarcinoma
Thesis supervisors: Alfonso Valencia, Fátima Al-Shahrour
Universidad Autónoma de Madrid
Date of defense: 13/12/2019
3. Student: Maria Rigau de Llobet
PhD thesis title: Analysis of the Impact of Population Copy Number Variation in Introns
Thesis supervisors: Alfonso Valencia, Daniel Rico
Universidad Autónoma de Madrid
Date of defense: 21/6/2019
4. Student: Eduardo Andres León
PhD thesis title: Análisis computacional de las redes de regulación de la expresión génica en cáncer basadas en microARNs
Thesis supervisors: Ana Rojas, Alfonso Valencia

- Universidad Autónoma de Madrid
Date of defense: 17/07/2017
5. Student: Iakes Ezcurdia Garmendia
PhD thesis title: Proteogenómica y Splicing Alternativo
Thesis supervisors: Michael Tress, Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 08/02/2016
 6. Student: David Alejandro de Juan Sopeña
PhD thesis title: Desarrollo de métodos computacionales basados en co-evolución para la predicción de interacciones entre proteínas
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 14/01/2016
 7. Student: Kristina Ibáñez Garikano
PhD thesis title: Application of machine learning methods to study the inverse comorbidity between cancer and central nervous system disorders
Universidad Complutense de Madrid
Thesis supervisors: Gonzalo Pajares, María Guijarro, Alfonso Valencia
Date of defense: Diciembre 2015
 8. Student: Simone Ecker
PhD thesis title: Epigenetic and transcriptional variability in leuk
Thesis supervisors: Daniel Rico, Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 29/10/2015
 9. Student: Martin Krallinger
PhD thesis title: Development, application and evaluation of text-mining methods for biomedical literature processing: from document categorization to gene ranking.
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 20/04/2015
 10. Student: Raquel Martínez García
PhD thesis title: Análisis transcripcional de xenoinjertos derivados de pacientes con cáncer de páncreas.
Thesis supervisors: Alfonso Valencia, Manuel Hidalgo, Daniel Rico
Universidad Autónoma de Madrid
Date of defense: 20/10/2014
 11. Student: Beatriz García Jiménez
PhD thesis title: Anotación Funcional de Proteínas basada en Representación Relacional en el entorno de biología de sistemas
Thesis supervisors: María Araceli Sanchís de Miguel, Alfonso Valencia
Universidad Carlos III de Madrid
Date of defense: 04/06/2012
 12. Student: José María Gonzalez Izarzugaza
PhD thesis title: Mutations in the protein kinase superfamily
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 25/11/2011
 13. Student: Antonio Rausell de Frías

- PhD thesis title: Estudio computacional de las bases moleculares de la especificidad funcional en familias de proteínas
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 13/06/2011
14. Student: Florian Leitner
PhD thesis title: Online Assessment of Protein Interaction Information Extraction Systems
Thesis supervisor: Alfonso Valencia
Entity: Universidad Autónoma de Madrid Type of entity: University
Date of defense: 01/03/2011
15. Student: Gonzalo López García
PhD thesis title: Anotación y predicción de residuos funcionales basada en información estructural de proteínas
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 16/06/2009
16. Student: Parantu K Shah
PhD thesis title: Data mining from scientific literature
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 21/12/2005
17. Student: Juan Carlos Oliveros Collazos
PhD thesis title: Desarrollo de sistemas informáticos para la gestión y el análisis de resultados de DNA ARRAYS. Aplicaciones al estudio de procesos biológicos en Escherichia Coli y saccharomyces Cerevisiae
Thesis supervisors: Alfonso Valencia, Esteban Montejo de Garcini
Universidad Autónoma de Madrid
Date of defense: 02/07/2004
18. Student: Christian Blaschke
PhD thesis title: Applications of information extraction techniques to molecular biology
Thesis supervisors: Alfonso Valencia, Esteban Montejo de Garcini
Universidad Autónoma de Madrid
Date of defense: 11/02/2002
19. Student: Davien Paul Devos
PhD thesis title: From genome sequence to protein function
Thesis Supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 2002
20. Student: Juan Antonio García Ranea
PhD thesis title: Especificidad Funcional de la Superfamilia Ras: Análisis Bioinformático
Thesis supervisor: Alfonso Valencia
Universidad de Málaga
Date of defense: 2001
21. Student: Florencio Pazos Cabaleiro
PhD thesis title: Interacción entre Proteínas Técnicas Computacionales
Universidad Autónoma de Madrid
Thesis supervisor: Alfonso Valencia
Date of defense: 20/07/2001

22. Student: Osvaldo Ramón Olmea Alonso
PhD thesis title: Mutaciones correlacionadas y su uso en predicción de estructura de proteínas
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 14/06/2001
23. Student: Javier Tamames de la Huerta
PhD thesis title: Desarrollo y aplicaciones de herramientas bioinformáticas para la clasificación funcional de proteínas
Thesis supervisor: Alfonso Valencia
Universidad Autónoma de Madrid
Date of defense: 27/01/1999

Annex 1. Full publication track

1. Rajewsky N, Almouzni G, Gorski SA, Aerts S, Amit S, Bertero MG, Bock C, Bredenoord AL, Cavalli G, Chiocca S, Clevers H, De Strooper B, Eggert A, Ellenberg J, Fernández XM, Figlerowicz M, Gasser SM, Hubner N, Kjemis J, Knoblich JA, Krabbe G, Lichter P, Linnarsson S, Marine JC, Marioni J, Marti-Renom MA, Netea MG, Nickel D, Nollmann M, Novak HR, Parkinson H, Piccolo S, Pinheiro I, Pombo A, Popp C, Reik W, Roman-Roman S, Rosenstiel P, Schultze JL, Stegle O, Tanay A, Testa G, Thanos D, Theis FJ, Torres-Padilla ME, Valencia A, Vallot C, van Oudenaarden A, Vidal M, Voet T, LifeTime Community. LifeTime and improving European healthcare through cell-based interceptive medicine. *Nature*. Septiembre 2020. doi: 10.1038/s41586-020-2715-9.
2. Ostaszewski M, Mazein A, Gillespie ME, Kuperstein I, Niarakis A, Hermjakob H, Pico AR, Willighagen EL, Evelo CT, Hasenauer J, Schreiber F, Dräger A, Demir E, Wolkenhauer O, Furlong LI, Barillot E, Dopazo J, Orta-Resendiz A, Messina F, Valencia A, Funahashi A, Kitano H, Auffray C, Balling R, Schneider R. Author Correction: COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. *Scientific Data* 7(1):247. 17 de julio de 2020. doi: 10.1038/s41597-020-00589-w.
3. Goldman MJ, Zhang J, Fonseca NA, Cortés-Ciriano I, Xiang Q, Craft B, Piñeiro-Yáñez E, O'Connor BD, Bazant W, Barrera E, Muñoz-Pomer A, Petryszak R, Füllgrabe A, Al-Shahrour F, Keays M, Haussler D, Weinstein JN, Huber W, Valencia A, Park PJ, Papatheodorou I, Zhu J, Ferretti V, Vazquez M. A user guide for the online exploration and visualization of PCAWG data. *Nature Communications* 11(1):3400. 7 de julio de 2020. doi: 10.1038/s41467-020-16785-6.
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