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SHORT BIO

I began my academic career as a graduate student at the Universitat Autònoma de Barcelona (UAB), where I started a PhD in Biology in 1992. After a hiatus from academia, I resumed my scientific career in 1999, completing my PhD and transitioning to research as a postdoctoral fellow at the University of Edinburgh. In 2002, I joined the Universitat Pompeu Fabra (UPF) as a researcher under the Ramón y Cajal Program. In 2006, I was appointed ICREA Research Professor at UPF, and in 2010, I became a Professor of Genetics.

Since 2002, I have led a research group in Evolutionary Genomics within the UPF's Department of Medicine and Life Sciences (MELIS). From 2013 to 2016, I served as director of this department. Concurrently, I directed the Population Genomics Node of the Spanish National Institute for Bioinformatics (INB). In 2013, I joined the Center for Genomic Regulation (CRG), where I co-directed the European Genome-phenome Archive (EGA) in collaboration with the European Bioinformatics Institute (EMBL-EBI), furthering international efforts in genomic data sharing and analysis.

In January 2016, I took a second career break from academia to serve as Secretary for Universities and Research for the Catalan Government, a role I held until July 2018. These two and a half years were marked by intense engagement in shaping higher education and research policy. Following a brief sabbatical, I returned to my academic positions and to the EGA in January 2019. Shortly thereafter, I became the Director of the Barcelonaβeta Brain Research Center, the research arm of the Pasqual Maragall Foundation, and in 2020, I also assumed the role of Director of the Pasqual Maragall Foundation.

RESEARCH INTERESTS & GROUP ORGANIZATION

Life as we see it in our planet today has been shaped by many different biological processes during billions of years. These processes leave a signature in our genomes in the form of differences between species, or between individuals of the same species. Interrogating these patterns of genome diversity, we can infer what are the forces that affect living organisms, how and when they act and how do they affect such various things as the differential susceptibility of individuals to complex disease, the process of ageing or biodiversity. All this knowledge empowers us to control our future but, above all, it is fun to obtain and it is just great to help others obtaining it.

My research group operates across three institutions, united by a single vision and leadership. The group was established in 2002 at the Universitat Pompeu Fabra (UPF) following my postdoctoral work in Edinburgh. I currently serve as an ICREA Research Professor at UPF, affiliated with the Department of Medicine and Life Sciences (MELIS) and the Institute of Evolutionary Biology (IBE), a joint institute of the UPF and CSIC. Our research focuses on comparative genomics and the biology of ageing.

Since 2013, and with a hiatus during my public service (2016–2018), our group has expanded to include the Center for Genomic Regulation (CRG), where I co-direct the European Genome-phenome Archive (EGA) in collaboration with EMBL-EBI colleagues. In 2019, the group further extended to the Barcelonaβeta Brain Research Center (BBRC), the research arm of the Pasqual Maragall Foundation, where I currently serve as Director of both institutions. At BBRC, our work is dedicated to understanding the genetics of Alzheimer's disease and other dementias.

Key Words: The Genomic Architecture of Complex Traits, Ageing, Comparative Genomics, Bioinformatics, Human Genome Diversity, Cancer, Multiple Sclerosis, Alzheimer's disease.

PROFESSIONAL EXPERIENCE

Since 01-03-2020	**Director** *Pasqual Maragall Foundation*, Barcelona, Spain
Since 01-03-2019	**Director** *Barcelonaβeta Brain Research Center*, Barcelona, Spain
Since 01-01-2010	**Full Professor (Catedràtic)** Universitat Pompeu Fabra (UPF), Spain
Since 01-11-2006	**ICREA Research Professor** Universitat Pompeu Fabra (UPF), Spain
01-03-2007 / 31/12/2009	**Associate Lecturer (Profesor Asociado)** Universitat Pompeu Fabra (UPF), Spain
01-05-2002 / 31-10-2006	**Scientist Ramón y Cajal Programme** Universitat Pompeu Fabra (UPF), Spain
01-01-1999 / 31-04-2002	**Postdoctoral Researcher** Institute of Cell, Animal and Population Biology. Ashworth Laboratories University of Edinburgh, United Kingdom
01-09-1998 / 31-12-1999	**Associate Lecturer (Profesor Asociado)** Departament de Genètica i de Microbiologia. Universitat Autònoma de Barcelona (UAB), Spain
01-09-1997 / 31-08-1998	**Executive Director.** Fundació Serra i Prat, Spain
01-03-1997 / 21-08-1997	**Associate Lecturer (Profesor Asociado)** Departament de Genètica i de Microbiologia Universitat Autònoma de Barcelona (UAB), Spain
01-01-1997 / 28-02-1997	**Assistant Lecturer (Profesor Ayudante)** Departament de Genètica i de Microbiologia Universitat Autònoma de Barcelona (UAB), Spain
01-01-1993 / 12-31-1996	**Predoctoral Fellow** Departament de Genètica i de Microbiologia Universitat Autònoma de Barcelona (UAB), Spain

EDUCATION

1995-1998	**PhD in Genetics.** Grade: *Cum laude.* Universitat Autònoma de Barcelona (UAB), Spain, Departament de Genètica i de Microbiologia. Supervisor: Alfredo Ruiz.
1992-1994	**MSc in Genetics.** Grade: Excellent. Universitat Autònoma de Barcelona (UAB). Spain. Departament de Genètica i de Microbiologia. Supervisor: Alfredo Ruiz.
1987-1992	**BSc in Biology.** Grade: 3.45 (Over a maximum of 4.00) Universitat Autònoma de Barcelona (UAB). Spain.

AWARDS AND HONORS

2024	Elected Member of the RACAB (Reial Acadèmia de les Ciències i les Arts de Barcelona / Royal Academy of the Sciences and the Arts of Barcelona, see https://www.racab.cat/en/). Nominated and voted by members of the Academy.
2023	Honor Price at the 28th Night of Telecomunications and Informatics Awarded by the Societies of Telecomunication (https://www.telecos.cat/) and Informatics Engineers (https://enginyeriainformatica.cat/). Nominated by members of both societies and awarded by a Jury.
2022	Member of the Consejo Científico Asesor (Scientific Advisory Board) of the **Fundación Gadea Ciencia** (https://gadeaciencia.org/). Invited by the members of the board.
2018	Elected as **Member of Academia Europaea** (https://www.ae-info.org/). Proposed and voted by members of the Academia.
2017	**Col·legiat d'Honor (Honorary Member).** Awarded by the CBC, Col·legi de Biòlegs de Catalunya (Catalan College of Biologists, https://cbiolegs.cat/).
2009	**Acreditació Avançada de Recerca (Advanced Research Accreditation).** Awarded by AQU, Catalonian Government.
2007	**Premio Casa de las Ciencias a la Divulgación (Finalist).** Awarded by Casa de las Ciencias y Ayuntamiento de A Coruña.
2005	**Eleventh European Scientific Divulgation Award (2nd prize)** Awarded by University of Valencia.
2004	**Acreditació de Recerca (Research Accreditation).** Awarded by AQU, Catalonian Government.
2004	**TOYP Prize.** (The Outstanding Young Person) in the category of Biomedical Innovation. Awarded by the Junior Chambers of Catalonia (https://www.jci.cat/).
1993	**F.P.I. Fellowship** Awarded by CIRIT, Catalonian Government.
1992	**Premi Extraordinari de Llicenciatura** (Best Student Price). Awarded by the Universitat Autònoma de Barcelona.

SERVICE AND LEADERSHIP

Positions before 2019 were interrupted for ~3 years during my tenure in Government.

Since January 2025 **Member of the Board of Directors of the Global Alliance for Genomics and Health** (GA4GH)

The Global Alliance for Genomics and Health was formed to help accelerate the potential of genomic medicine to advance human health. It brings together over 400 leading institutions working in healthcare, research, disease advocacy, life science, and information technology. The partners in the Global Alliance are working together to create a common framework of harmonized approaches to enable the responsible, voluntary, and secure sharing of genomic and clinical data.

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Since March 2020 **Director of the Pasqual Maragall Foundation** (FPM)

The FPM (see https://fpmaragall.org/en/) is devoted to the fight against Alzheimer's Disease and other dementias and achieve a future in which ageing is associated with positive experiences. After some years of continuous growth, and particularly over the last five years, it has become the largest foundation against Alzheimer's in Spain.

Since April 2019 **Director of the Barcelona Beta Brain Research Center** (BBRC)

The BBRC (BBRC, see https://www.barcelonabeta.org/) is the research institute of the Pasqual Maragall Foundation. It is devoted to the prevention of Alzheimer's disease and the study of cognitive functions affected in healthy and pathological aging.

Since 2013 **Director of the European Genome-phenome Archive** CRG-EBI (Centre for Genomic Regulation)

The EGA is the world-wide reference service for permanent archiving and sharing of all types of personally identifiable genomic and phenotypic data resulting from biomedical research projects. The data at EGA comes from individuals whose consent agreements authorize data release only to bona fide researchers. Currently the EGA custodies >17 PB of information corresponding to >5,000 studies that involve >2,000,000 human donors and that have been distributed >25,000 data requesters all over the world.

Since 2007 **Director of the Population Genomics Node** of the Instituto Nacional de Bioinformática (INB)

The INB (National Institute for Bioinformatics) is a nation-wide bioinformatics core facility. It was created by the Fundación Genoma España and it is currently maintained by the ISCiii (Instituto de Salud Carlos III) as a Platform to provide bioinformatics services to the Spanish research community.

2016 – July 2018 **Secretary for Universities and Research of the Catalan Government** (Generalitat de Cayalunya)

During my tenure, the Catalan System of Universities and Research was formed by 12 universities (attended by >250,000 students), 43 research centers and 3 large-scale facilities. Overall, the system employed around 27,000 professors and researchers, plus around 20,000 support staff. The government regulates and is the main subsidizer of the system.

2013 – Jan. 2016 **Director of the Department of Experimental and Health Sciences** of the UPF (Currently MELIS, Universitat Pompeu Fabra)

With 80 faculty members and >350 researchers, the DCEXS (which changed name to Medicine and Life Sciences, MELIS) is the most successful Biology department in any Spanish university, playing a fundamental role in the excellent position of the UPF in international rankings.

2013-2017 **Founding member and member of the Steering Committee of the Global Alliance for Genomics and Health** (GA4GH)

See above.

2009- 2016 **Member of the Board** of the SESBE (Sociedad Española de Biología Evolutiva)

The SESBE is the Spanish society for the promotion and diffusion of Evolutionary Biology. Created only in 2003 has now become one of the most active scientific societies in the country.

1989 - 2015 **Member of the Council** of the "Fundació Serra i Prat"
The "Fundació Serra i Prat" is a charity devoted to the education of the underprivileged. During my periods as Treasurer and Director of this organization I had the opportunity to develop my managing skills being on charge of a team of up to 30 people.

2008 - 2013 **Deputy Director** of the IBE (Institut de Biologia Evolutiva)
The IBE is a joint institute between the UPF and the CSIC (*Consejo Nacional de Investigaciones Científicas*) created in 2008 in Barcelona. It is currently growing to become an international reference in the field, with plans to host 40-50 groups doing research in evolution.

2004 - 2013 **Member of the Board** (Consell Directiu) de la SCB (*Societat Catalana de Biologia*) of the *Institut d'Estudis Catalans* under different responsabilities, including treasurer.
The SCB is a filial society belonging to the Institut de Estudis Catalans. Catalonia's National Academy of Sciences.

2004 - 2006 **Bionformatics Coordinator** of the CeGen (Centro Nacional de Genotipado)
The CeGen (National Genotyping Centre) is a nation-wide genotyping core facility with a similar history than INB. Its goal is to provide genotyping services to the Spanish research community.

1997 - 1998 **Executive Director** of "Fundació Serra i Prat"
See above.

1992 - 1996 **Treasurer** of "Fundació Serra i Prat"
See above.

GRANTS AS PRINCIPAL INVESTIGATOR

Currently Active Grants

2025-2028 EASIGEN-DS. Design Study For A European Infrastructure On Advanced Genomics Technologies. PI: Arcadi Navarro. Within the Call CE HORIZON-INFRA-2024-DEV-01 (grant #101187908). Funded with €83,344 out of a total of €2,999,266.00 (Coordinator: Ivo Gut).

2025-2028 CANDLE. National CAncer data Node DeveLopErs. A CSA designed to support dialogue towards the development of national cancer data nodes. PI: Arcadi Navarro. Within the Call CE HORIZON-MISS-2024-CANCER-01-02 (grant #101214368). Funded with €87,500 out of a total of €2,999,547.50 EUR (Coordinator: Jan-Willem Boiten).

2025-2026 IMPaCT-Data 2. Data Infrastructure within the “Infraestructura de Medicina de Precisión asociada a la Ciencia y la Tecnología” (Exp. ISCIII-AES-2024/003581). PI: Arcadi Navarro. Funded with €222,282 out of a total budget of €2,982,045. (Coordinators: Alfonso Valencia & Ximo Dopazo)

2023-2028 EBV-MS. Targeting Epstein-Barr virus Infection for Treatment and Prevention of Multiple Sclerosis. The project studies the relationship of the Epstein-Barr virus with Multiple Sclerosis using a broad multi-omic perspective, including clinical trials. PI: Arcadi Navarro. Within the Call CE HORIZON-HLTH-2023-DISEASE-03 (grant #101136991). Funded with €943,272.50 out of a total of €6,999,194.50 (Coordinator: Øivind Torkildsen).

2023-2027 WISDOM. European Multiple Sclerosis Platform. The project aims at Better integration and use of health-related real-world and research data, including genomics, for improved clinical outcomes focusing on the integration of healthcare and research data and models in chronic immune-mediated diseases, particularly Multiple Sclerosis. PI: Arcadi Navarro. Within the Call CE HORIZON-HLTH-2023-TOOL-05-04 (grant #101137154). Funded with €335,098.75 out of a total of € 9,598,516.50 (Coordinator: Janna Saarela).

2023-2026 CaixaResearch Biomedical Data Hub. The core Spanish grant to run the EGA. PI: Arcadi Navarro. Within the La Caixa Foundation's scheme of renewable "Singular Projects". Funded with €376,000/year (€1,504,000 total for the current period, awarded >€2,000,000 in the last decade).

2023-2027 COMMUTE. COMmorbidity Mechanisms UTilized in HealthcarE. The project focuses on studying the relationship between COVID and neurodegeneration and testing and validating some of the mechanistic hypotheses underlying this link; about 50% of the work is on data and AI, whilst the other 50% is on biomarkers, cellular assays and organoid test systems. PI: Arcadi Navarro. Within the Call CE HORIZON-HLTH-2023-DISEASE-03-07 (grant #101136957). Funded with €495,000 out of a total of €6,250,344.50 (Coordinator: Martin Hofmann-Apitius).

2022-2025 EOSC4Cancer. European Open Science Cloud for Cancer. EOSC4Cancer builds on existing projects, research outcomes and established community solutions to create the federated FAIR data, analysis and services infrastructure needed for European Cancer research programmes. PI: Arcadi Navarro. Within the Call CE HORIZON-INFRA-2021-EOSC-01-06 (grant #101058427). Funded with €255,500 out of a total of €7,814,549 (Coordinator: Alfonso Valencia).

2022-2025 Integrative genic analysis of longevity in humans, primates, and mammals: from amino acid changes to epistatic interactions (GenAge). PI: Arcadi Navarro. Agencia Estatal de Investigación - AEI. Spanish Government (PID2021-127792NB-I00). Funded with €200,000.

2022-2025 IMPaCT-TD2 (IMPACT Type-2 Diabetes). Research Project within the "Infraestructura de Medicina de Precisión asociada a la Ciencia y la Tecnología". PI: Arcadi Navarro. Funded with €250,750 out of a total budget of €1,381,600. (Coordinator: Jorge Ferrer)

2022-2026 GDI. Genome Data Infrastructure. A large-scale project to enable a federated European data infrastucture for genomic data. PI: Arcadi Navarro. Within the Call CE DIGITAL-2021-CLOUD-AI-01-FEI-DS-GENOMICS (grant #101081813). Funded with €907,000 out of a total of €40,000,000 (Coordinator: Serena Scollen).

***Previous Grants* (Selection)**

2021-2024 IMPaCT-Data. Data Infrastructure within the "Infraestructura de Medicina de Precisión asociada a la Ciencia y la Tecnología" (Exp. IMP/00019). PI: Arcadi Navarro. Funded with €687,181 out of a total budget of €4,549,380. (Coordinator: Alfonso Valencia)

2021-2024 Neurodegeneration triggered by SARS-CoV-2: brain organoids as an analytical and predictive model. PI: Arcadi Navarro. Coordinator: Javier Martínez-Picado. Within the Marató 2020 Covid-19 (#202120-30-31-32). Funded with €48,750 out of a total budget of €399,750

2020-2024 A European Cancer Image Platform Linked to Biological and Health Data for Next-Generation Artificial Intelligence and Precision Medicine in Oncology (EUCANIMAGE.). PI: Arcadi Navarro. Within the Call CE H2020 H2020-SC1-FA-DTS-2019-1 (grant # 952103). Funded with €476,500 out of a total of €9,994,358.50 (Coordinator: Karim Lekadir).

2020-2023 GenoMed4ALL. A consortium built to empower personalized medicine in the field of haematological diseases through the use of AI and the pooling of genomic and clinical data. PI: Arcadi Navarro. Within the Call CE H2020-SC1-FA-DTS-2018-2020 (grant #101017549). Funded with €615,125 out of a total of ~€15,041,200 (Coordinator: Federico Álvarez).

2019-2023 EJP-RD. EUROPEAN JOINT PROGRAMME ON RARE DISEASES. A European consortium built to create a comprehensive, sustainable ecosystem allowing a virtuous circle between research, care, and medical innovation. PI: Arcadi Navarro. Within the Call CE H2020-SC1-BHC-2018-2020 (grant # 210488440). Funded with €206,000 out of a total of ~€9,999,063.75

2021-2023. HealthyCloud. This consortium will contribute a Strategic Agenda towards the European Health Research and Innovation Cloud. The project will work in collaboration with a broad range of stakeholders to ensure that all voices are included and that the results are technically and ethically sound. (Coordinator: Daria Julkowvska).

2019-2022 Valorización de EGA para la Industria y la Sociedad (VEIS). (PI): Arcadi Navarro. Direcció General de Recerca. Catalan Government (001-P-001647). Funded with €210,000 out of €2M (Coordinator: Alfonso Valencia)

2019-2022 The evolutionary and mechanistic causes of senescence and its related phenotypes in vertebrates: a comparative genomics approach. (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT. Spanish Government (PGC2018-101927-B-I00). Funded with €190.575.

2007-2020 Population Genomics and Genome Diversity Node (GNV8) in the Spanish National Institute for Bioinformatics or Plataforma de Bioinformática dentro de las Plataformas de Apoyo a la Investigación en Ciencias y Tecnologías de la Salud. Funded by Fundación Genoma España (2007-2010) and Institutos de Salud Carlos III (2011-2020). Main Researcher (PI): Arcadi Navarro. Funded with aprox €140,000 per year.

2016-2019 Integration and analysis of heterogeneous big data for precision medicine and suggested treatments for different types of patients (IASIS). (Applying PI): Arcadi Navarro. Within the H2020-SC1-2016-CNECT. 727658. Funded with ~€146,000 out of a total of €4,2M. (Coordinator: Anastasia Krithara).

2016-2018 Why and how we age? Molecular Evolution in Senescence in humans and other primates. (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT. Spanish Government (BFU2015-68649-P). Funded with €189,728.

2015-2018 Fast-track ELIXIR implementation and drive early user exploitation across the life-sciences (EXCELLERATE). (PI): Arcadi Navarro. Within the INFRADEV-3-2015-676559. Funded with ~€300,000 out of a total of €19M. (Coordinator: Niklas Bloomberg)

2016-2018 Creating medically-driven integrative bioinformatics applications focused on oncology, CNS disorders and their comorbidities (MedBioinformatics). (PI): Arcadi Navarro. Within the H2020-PHC-32-2013 Call (grant # 634143-2). Funded with €274,550 out of a total of €3,463,481. (Coordinator: Ferran Sanz)

2014-2017 Developing an European American NGS Network (DEANN). Main Researcher (PI): Arcadi Navarro. Within the FP7-2013-People-IRSES (International Research Staff Exchange Scheme) Marie-Curie Action (PIRSES-GA-2013-612583). Funded with €218,000 out of a total of €928,200. (Coordinator: Ana Conesa)

2013-2017 Group within the "Red Española de Esclerosis Múltiple" (Spanish Research Network in Multiple Sclerosis). Main Researcher (PI): Arcadi Navarro. Within the RETICS (Redes Españolas de Investigación Cooperativa en Salud) on Multiple

Sclerosis (RD12/0032/0011). (Funded with €45,712 per year. Coordinator: Pablo Villoslada)

2014-2017 "Grup de Recerca Consolidat" in Comparative and Computational Genomics. Funded by AGAUR (SGR2014-1311). Main Researcher (PI): Arcadi Navarro. Funded with €55,000.

2013-2015 *Toward a complete view of adaptation in complete genomes. A bottom-up approach to selection acting upon multiple targets* (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT. Spanish Government (BFU2012-38236). Funded with €312,000.

2008-2012 *Exploring the behavioral genetics of Trade and Cooperation.* Main Researcher (PI): Arcadi Navarro. Funded with €325,000 within the Cooperative Research Project *The Social and Mental Dynamics of Cooperation* (SOCCOP). Coordinator: Herbert Gintis, funded with a total of €1,200,000. European Science Foundation (ESF). Eurocores Programme on *The Evolution of Cooperation and Trade* (TECT).

2010-2012 *Identifying Evolutionary Novelties and Adaptation in Duplicated Regions of the Genomes of Primates.* Main Researcher (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT (BFU2009-13409-C02-02). Spanish Government. Funded with €264,000. Within the Coordinate Project *Toward a complete view of adaptation in complete genomes. Segmental duplications and systems biology.* (Coordinator: Hernán Dopazo)

2009-2012 Group within the "Red Española de Esclerosis Múltiple" (Spanish Research Network in Multiple Sclerosis). Main Researcher (PI): Arcadi Navarro. Funded with €30,188 per year within the RETICS (Redes Españolas de Investigación Cooperativa en Salud) on Multiple Sclerosis. (Coordinator: Pablo Villoslada)

2010-2011 *Asociación entre los polimorfismos de los genes SLC6A4, DRD2 y COMT y la regulación emocional y el control cognoscitivo en la depresión infantil y juvenil. Un estudio transverso secuencial.* Main Researcher (PI): Arcadi Navarro. Funded with €40,000 by CSIC-CRUSA (2009CR0028)

2007-2010 IdChPrimateSDs—Identification and characterization of primate-specific duplications and an assessment of intra-specific patterns of selection and copy-number variation. Main Researcher (PI): Arcadi Navarro. Funded with €233,921 by the EU (FP7-PEOPLE-2007-4-1-IOF)

2007-2009 *Distribución Genómica de las Presiones Selectivas en Poblaciones humanas. Regiones no codificantes y Genes de relevancia Biomédica* Main Researcher (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT (BFU2006-15413-C02-01). Spanish Government. Funded with €132,000. *Within the Coordinate Project Distribución de la Sección Natural Ancestral y Reciente en el Genoma Humano. Patrones Evolutivos e Implicaciones Biomédicas*. (Coordinator: Arcadi Navarro)

2007-2010 *Desarrollo de un kit diagnóstico para las enfermedades inflamatorias mediadas por mecanismos inmunes*. Proyecto Singular Convocatoria 2006 IMID-Kit. Analysis Group. Main Researcher (PI): Arcadi Navarro/Jaume Bertranpetit. Funded with €600,000 within a €6,000,000 Project Coordinated by Sara Marsal. Convocatoria 2006 del Ministerio de Ciencia y Tecnología para Proyectos Singulares de caracter Estratégico (PSE-010000-2006-6).

2004-2007 *Segmental duplications in neurodevelopmental, neurological and behavioural disorders.* Evolutionary subproject. Main Researcher (PI): Arcadi Navarro. Project Coordinator: Xavier Estivill. Funded by Genome Canada-Fundación

Genoma España Joint R+D+I Projects in Human Health (JLI/038). Funded with €300,000 within a €2,000,000 project.

2004-2006 *Evolución del Genoma Humano: Interacciones entre los niveles cromosómico y molecular*. Main Researcher (PI): Arcadi Navarro. Dirección General de Investigación Científica y Técnica - DGICYT (BOS2003-08070). Spanish Government. Funded with €90,000.

2004-2006 Bioinformatics Project within the "Centro Nacional de Genotipación" Funded by Fundación Genoma España. Main Researcher (PI): Arcadi Navarro. Funded with €200,000.

COLLABORATION IN RESEARCH GRANTS (Selection)

2011-2014 *Genómica y transcriptómica de las rutas de detoxificación en Drosophila.* Main Researcher (PI): Arcadi Navarro. Funded with €32,000 out of a total of €90,000 by Ministerio de Ciencia e Innovación. Proyectos de Cooperación Conjuntos España Argentina (PIB2010AR-00266) Coordinator: Hernán Dopazo.

2007-2009 CIBER en Epidemiología y Salud Pública (Ciberesp). Ministerio de Sanidad y Consumo. Main Researcher (PI): Jaume Bertranpetit. CIBER Director: J. M. Antó.

Since 2002 Member of the "Grup de Recerca Consolidat" in Evolutionary Biology. Coordinator: J. Bertranpetit. DURSI (2009SGR1101)

1999-2002 *Análisis de la diversidad genética en poblaciones humanas y en otros primates*" 1999-2002 Entidad Financiadora: Ministerio de Educación y Cultura (PB98-1064) Main Researcher (PI): Jaume Bertranpetit.

2001-2002 *Genealogies and the process of speciation*. Main Researcher (PI): N. H. Barton and J. Hey. NERC (GR3/11635)

1999-2002. *The coalescent process in genetically structured populations: application to measurement of natural selection from DNA sequence variation.* Main Researcher (PI): N. H. Barton and B. Charlesworth. BBSRC (R34365)

1999-2002 Papel de la recombinación en la generación de la diversidad cromosómica y nucleotídica natural [*The role of recombination in the generation of chromosomal and DNA sequence variability*]. Project Coordinator: Alfredo Ruiz. DGICYT (PB98-0900-C02) Spanish Government.

1996-1999 Origen y evolución molecular de las inversiones cromosómicas de *Drosophila buzzatii*" [*Origin and evolution of chromosomal inversions in Drosophila buzzatii*]. Main Researcher (PI): A. Ruiz. Dirección General de Investigación Científica y Técnica - DGICYT (PB95-0607) Spanish Government.

1994-1996 Significado Adaptativo del Polimorfismo Cromosómico" [*Adaptive meaning of chromosomal polymorphisms*]. Main Researcher (PI): A. Ruiz. - DGICYT (PB93-0844) Spanish Government.

TEACHING

My current teaching duties add up to over 30 hours per year in national and international courses. On a yearly basis, I coordinate two courses in the UPF's masters.

Universitat Pompeu Fabra

Since 2003 Professor in the MSc *Bioinformatics for Health Sciences.* Coordinator of two subjects on "Biomedical Data Analysis" and "Genome-Phenome Analysis for Complex Disease".

(Until 2013 approx. 90 hrs/year. Currently, approx. 30 hrs/year)

Since 2010 — Professor in the MSc *Biomedical Research.*
Course on “Genomes and Systems”.
(Approx. 6 hrs/year)

2008 -2015 — Professor in the BSc *Biological Sciences*.
Course on “Evolution”.
(Approx. 30hrs/year)

2003 - 2009 — Professor in the PhD on *Life Sciences*
Coordinator of the course on “Genomes and Systems”.
(Approx. 40 hrs/year)

2003 - 2008 — Professor in the BSc *Biological Sciences*
Coordinator of the Evolution course.
(Approx. 30 hrs/year)

Other Teaching

Since 2003 — Organization and participation in an average of two training courses per year in the contexts of the INB, ELIXIR and the GA4GH.
(Approx., 10 hours per year)
Several Institutions

2006-2015 — Professor in the PhD *Bioinformatics* (9 hrs/yr)
Course on *Análisis bioinformático de secuencias y expresión de genes y genomas* [*Bioinfomatics sequence analysis and gene expression*]
Universitat Complutense de Madrid

2009-2015 — Professor in the Gulbenkian Institute's Training Programme in Bioinformatics.
Coordinator of the Course on *The Genetic Architecture of Complex traits*
Gulbenkian Institute (Oeiras, Portugal)
(Currently, 18 hrs/year)

1999 -2013 — Professor in the Postgraduate *Course Monitorización de Ensayos Clínicos* [*Clinical Trials Monitoring*] (3hrs/year)
Universitat de Barcelona

1999 - 2000 — Lecturer in the "MSc on Quantitative Genetics and Genome Analysis" (4 hrs/year)
University of Edinburgh

1997-1998 — Several periods as Assistant Lecturer (Profesor Ayudante) and Associate lecturer (Associate Lecturer) of Genetics. (100 hrs/year)
Universitat Autònoma de Barcelona

RESEARCH SUPERVISION

Postdoctoral Researchers

Since 01-01-22 — Fabio Bartieri. Genome-phenome analysis upon phylogenies.

Since 01-01-21 — Claudia Vasallo. Gene-Sex Interactions in Complex Disease and Anthropometric Traits.

01-09-21/31-12-25 — Natàlia Vilor-Tejedor. Polygenic Risk Scores for Alzheimer’s Disease and related phenotypes.

01-05-21/31-12-24	Laura Garcia-González. Studying the relationship of COVID-19 with Alzheimer's Disease using human personalized brain organoids.
01-01-22/21-07-23	Imán Sadeghi. Polygenic Risk Scores for Alzheimer's Disease and related phenotypes.
01-01-18/31-08-21	Marco Telford. *EBV in human aging and disease.*
01-01-20/31-07-21	Carlos Morcillo. *Analysis of age-related pleiotropies in human traits and complex diseases.*
01-08-14/21-12-19	Gerard Muntané. *The comparative genomics of senescence.*
01-02-15/31-07-17	Josephine Daub. *The action of natural selection upon the non-coding content of recently duplicated genes.*
01-10-13/31-12-15	David A. Hughes. *Detecting the action of multiple-targeted positive selection in the human lineage.*
01-05-10/20-06-15	Gabriel Santpere Baró. *Full EBV viromes in MS patients and Controls.*
01-05-06/01-02-15	Rui Faria. *Functional implications of the genomic distribution of the molecular footprint of ancestral and recent natural selection in populations*.
01-01-12/31-07-14	Carlos Morcillo. *Exhaustive haplotype analysis of GWAS data.*
01-04-09/31-05-13	Natalia Petit. *Detecting the action of multiple-targeted positive selection in the human lineage.*
01-06-04/30-06-10	Elodie Gazave. *Segmental duplications in neurodevelopmental, neurological and behavioural disorders*
01-08-06/30-06-10	Fleur Darre. *The world-wide distribution of the EBV human virom and its relationship with Multiple Sclerosis.*
01-04-08/30-11-10	Tomàs Marquès-Bonet. *Identification and characterization of primate-specific duplications and an assessment of intra-specific patterns of selection and copy-number variation.*
01-10-08 /15-09-09	Domènec Farré Marimón. *Assesment of aligment methods for non-coding sequences.*

PhD Students

Since 01-01-25	Sara Gordillo. A Whole-Virome Association Study (VWAS) between Multiple Sclerosis and the Epstein-Barr Virus.
Since 01-01-25	Mohammad Mahdi. Analysis of epistatic interactions upon phylogenetic data.
Since 01-09-24	Miguel Ramón-Alonso. Studyes of the genomics of cancer in primates.
Since 01-09-24	Anna Basquet. Gene-Sex Interactions between complex disease and anthropometric traits.
Since 01-01-22	Eva Brigos Barril. On the relationship of human longevity and fetility with complez diseases.

Since 01-01-22	Blanca Rodriguez Fernández. AD Genetics.
Since 01-01-22	Patricia Genius. AD Genetics.
Since 01-09-19	Alejandro Valenzuela. *The comparative regulatory genomics of senescence.*
01-10-18/18-05/23	Jordi Rambla. *Sharing data to accelerate science. The example of the European Genome-phenome Archive.*
01-10-18/01-07-22	Xavier Farré. *From populations to species: Unravelling the unknowns of ageing with two complementary approaches.*
01-10-14/28-01-20	Txema Heredia. *The good, the bad and the hairy. Comparative genomics of great apes from the point of view of human cancer.*
01-09-14/18-01-19	Marina Brasó. *Evolution and genomic impact of duplications.*
01-10-13/12-01-18	Rajendra Mandage. *Understanding interactions between EBV and human genomic variation.*
01-04-13/19-12-17	Marco Telford. *Genetic diversity and geographic patterns of Human herpesvirus 4 and 6.*
01-09-12/24-01-17	Juan Antonio Rodríguez Pérez. *Testing two evolutionary theories of ageing by using public genome-wide data.*
01-10-10/22-11-16	Diego Hartasanchez. *Modelling and simulation of interlocus gene conversion.*
01-01-06/12-11-12	Urko Martínez-Marigorta. *Genetic architecture of complex disease in humans: a cross-population exploration.*
01-09-05/12-01-12	Olga Fernando. *Intron Evolution in Primates.*
01-09-05/19-12-11	Carlos Morcillo. *Bioinformatics applications for the analysis of high-thoroughput SNP data.*
01-04-06/11-11-11	Belen Lorente. *The action of natural selection in recently duplicated genes.*
01-09-02/31-01-07	Tomàs Marquès-Bonet. *On the association between chromosomal rearrangements and genic evolution in mammals.*

Undergraduate Students

01-09-22/31-07-23	Sara Polo. Pelotropy-aware Polygenic Risk Scores.
01-01-21/31-12-21	Eva Brigos Barril. Pleiotropies between human fertility and complex disease.
01-12-14/20-02-15	Mauricio Moldes Quaresma. *Analysis of publication metadata related to the studies contained in the European Genome-phenome Archive.*
01-06-13/31-08-14	Marina Brasó Vives. *Simulating molecular evolution within SDs.*

01-10-11/30-06-12	Yorgos Athanasidis. *An evaluation of population stratification and admixture in Australian breast cancer patients using high-throughput SNP data.*
01-10-10/30-06-11	Oriol Valles. *The neutral theory of molecular evolution within Segmental Duplication: simulating molecular evolution within SDs.*
01-07- 07/30-09-07	Estel Aparicio. *Detecting Selection in human ORFs.*
01-01-06 /31-12-06	Enric Gutiérrez. *The molecular evolution and phylogenomics of p48:* the action of natural selection.
01-01-05/31-08-05	Jesús Sanchez Ruiz. *On the association between chromosomal rearrangements and genic evolution in primates*

Technicians

Over the last 20 years I have supervised the work of >50 technicians in my various teams. Currently, my multi-institutional team, particularly the team that manages the European Genome-phenome Archive, is composed by 24 technicians, with 5 of them holding PhDs.

PUBLICATIONS

I have authored a total of 243 publications (185 per-reviewed papers, 23 books or book chapters and 35 general-public articles). Regarding the peer-reviewed papers, my current h-index is 65, with an i10-index of 164. May be papers in high impact journals (Nature, Science, PNAS, Nature Genetics, Nature Ecology and Evolution, Genome Research, Trends in Genetics or Trends in Ecology and Evolution) can be considered of note, but I am particularly proud of some of my publications in journals such as Genetics, Evolution, or Bioinformatics.

When lists of authors are long, I include the reference and the authors from my group.

In peer-reviewed journals

1. d'Altri, T., et al. (Including A. Navarro and 8 members of my team) (2025) The Federated European Genome-phenome Archive as a global network for sharing human genomics data. **Nature Genetics** (In the Press)
2. de Dios Martinez, T., C. Fontsere, P. Renom, J. Stiller, L. Llovera, M. Uliano-Silva, A. Sánchez-Gracia, C. Wright, E. Lizano, B. Caballero, A. Navarro, S. Civit, R. K. Robbins, M. Blaxter, T. Marquès, R. Vila, C. Lalueza-Fox (2024). Whole genomes from the extinct Xerces Blue butterfly can help identify declining insect species. **eLife** 12: RP87928 (doi: 10.7554/eLife.87928.3)
3. Rodríguez-Fernández, B., G. Sánchez-Benavides, P. Genius, C. Minguillon, K. Fauria, I. De Vivo, A. Navarro, J.L. Molinuevo, J. D. Gispert, A. Sala-Vila, N. Vilor-Tejedor, M. Crous-Bou (2024). Association between telomere length and cognitive function among cognitively unimpaired individuals at risk of Alzheimer's disease. **Neurobiology of Aging** 141:140-150 (doi: 10.1016/j.neurobiolaging.2024.05.015)
4. Rui H., J. Al-Tamimi, G. Sánchez-Benavides, G. Montaña-Valverde, J.D. Gispert, O. Grau-Rivera, M. Suárez-Calvet, C. Minguillon, K. Fauria, A. Navarro and W. Hinzen (2024). Atypical cortical hierarchy in Aβ-positive older adults and its reflection in spontaneous speech. **Brain Research** 1830: 148806 (doi: 10.1016/j.brainres.2024.148806)
5. Vilor-Tejedor N, Genius P, Rodríguez-Fernández B, et al. (2024) Genetic characterization of the ALFA study: Uncovering genetic profiles in the Alzheimer's continuum. **Alzheimer's Dement**. 20: 1703–1715. (doi: 10.1002/alz.13537)
6. Fromont, L. A., M. Moldes, M. Baudis, A. J. Brookes, A. Navarro, J. Rambla (2024) Twelve quick tips for deploying a Beacon. **PLOS Computational Biology** 20 (3): e1011817

7. Kuderma L.F.K. *et al*. (including A. Valenzuela, D. Juan, and A. Navarro) (2024) Identification of constrained sequence elements across 243 primate genomes. **Nature** 625: **735–742** (doi: 10.1038/s41586-023-06798-8)
8. Barteri, F., A. Valenzuela, X. Farré, D. de Juan, G. Muntané, B. Esteve-Altava, A. Navarro* (2023) CAAStools: a toolbox to identify and test Convergent Amino Acid Substitutions. **Bioinformatics** 39(10): btad623 (doi: 10.1093/bioinformatics/btad623)
9. L. Garcia-Gonzalez, A. Marti-Sarrias, M.C. Puertas, A. Bayon-Gil, P. Resa-Infante, J. Martinez-Picado, A. Navarro, and S. Acosta (2023) Understanding the neurological implications of long COVID using brain organoids. **Disease Models & Mechanisms** 16(7): dmm050049 (doi: 10.1242/dmm.050049)
10. Gao, H. *et al*. (including A. Valenzuela, D. Juan, and A. Navarro) (2023) The landscape of tolerated genetic variation in humans and primates. **Science** 380: eabn8153. (doi: 10.1126/science.abn8197)
11. Kuderma L.F.K. *et al*. (including A. Valenzuela, D. Juan, and A. Navarro) (2023) A global catalog of whole-genome diversity from 233 primate species. **Science** 380:906-913 (doi:10.1126/science.abn7829)
12. Christmas, M. J. *et al*. (including A. Valenzuela and A. Navarro) (2023) Evolutionary constraint and innovation across hundreds of placental mammals. **Science** eabn3943 (doi:10.1126/science.abn3943)
13. Muntané, G., J. Vázquez-Bourgon, E. Sada, L. Martorell, S. Papiol, E. Bosch, A. Navarro, B. Crespo-Facorro, E. Vilella (2023) Polygenic risk scores enhance prediction of body mass index increase in individuals with a first episode of psychosis. **European Psychiatry** 66(1):e28. (doi: 10.1192/j.eurpsy.2023.9)
14. Rodríguez-Fernández, B., Suárez-Calvet, M., Arenaza-Urquijo, E.M., Milà-Alomà, M., Minguillón, C., Molinuevo, J.L., Suridjan, I., Kollmorgen, G., Wild, N., Navarro, A., Fauria, K., DeVivo, I., Zetterberg, H., Blennow, K., Gispert, J.D., Sala-Vila, A., Vilor-Tejedor, N. and Crous-Bou, M., for the ALFA study (2022), Sex differences in CSF biomarkers profile of accelerated biological aging individuals at risk of Alzheimer's disease. **Alzheimer's and Dementia** 18: e063082. (doi: 10.1002/alz.063082)
15. Rodríguez-Fernández, B., J.D. Gispert, R. Guigo, A. Navarro, N. Vilor-Tejedor, M. Crous-Bou. (2022) Genetically predicted Telomere Length and its relationship with Neurodegenerative Diseases and Life Expectancy. **Computational and Structural Biotechnology Journal** 20:4251-4256 (doi: 10.1016/j.csbj.2022.08.006)
16. Rodríguez-Fernández, B., N, Vilor-Tejedor, E. M Arenaza-Urquijo, G. Sánchez-Benavides, M. Suárez-Calvet, G. Operto, C. Minguillón, K. Fauria, G. Kollmorgen, I. Suridjan, M. Castro de Moura, D. Piñeyro, M. Esteller, K. Blennow, H. Zetterberg, I. De Vivo, J.L. Molinuevo, A. Navarro, J.D. Gispert, A. Sala-Vila, M. Crous-Bou. (2022). Genetically predicted telomere length and Alzheimer's disease endophenotypes: a Mendelian randomization study. **Alzheimer's Research & Therapy** 14:167 (doi: 10.1186/s13195-022-01101-9)
17. Akinci, M., C. Peña-Gómez, G. Operto, S. Fuentes-Julian, C. Deulofeu, G. Sánchez-Benavides, M. Milà-Alomà, O. Grau-Rivera, N. Gramunt, A. Navarro, C. Minguillón, K. Fauria, I. Suridjan, G. Kollmorgen, A. Bayfield, K. Blennow, H. Zetterberg, J. L. Molinuevo, M. Suárez-Calvet, J.D. Gispert, E. M. Arenaza-Urquijo, for the ALFA Study (2022) Prepandemic Alzheimer Disease Biomarkers and Anxious-Depressive Symptoms During the COVID-19 Confinement in Cognitively Unimpaired Adults. **Neurology** 99(14): e1486-e1498 (doi: 10.1212/WNL.0000000000200948)
18. Joshi, R.S., M. Rigau, C. A. García-Prieto, M. Castro de Moura, D. Piñeyro, S. Moran, V. Davalos, P. Carrión, M. Ferrando-Bernal, I. Olalde, C. Lalueza-Fox, A. Navarro, C. Fernández-Tena, D. Aspandi, F. M. Sukno, X. Binefa, A. Valencia, M. Esteller. (2022) Look-alike humans identified by facial recognition algorithms show genetic similarities. **Cell Reports** 40(8):111257 (doi: 10.1016/j.celrep.2022.111257)

19. Palmer, W. H., M. Telford, A. Navarro, G. Santpere, P. J. Norman. (2022) Human herpesvirus diversity is altered in HLA class I binding peptides. **Proceedings of the National Academy of Sciences** 119(18) e2123248119 (doi: 10.1073/pnas.2123248119)
20. Fernández-Orth, D., M. Rueda, B. Singh, M. Moldes, A. Jene, M. Ferri, C. Vasallo, L. A. Fromont, A. Navarro, J. Rambla. (2022) A quality control portal for sequencing data deposited at the European genome–phenome archive. **Briefings in Bioinformatics** e-pub 27 Abril 2022 (doi: 10.1093/bib/bbac136)
21. Rambla, J., M. Baudis, R. Ariosa, T. Beck, L. A. Fromont, A. Navarro, R. Paloots, M. Rueda, G. Saunders, B. Singh, J. D. Spalding, J. Törnroos, C. Vasallo, C. D. Veal, A. J. Brookes. (2022) Beacon v2 and Beacon Networks: a "lingua franca" for data discovery in biomedical genomics, and beyond. **Human Mutation** e-pub 17 March 2022 (doi:10.1002/humu.24369)
22. Freeberg M.A., L. A Fromont, T. D'Altri, A. Foix-Romero, J. Izquierdo-Ciges, A. Jene, G. Kerry, M. Moldes, R. Ariosa, S. Bahena, D. Barrowdale, M. Casado-Barbero, D. Fernandez-Orth, C. Garcia-Linares, E. Garcia-Rios, F. Haziza, B. Juhasz, O. Martinez-Llobet, G. Milla, A. Mohan, M. Rueda, A. Sankar, D. Shaju, A. Shimpi, B. Singh, Co. Thomas, S. de la Torre, U. Uyan, C. Vasallo, P. Flicek, R. Guigo, A. Navarro, H. Parkinson, T. Keane, J. Rambla, (2022) The European Genome-phenome Archive in 2021, **Nucleic Acids Research** 60(D1): D980–D987 (doi: 10.1093/nar/gkab1059)
23. A. Ahmadi, J. D. Gispert, A. Navarro, N, Vilor-Tejedor, I. Sadeghi. (2021). Single-Cell Transcriptional Changes in Neurodegenerative Diseases. **Neuroscience** 479: 192-205 (doi: 10.1016/j.neuroscience.2021.10.025)
24. Fontsere, C., Frandsen, P., Hernandez-Rodriguez, J., Niemann, J., Scharff-Olsen, C.H., Vallet, D., Le Gouar, P., Menard, N., Navarro, A., Siegismund, H. R., Hvilsom, C., Gilbert, M. T. P., Kuhlwilm, M., Hughes, D., Marques-Bonet, T. (2021) The genetic impact of an Ebola outbreak on a wild gorilla population. **BMC Genomics** 22:(1) 735 (doi: 10.1186/s12864-021-08025-y)
25. Rhem, H. L. *et al*. (including J. Rambla, L.A. Fromont, A. Jané, M. Rueda, E. Palumbo and A. Navarro). (2021). GA4GH: International policies and standards for data sharing across genomic research and healthcare. **Cell Genomics** 1:100029 (doi: /10.1016/j.xgen.2021.100029)
26. Thorogood, A., H. L. Rehm, P. Goodhand, A.J.H. Page, Y. Joly, M. Baudis, J. Rambla, A. Navarro, T.H. Nyronen, M. Linden, E. S. Dove, M. Fiume, M. Brudno, M.S. Cline, E. Birney, International federation of genomic medicine databases using GA4GH standards. 2021. **Cell Genomics** 1(2): 100032 (doi: 10.1016/j.xgen.2021.100032)
27. Telford, M., D.A. Hughes, D. Juan, M. Stoneking, A. Navarro*, G. Santpere* (2021) Expanding the Geographic Characterisation of Epstein-Barr Virus Variation through Gene-Based Approaches. **Microorganisms** 8(11): 1686 (doi: 10.3390/microorganisms8111686)
28. Farré, X., R. Molina, F. Barteri, P. R H J Timmers, P. K Joshi, B. Oliva, S. Acosta, B. Esteve-Altava, A. Navarro*, G. Muntané*. (2021). Comparative Analysis of Mammal Genomes Unveils Key Genomic Variability for Human Life Span. **Molecular Biology and Evolution** 38: 4948–4961 (doi: 10.1093/molbev/msab219).
29. Muntané, G, M. Chillida, S. Aranda, A. Navarro, E. Vilella. (2021). Coexpression of the discoidin domain receptor 1 gene with oligodendrocyte-related and schizophrenia risk genes in the developing and adult human brain. **Brain and Behaviour** 11(8) e2309 (doi: 10.1002/brb3.2309)
30. M. Rafajlović, J. Rambla, J. L Feder, A. Navarro, R. Faria. (2021). Inversions and genomic differentiation after secondary contact: When drift contributes to maintenance, not loss, of differentiation. **Evolution** 75:1288-1303 (doi: 10.1111/evo.14223)
31. A. D. Melin, J. D. Orkin, M. C, Janiak, A. Valenzuela, L. Kuderna, F. Marrone III, H. Ramangason, J. E. Horvath, C. Roos, A. C. Kitchener, C. Chuen Khor, W. Khong Lim, J. G. H. Lee, P. Tan, G. Umapathy, M. Raveendran, R. A. Harris, I. Gut, M. Gut, E. Lizano, T. Nadler, D. Zinner, M. D. Le, S. Manu, C. J. Rabarivola, A. Zaramody, N. Andriaholinirina, S. E. Johnson, E. D. Jarvis, O. Fedrigo, D. Wu, G. Zhang, K. Kai-How Farh, J. Rogers, T.

Marques-Bonet, A. Navarro, D. Juan, P. S. Arora, J. P. Higham. (2021). Variation in predicted COVID-19 risk among lemurs and lorises. **American Journal of Primatology** 83: e23255 (doi: 10.1002/ajp.23255)

32. Ciampa, I., Operto, G., Falcon, C., Minguillon, C., Castro de Moura, M., Pineyro, D., Esteller, M., Luis Molinuevo, J., Guigo, R., Navarro, A., Gispert, J., Vilor-Tejedor, N. (2021). Genetic Predisposition to Alzheimer's Disease Is Associated with Enlargement of Perivascular Spaces in Centrum Semiovale Region. **Genes** 12(6): 825 (doi: 10.3390/genes12060825).
33. R. García-Pérez, P. Esteller-Cucala, G. Mas, I. Lobón, V. Di Carlo, M. Riera, M. Kuhlwilm, A. Navarro, A. Blancher, L. Di Croce, J. L. Gómez-Skarmeta, D. Juan, T. Marquès-Bonet. (2021). Epigenomic profiling of primate lymphoblastoid cell lines reveals the evolutionary patterns of epigenetic activities in gene regulatory architectures. **Nature Communications** 12, 3116. (doi: 10.1038/s41467-021-23397-1)
34. J. Harrow, J. Hancock, ELIXIR-EXCELERATE Community, N. Blomberg, S. Brunak, S. Capella-Gutierrez, C. Durinx, C. T. Evelo, C. Goble, I. Gut, J. Ison, T. Keane, B. Leskošek, L. Matyska, J. McEntyre, C. Miguel, A. Navarro, S. Newhouse, T. Nyrönen, P. Palagi, B. Persson, C. Pommier, J. Rambla, M. Roos, G. Rustici, A. Smith, A. Valencia, C. van Gelder, J. Vondrasek, N. Peder Willassen, J. Arenas, H. Parkinson, R. D. Finn, S. Beltran, L: Matalonga, H. Hurst, P. Kersey, I. Lappalainen, P. Kahlem, G. Saunders, S. Sarntivijai, R. Drysdale, J. Tedds, J. Lanfear, J. Harrow. (2021). ELIXIR-EXCELERATE: establishing Europe's data infrastructure for the life science research of the future. **EMBO Journal** 40: e107409 (doi: 10.15252/embj.2020107409)
35. Muntané, G., X. Farré, E. Bosch, L. Martorell, A. Navarro and E. Villella. (2021). The shared genetic architecture of schizophrenia, bipolar disorder and lifespan. **Hum. Genet.** 140: 441–455 (doi: 10.1007/s00439-020-02213-8)
36. Santpere, G., M. Telford, P. Andres-Benito, A. Navarro, and I, Ferrer (2020). The Presence of Human Herpesvirus 6 in the Brain in Health and Disease. **Biomolecules**: 10(11): 1520 (doi: 10.3390/biom10111520)
37. Brasó-Vives, M., I. S. Povolotskaya, D. A Hartasánchez, X. Farré, M. Fernandez-Callejo, M. Raveendran, R. A. Ian Harris, D. L. Rosene, B. Lorente-Galdos, A. Navarro, T. Marques-Bonet, J. Rogers, D. Juan. (2020) Copy number variants and fixed duplications among 198 rhesus macaques (Macaca mulatta). **PLoS Genetics** 16: e1008742 (doi: 10.1371/journal.pgen.1008742)
38. Heredia-Genestar, J.M., T. Marquès-Bonet, D. Juan and A. Navarro*. (2020). Extreme differences between human germline and tumor mutation densities are driven by ancestral human-specific deviations. **Nature Communications** 11:1-9. (doi: 10.1038/s41467-020-16296-4)
39. The ICGC/TCGA Pan-Cancer Analysis of Whole Genomes Consortium (including T. Heredia, T. Marquès-Bonet and A. Navarro). (2020). Pan-cancer analysis of whole genomes. **Nature** 578: 82–93. doi: 10.1038/s41586-020-1969-6)
40. Farré, X., N. Spataro, F. Haziza, J. Rambla and A. Navarro*. (2020). Genome-Phenome Explorer (GePhEx): A tool for the visualization and interpretation of phenotypic relationships supported by genetic evidence. **Bioinformatics** 36: 890–893 (doi: 10.1093/bioinformatics/btz622).
41. Peroni, S., M. Sorosina, S. Malhotra, F. Clarelli, A. M. Osiceanu, L. Fedrré. T Roostaei, J. Río, L. Midaglia, L. M Villar, J. C Álvarez-Cermeño, C. Guaschino, M. Radaelli, L. Citterio, J. Lechner-Scott, N. Spataro, A. Navarro, V. Martinelli, H. L. Weinwe, P. de Jager, X. Montalban, G. Comi, F. Esposito, M. Comabella, F. Martinelli-Boneschi. (2020). A pharmacogenetic study implicates NINJ2 in the response to IFNβ in Multiple Sclerosis patients. **Multiple Sclerosis Journal** (https://doi.org/10.1177/1352458519851428)
42. Gil-Varea, E., N. Spataro, L. María Villar, A. Tejeda-Velarde, L. Midaglia, F. Matesanz, S. Malhotra, H. Eixarch, N. Patsopoulos, Ó. Fernández, B. Oliver-Martos, A. Saiz, S. Llufriu, L. Ramió-Torrentà, E. Quintana, G. Izquierdo, A. Alcina, E. Bosch, A. Navarro, X. Montalban,

M. Comabella. (2020). Targeted resequencing reveals rare variants enrichment in multiple sclerosis susceptibility genes. **Human Mutation** 41:1308-1320. (doi: 10.1002/humu.24016)

43. Gil-Varea, E., M. Fedetz, H. Eixarch, N. Spataro, L. María Villar, E. Urcelay, A. Saiz, O. Fernández, L. Leyva, Ll. Ramió-Torrentà, K. Vandenbroeck, D. Otaegui, T. Castillo-Triviño, G. Izquierdo, S. Malhotra, E. Bosch, A. Navarro, A. Alcina, X. Montalban, F. Matesanz* and M. Comabella. (2020). A new risk variant for multiple sclerosis at 11q23.3 locus modifies CXCR5 expression at regulatory T cells 1. **Journal of Clinical Medicine** 9(3): 625. (doi: 10.3390/jcm9030625)
44. Gelabert, P., Sandoval-Velasco, M., Serres, A., de Manuel, M., Renom, P., Margaryan, A: Stiller, J., de-Dios, T., Fang, Q., Feng, S., Mañosa, S., Pacheco, G., Ferrando-Bernal, M., Shi, G., Hao, F, Chen, X., Petersen, B., Olsen, R.-A., A. Navarro, Deng, Y., Dalén, L., Marquès-Bonet, T., Zhang, G., Antunes, A., Gilbert, T.M., Lalueza-Fox, C. (2020). Evolutionary history, genomic adaptation to toxic diet and extinction of the Carolina parakeet. **Current Biology** 30:108-114.e5 (doi: 10.1016/j.cub.2019.10.066)
45. Karlsson Linnér, R. *et al.* (including G. Muntané, C. Morcillo and A. Navarro). (2019). Genome-wide association analyses of risk tolerance and risky behaviors in over one million individuals identify hundreds of loci and shared genetic influences. **Nature Genetics** 51: 245–257 (doi: 10.1038/s41588-018-0309-3)
46. Saunders, G., Baudis, M., *et al*. (including J. Rambla, and A. Navarro). (2019) Leveraging European infrastructures to access 1 million human genomes by 2022. **Nature Reviews Genetics** 20: 693–701 (doi:10.1038/s41576-019-0156-9)
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12. Navarro, A. 2012. Genes, dinero y Darwin: una nueva aproximación al estudio de la evolución humana. pp-13-21 In: *Visiones del ser humano. Del pasado al presente*. Eds: A. Mateos-Cachorro y A. Perote-Alejandre. ISBN: 978-84-7867-085-7. CNIEH (Burgos, Spain)
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16. Vilarroya, O., S. Atran, A. Navarro, K. Ochsner, A. Tobena (Editors) 2009. *Values, Empathy, and Fairness across Social Barriers*. Vol. 1163 of the Annals of The New York Academy of Sciences ISB:978-1-57331-760-3.John Wiley & Sons, Ltd. (New York)

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18. Faria, R. and A. Navarro. 2009. *The role of natural selection in chromosomal speciation.* In: Evolución y Adaptación. 150 años después del Origen de las Especies. Sociedad Española de Biología Evolutiva (Valencia)
19. Navarro, A. and C. Segarra. (Editors) 2009. *Cent cinquanta anys després de L'origen de les espècies, de Darwin*. Vol 60 dels Treballs de la Societat Catalana de Biologia. ISSN 0212-3037. Institut d'Estudis Catalans (Barcelona)
20. Navarro, A. 2009. *Economia, gens i evolució : una aproximació a l'estudi de l'hominització*. In: *Cent cinquanta anys després de L'origen de les espècies, de Darwin*. Eds: A. Navarro i C. Segarra. Treballs de la Societat Catalana de Biologia. 60: 231-243. ISSN 0212-3037. Institut d'Estudis Catalans (Barcelona)
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22. Navarro, A. 2007. Conflict and Cooperation in Human Affairs. In: Social Brain Matters. Eds: Oscar Vilarroya and Francesc Forn. VIBS Book Series. Rodolpi (Rome).
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Other Publications:

1. Navarro, A. 2025. Universitats i Recerca: renovar el compromís. **ARA** 4 de Gener 2025
2. Navarro, A. 2023. Ciència: una paradoxa i un projecte exemplar. **ARA** 6 de Febrer 2023
3. Navarro, A. 2023. Svante Pääbo y el Método Científico. **La Maleta de Portbou** 59:60-66.
4. Navarro, A. 2022. Lleis de la ciència: de voler a poder. **ARA** 17 de Juliol 2022:37.
5. Capella Gutiérrez, S., E. Bernal Delgado, S. García Armesto, A. Jene, A. Navarro, C. Luis Parra Calderón, J. Rambla, A. Valencia, J. González García (2021). Bases de la Estrategia Europea para la Explotación Masiva y Distribuida de Datos en Salud. **I+ S: Revista de la Sociedad Española de Informática y Salud** 143: 7-15.
6. Navarro, A. 2020. Lo que los rankings esconden. **Informe CyD** 2020.
7. Navarro, A. 2020. La Caída de Santa Lidwina o como una pandemia puede transformarnos. **La Maleta de Portbou** 42:30-35
8. Aguilera Luna, F. and A. Navarro. 2017. La Gestación Subrogada. **El Ciervo**: revista mensual de pensamiento y cultura, 96:764
9. Rodriguez, J.A., Bosch, E. y A. Navarro. Desenterrando las raíces evolutivas del envejecimiento. **Genética Médica**. 22-02-2017
10. Navarro, A. 2014. *Anomalía, exemple i feblesa*. **La Vanguardia**. 07-01-2014.
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12. Navarro, A. 2011. Els miracles de santa Garmendia. **Ara** 1840 (2 de Juny): 28.
13. Navarro, A. 2011. *L'oportunitat de la Crisi (Editorial)*. **Omnis Cellula** 26: 5.
14. Navarro, A. 2009. *Charles Darwin i el Misteri de l'Herència.* **Omnis Cellula** 21:10-15.
15. Navarro, A. 2009. *¿Severa sequía de Severos? 50 años de la concesión del premio Nobel a Severo Ochoa*. **Apuntes de Ciencia y Tecnología** 32: 23-24.
16. Navarro, A. 2009. *Darwinius masillae o las amistades peligrosas*. **Apuntes de Ciencia y Tecnología** 31: 19-20.

17. Navarro, A. 2009. *La Gripe Porcina: Evolución en Acción*. **Apuntes de Ciencia y Tecnología** 31:17-18.
18. Navarro, A. 2009. *Año Darwin. Se celebra en todo el mundo el bicentenario del nacimiento de Charles Darwin y los 150 años de la publicación de El Origen de las Especies*. **Apuntes de Ciencia y Tecnología** 30:21-22.
19. Navarro, A. 2009. *Darwin a ulls de la genètica*. **Revista de medi ambient**.
20. Navarro, A. 2008. *Dos pasos más hacia la genómica personal. Publicación de dos nuevos genomas completos*. **Apuntes de Ciencia y Tecnología** 29:14-15.
21. Navarro, A. 2008. *Muere el Cristóbal Colón de la Genética Médica. Victor A. McKusick 1921–2008*. **Apuntes de Ciencia y Tecnología** 29:10.
22. Navarro, A. 2008. *El Genoma de Lampedusa*. **Apuntes de Ciencia y Tecnología** 27: 23-24.
23. Navarro, A. 2008. *Darwin i l'esperit Crític*. **Perspectiva Escolar.** Mayo 2008. 325:23-27.
24. A. Valencia and A. Navarro. 2008. *¡Viva la diferencia! La revolución de la genómica personal*. **Canal de Farmacia.** Marzo 2008.
25. Navarro, A. 2007. *El desencert de James D. Watson (Editorial)*. **Omnis Cellula** 15: 5.
26. Navarro, A. 2007. *Tres libros: uno impotente y dos imposibles (A long review of the books by Collins, Dawkins and Dennet on Science and Religion)*. **Revista de la SEBBM.**
27. Navarro, A. 2007. *Un llibre impotent i dos d'impossibles (A short review of the books by Collins, Dawkins and Dennet on Science and Religion)*. **El Temps** 1183:20.
28. Navarro, A. 2007. *Ni diseño ni inteligente*. **La Vanguardia**. 28-02-2007.
29. Navarro, A. 2005. *El mateix collar en diferents gossos (On creacionism in Kansas)*. **El Temps** 1121:100-102.
30. Navarro, A. 2005. *El mismo collar con distintos perros: el Consejo de Educación de Kansas abre las puertas al creacionismo y ataca la teoría de la evolución*. **Biomedia**, electronic publication (http://www.biomeds.net/biomedia/d00021105.htm)
31. Navarro, A., 2005. *Especiación Cromosómica en Primates*. **Investigación y Ciencia**/Scientific American. 347:70-77
32. Navarro, A., 2004. *Los logros inesperados de la era del genoma***. Apuntes de Ciencia y Tecnología** 13: 30-38.
33. Navarro, A., 2004. *Cerebro: Biología y predisposición en los conflictos humanos*. **El Cultural**. 22 de Julio: 53-56.
34. Navarro, A., 2004. *Conflict and cooperation in human affairs*. In: "The social brain, the biology of conflict and cooperation". A Dialog in **Barcelona's Fòrum** 2004. (http://www.barcelona2004.org)
35. Rivero, A. and A. Navarro, 2001. *Endogamia en la universidad, lecciones del programa Ramón y Cajal.* **Apuntes de Ciencia y Tecnología** 4: 33-34.

MEETING Contributions (Regular submissions, updated until mid-2023)

1. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE23. (Ferrara, Italy). July 2023. Poster: *CAASTools: a toolbox to identify and test Convergent Amino Acid Substitution.* (F. Barteri, A. Valenzuela, G Muntané, D. de Juan and A. Navarro).
2. IV Symposium at Institute of Evolutionary Biology (Barcelona, Spain). June 2023. Talk: *The evolutionary causes of disease: genetic trade-offs with longevity and fertility*. (E. Brigos and A. Navarro).

3. BLAST Network Workshop: Physiology and Demography of Early Human Evolution (London, UK), February 2023. Talk: *Human complex disease and its relationship with fertility and longevity.* (E. Brigos and A. Navarro).
4. 21st European Comference on Computational Biology (Sitges, Spain). September 2022.
5. XVIII Congress of the European Society for Evolutionary Biology, ESEB 2022. (Prague, Czech Republic) August 2022. Talk: *A phylogenetic genome-phenome map of complex traits in primates*. (A. Valenzuela, L. Kuderna, F. Barteri, G. Muntané, D. Juan, T. Marqués-Bonet and A. Navarro).
6. 2nd Geroscience 2022 (Tolouse, France) Mach 2022. Poster: *Human fertility and antagonistic pleiotropy.* (E. Brigos, C. Vasallo, E. Bosch, H. Laayouni, N. Vilor-Tejedor, C Morcillo-Suárez, G. Muntané, A. Navarro)
7. IX Simposi de Bioinformàtica i Genòmica (Barcelona, Spain). December 2021. Talk: *Leveraging comparative genomics across primates to decipher the genomic architecture of complex traits*. (A. Valenzuela, F. Barteri, G Muntané, D. de Juan and A. Navarro)
8. IX Simposi de Bioinformàtica i Genòmica (Barcelona, Spain). December 2021. Poster: *Introducing FastCAAS. A tool for Convergent Amino Acid Substitution discovery and statistical validation.* (F. Barteri, X. Farré, A. Valenzuela, G Muntané, D. de Juan and A. Navarro)
9. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE19. (Manchester, UK). July 2019. Talk: *Detecting and understanding the action of natural selection within segmental duplications in primates.* (X. Farre and A. Navarro)
10. Annual Meeting of the Society for Molecular Biology and Evolution SMBE19. (Manchester, UK). July 2019. Poster: *The Good, the Bad and the Hairy: Or how tumor mutation distribution reconstructs human's lost diversity.* (J. M. Heredia-Genestar, D. Juan, T. Marquès-Bonet, A. Navarro)
11. Annual Meeting of the Society for Molecular Biology and Evolution SMBE19. (Manchester, UK). July 2019. Poster: *Revisiting the influences of mutation accumulation and antagonistic pleiotropy on human senescence and disease* (X. Farré, J.A. Rodriguez, G. Muntané, E. Bosch and A. Navarro)
12. Annual Meeting of the Society for Molecular Biology and Evolution SMBE19. (Manchester, UK). July 2019. Poster: *Combining GWAS to detect genetic trade-offs between complex diseases and longevity. Insights from Schizophrenia.* (G. Muntané, X. Farré, E. Bosch, L. Martorell, E. Vilella and A. Navarro)
13. Annual Meeting of the Society for Molecular Biology and Evolution SMBE18. (Yokohama, Japan). July 2018. *Poster: 50 years since Ohno's genome duplication: integration across disciplines and time scales*. (M. Braso-Vives*, D. Hartasanchez, D. Juan and A. Navarro)
14. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE18. (Yokohama, Japan). July 2018. Poster: *The dark side of duplications: what to expect, what to look for, and their collapse* (D. Hartasanchez, M. Braso-Vives and A. Navarro)
15. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE18. (Yokohama, Japan). July 2018. Poster: *Evolution of the mutation distribution in hominid and cancer genomes* (T. Heredia-Genestar, D. Juan, T. Marquès-Bonet and A. Navarro)
16. Annual Meeting of the Society for Molecular Biology and Evolution SMBE17. (Austin, Texas, USA). July 2017. Talk: *Detecting and understanding the action of natural selection within segmental duplications in primates.* (J. Daub and A. Navarro)
17. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE16. (Gold Coast, Queensland Australia) July 2016. Introductory Talk in the symposium "Structural variation in the light of new sequencing technologies" (J. Daub, M. Brasó, D. Hartasánchez and A. Navarro)
18. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE16. (Gold Coast, Queensland Australia) July 2016. Talk: *Human Segmental Duplications: Exploring the role of*

segmental duplications in the phenotypic differences between humans and other great apes. (M. Brasó, D. Hartasánchez and A. Navarro)

19. Annual Meeting of the Society for Molecular Biology and Evolution. SMBE16. (Gold Coast, Queensland Australia) July 2016. Poster: *To convert or not to convert: homology requirements for meiotic gene conversion*. (D. Hartasánchez, M. Brasó and A. Navarro))
20. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2016; New York, USA; Poster: *GWAS replication in time: ten years later*. (J. A Rodriguez, U. M Marigorta, E. Bosch, A. Navarro).
21. 9th International Conference on HVV-6 & 7 (Boston, USA). November 2015. Talk: *Target enrichment as a tool for wide-scale genome-wide comparison and intra-strain variation, in genome-integrated Human Herpesvirus 6.* (M. Telford, G. Santpere, D. A. Hughes, A. Navarro)
22. Evolutionary Medicine Conference 2015. Interdisciplinary Perspectives on Human Health and Disease (Zurich, Switzerland). August 2015. Talk: *A genome-wide exploration of the antagonistic pleiotropy theory of senescence* (J.A. Rodríguez and A. Navarro)
23. Annual Meeting of the Society for Molecular Biology and Evolution (Viena, Austria) July 2015. Poster: *Collapsed duplications? What to expect and what to look for.* (D. Hartasanchez, M. Brasó and A. Navarro).
24. Annual Meeting of the Society for Molecular Biology and Evolution (Viena, Austria) July 2015. Poster: *Genetic factors affecting EBV Load in Transformed LCLs from the 1000 Genome Project: a GWAS on Transformation.* (R. H. Mandaje, G. Santpere and A. Navarro).
25. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2015. Poster: *A genome-wide exploration of the antagonistic pleiotropy theory of senescence supports its role in shaping human ageing and disease* (J.A. Rodríguez and A. Navarro)
26. Inaugural meeting of The International Society for Evolution, Medicine, & Public Health. (Tempe, Arizona, USA) March 2015. Talk: *A genome wide exploration of the pleiotropic theory of senescence. Are human disease and senescence the result of natural selection?* (J.A. Rodríguez and A. Navarro)
27. Neuroscience 2014. Annual Meeting of the Society for Neuroscience (Washington, USA) November 2014. Talk: *Uncovering the genetic differences of hemispheric lateralization in humans*. (G. Muntan, G. Santpere, A. Verendeev, A. Bauernfeind, A. Navarro, W.D. Hopkins, C.C. Sherwood)
28. Evolution 2014. Meeting of the Society for the Study of *Evolution* (Raleight, NC, USA). June 2014. Talk: *A genome wide exploration of the pleiotropic theory of senescence. Are human disease and senescence the result of natural selection?* (J.A. Rodriguez and A. Navarro).
29. Evolution 2014. Meeting of the Society for the Study of Evolution (Raleight, NC, USA). June 2014. Talk: *Analysis of six gene sets in the chimpanzee lineage illustrates the differential action of natural selection upon coding and non-coding sequences.* (G. Santpere. E. Bosch and A. Navarro)
30. Evolution 2014. Meeting of the Society for the Study of *Evolution* (Raleight, NC, USA). June 2014. Talk: *Genome-wide analysis of wild-type Epstein-Barr virus genomes derived from healthy individuals of the 1000 Genomes Project.* (G. Santpere, F. Darre, M. Telford, R. Mandaje and A. Navarro)
31. Cell Symposium on the Evolution of Modern Humans: From Bones to Genomes 2014. Meeting of the Society for the Study of *Evolution* (Sitges, Spain). March 2014. Poster: *A genome wide exploration of the pleiotropic theory of senescence. Are human disease and senescence the result of natural selection?* (J.A. Rodriguez and A. Navarro).
32. Human Genome Meeting 2014. (Geneva, Switzerland) April 2014. Poster: *A genome wide exploration of the pleiotropic theory of senescence. Are human disease and senescence the result of natural selection?* (J.A. Rodríguez and A. Navarro)

33. EMBO Conference on Human evolution in the genomic era: origins, populations and phenotypes 2014 (Leiscester, UK) Poster: *Differences in evolutionary rates among microRNA categories in the human and chimpanzee genomes*. (G. Santpere. M.L. Valenzuela, A. Navarro and Y. Espinosa)

34. Annual Meeting of the Society for Molecular Biology and Evolution (Chicago, USA) July 2013. Talk: *Molecular Evolution of DNA sequences within structural variations: evidence for selection vs. neutral expectations* (D. Hartasanchez, M. Brasó, O. Valles and A. Navarro).

35. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2013. Poster: *EBV strain variation in different lymphoblastoid cell lines derived from 1000 Genomes Project individuals*. (G. Santpere, F. Darre, M.M. Albà and A. Navarro)

36. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2013. Poster: *How often does natural selection targets multiple, interacting genes? The prevalence of epistasis in recent human evolution*. (N. Petit-Marty and A. Navarro)

37. XIV Congress of the European Society for Evolutionary Biology (Lisbon, Portugal) August 2013. Talk: *Interplay of Gene Conversion and Crossover in the Molecular Evolution of Multigene Families*. (D. Hartasanchez, O. Valles and A. Navarro).

38. Annual Meeting of the American Society for Human Genetics (Boston, USA) October 2013. Talk: *Accelerated evolution of primate-specific microRNAs in the human genome.* (M. Lopez-Valenzuela, N. Petit-Marty, A. Navarro, Y. Espinosa-Parrilla)

39. Annual Meeting of the Society for Molecular Biology and Evolution (Dublin, Ireland) June 2012. Poster: *Pathway analysis of the action of natural selection on coding and non-coding genomic elements* (G. Santpere, E. Carnero-Montoro, N. Petit, J. Rambla, F. Serra, C. Hvilson, H. Dopazo, A. Navarro and E. Bosch).

40. Annual Meeting of the Society for Molecular Biology and Evolution (Dublin, Ireland) June 2012. Poster: *HeT-A_pi1, a piRNA target sequence in the Drosophila telomeric retrotransposon HeT-A, is extremely conserved across copies and species* (N. Petit, D. Piñeyro, E. López-Panadès, E. Casacuberta and A. Navarro).

41. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2012. Poster: *On the Molecular Evolution of Segmentally Duplicated Sequences* (D. A. Hartasánchez, O. Vallès-Codina, and A. Navarro)

42. III Meeting of the Sociedad Española de Biologia Evolutiva. SESBE 2011. Talk*: Recent human evolution, continental differences in genes for complex disease and the common gene/common variant hypothesis*. (U. M. Marigorta and A. Navarro)

43. III Meeting of the Sociedad Española de Biologia Evolutiva. SESBE 2011. Talk*: HeT-A_pi1, a piRNA target sequence in the Drosophila telomeric retrotransposon HeT-A, is extremely conserved across copies and species*. (N. Petit, D. Piñeyro, E. López-Panadès, E. Casacuberta and A. Navarro)

44. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2011. Poster: Fast exon evolution in duplicated regions in primates (Lorente-Galdos, M. B., Bleyhl, J., Vives, L., Cooper, G., Navarro, A., Eichler, E .E., Marques-Bonet, T.)

45. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2011. Poster: Continental Differences in GWAS Results Statistical Power or Population-Specific Variants? (U. Martinez-Marigorta and A. Navarro)

46. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2011. Poster: A highly conserved piRNA target in the telomeric transposable element HET-A? (N. Petit, D. Piñeyro, E. López-Panadès, E. Casacuberta and A. Navarro)

47. TIBE2010. Trends in Biodiversity and Evolution 2010 (Porto, Portugal). December 2010. Talk: *Insight into the Evolution of Great Apes from Copy Number Variation*. (A. Navarro)

48. Annual Meeting of the Society for Molecular Biology and Evolution (Lyon, France) July 2010. Poster: A comparative study of copy-number polymorphism in the great apes: species-

specific variation and adaptation (E. Gazave, F. Darré, T. Marques-Bonet, B. Lorente, C. Morcillo, N. Petit-Marty, A. Carreño, A. Blancher, M. Rocchi, E. Eichler and A. Navarro).

49. Annual Meeting of the Society for Molecular Biology and Evolution (Lyon, France) July 2010. Poster: The genomic distribution of nucleotide substitution rates in great apes. (R. Faria, D. Farré, S. Neto, F. Darré, O. Fernando, E. Gazave, M. Oliva and A. Navarro)
50. Annual Meeting of the Society for Molecular Biology and Evolution (Lyon, France) July 2010. Poster: A worldwide map of the human Epstein-Barr Virus (EBV) virome variability (F. Darré, T. Heredia-Genestar, E. Gazave, A. Navarro)
51. Evolutionary biology conference: phylogeny, speciation, co-evolution, development, genomes, life histories, plasticity… What is new? (Rennes, France). June 2009. Poster: Chromosomal speciation: from theory to facts. (R. Faria and A. Navarro).
52. LXXIV Cold Spring Harbor Symposium on Quantitative Biology (CSHL, New York, USA). May 2009. Poster: Interrogating fast-evolving genes for signatures of positive selection in world-wide populations. (A. Moreno-Estrada, K. Tang, M. Sikora, T. Marquès-Bonet, F. Casals, Arcadi Navarro, Francesc Calafel, J, Bertranpetit, M. Stoneking and E. Bosch).
53. Annual Meeting of the Society for Molecular Biology and Evolution (Barcelona, Spain) June 2008. Talk: Recombination rate evolves with genetic differentiation in humans. (Ferran Casals, Hafid Laayouni, David Comas, Elena Bosch, Marta Melé, Kate M McGee, Philip Awadalla, Arcadi Navarro, Francesc Calafell, Jaume Bertranpetit).
54. Annual Meeting of the Society for Molecular Biology and Evolution (Barcelona, Spain) June 2008. Poster: The role of human population genetic heterogeneity in the successful replication of the disease risk variants. (Urko Martinez, Elodie Gazave, Carlos Morcillo, Ferran Casals and Arcadi Navarro).
55. Annual Meeting of the Society for Molecular Biology and Evolution (Barcelona, Spain) June 2008. Poster: Copy Number Variation in the Great Apes. (Elodie Gazave, Fleur Darre, Tomàs Marques-Bonet, Evan Eichler and Arcadi Navarro).
56. Annual Meeting of the Society for Molecular Biology and Evolution. (Barcelona, Spain), June 2008. Poster: Introns as neutrally evolving sequences: How far? (Olga Fernando and Arcadi Navarro)
57. Annual Meeting of the Society for Molecular Biology and Evolution. (Barcelona, Spain), June 2008. Poster: Interrogating fast-evolving genes for signatures of recent positive selection in worldwide human populations (Andrés Moreno-Estrada, Kun Tang, Martin Sikora, Tomàs Marquès-Bonet, Arcadi Navarro, Elena Bosch)
58. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2008. Poster: Copy Number Variation in the Great Apes. (Elodie Gazave, Fleur Darre, Tomàs Marques-Bonet, Evan Eichler and Arcadi Navarro).
59. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2008. Poster: The role of human population genetic heterogeneity in the successful replication of the disease risk variants. (Urko Martinez, Elodie Gazave, Carlos Morcillo, Ferran Casals and Arcadi Navarro).
60. IXth International meeting on Human Genome Variation and Complex Genome Analysis (Sitges, Spain) September 2007. Poster: On the association between chromosomal rearrangements and genic evolution in humans and chimpanzees (Marquès-Bonet, T. Jesús Sànchez-Ruiz, J. Lluís Armengol, L. Khaja, R. Jaume Bertranpetit, J. Lopez-Bigas, N. Mariano Rocchi, M. Gazave, E. and Navarro, A.)
61. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2007. Poster: *Patterns and rates of intron divergence between humans and chimpanzees: the hallmark of selection*. (Elodie Gazave, Tomàs Marquès-Bonet, Olga Fernando, Brian Charlesworth, Arcadi Navarro).
62. Evolutionary Genomics Conference Jacques Monod (Roscoff, Bretagne, France) May 2007. Poster: Pervasive allele-specific gene expression in the human genome. (Olga Fernando,

Elodie Gazave, Ricardo Palacios, Joaquín Goñi, Gabriel Piedrafita, Pablo Villoslada, Arcadi Navarro).

63. Evolutionary Genomics Conference, Jacques Monod Conference (Roscoff, Bretagne, France) May 2007. Communication: Patterns and rates of intron divergence between humans and chimpanzees: the hallmark of selection. (Elodie Gazave, Tomàs Marquès-Bonet, Olga Fernando, Brian Charlesworth, Arcadi Navarro).
64. XVII Seminario de Genética de Poblaciones y Evolución. (Sant Feliu de Guixols, Spain) November 2006. Communication: Detección de selección positiva en poblaciones humanas. (Ferran Casals, Elena Bosch, Andrés Moreno, Anna Ferrer, Michelle Gardner, David Comas, Urko Martínez, Anna Ramírez, Tomàs Marquès, Francesc Calafell, Arcadi Navarro, Jaume Bertranpetit)
65. HUGO - Human Genome Organization Meeting 2006 (Helsinki, Finland) Poster: *Exploring human genetic variation through SNPs in genes with accelerated evolution in the human lineage*. (Andrés Moreno-Estrada, Tomàs Marques-Bonet, Arcadi Navarro, Jaume Bertranpetit, Elena Bosch)
66. Pop Group 2005, The Population Genetics Group Meeting (Edinbugh, UK) Communication: (A. Navarro) December 2005. The prion protein gene in humans revisited: lessons from a worldwide resequencing study (M. Soldevila, O. Lao, F. Calafell, J. Bertranpetit and A. Navarro)
67. American Society Human Genetics Annual Meeting 2005 (Salt Lake City, USA). October 2005. Communication: Interparalog gene conversion patterns of HBII-52 C/D box snoRNAs cluster at human chromosome 15q11-q12. (M. Ogorelkova, A. Navarro and X. Estivill)
68. XIII World Congress on Psychiatric Genetics (Boston, USA) October 2005. Poster: Extensive gene conversion shapes the DNA sequence variability of HBII-52 small nucleolar RNA cluster and leads to rare haplotypes. (M. Ogorelkova, H. Howard, C. García, A. Navarro, X. Estivill)
69. 4th European Conference on Computation Biology (Madrid, Spain). September 2005. Communication: Association Cluster Detector: a tool for heuristic detection of association clusters in whole-genome scans. (T. Marques, O. Lao, R. Goertsches, M. Comabella, X. Montalban and A. Navarro)
70. Cold Spring Harbor Laboratory Meeting on the Biology of Genomes (CSHL, New York, USA). May 2005. Communications: Interparalog gene conversion patterns of HBII-52 C/D box snoRNAs cluster at human chromosome 15q11-q12. (M. Ogorelkova, A. Navarro and X. Estivill)
71. 5th Annual Spanish Bioinformatics Conference. (Barcelona, Spain) 29 November / 2 December 2004. Poster: A tool for heuristic detection of association clusters in whole-genome scans. (T. Marquès-Bonet, O. Lao, R. Goertsches, Manuel Comabella, X. Montalban, A. Navarro)
72. 5th Annual Spanish Bioinformatics Conference. (Barcelona, Spain) 29 November / 2 December 2004. Poster: A web-based utility for high-throughput SNP data analysis. (C. Morcillo, J. Alegre, M. Esteve, J. Bertranpetit, F. Calafell and A. Navarro)
73. XVI Seminario de Genética de Poblaciones y Evolución. (Siguenza, Spain) November 2004. Communication: Dinámica genómica: interacciones entre la evolución cromosómica, nucleotídica y de expresión. (T. Marquès-Bonet, J. Bertranpetit, A. Navarro, E. Bosch.)
74. Annual Meeting of the Society for Molecular Biology and Evolution. Newport Beach (California, USA), June 2003. Communication: *The molecular signature of speciation in humans and chimpanzees.* (A. Navarro and N. Barton)
75. XIV Seminario de Genética de Poblaciones y Evolución. Gandía (Valencia), November 2002. Communication: *La huella molecular de la especiación en humanos y chimpancés* (A. Navarro and N. Barton)
76. Joint EPSRC/BBSRC/NERC/MRC Workshop in Theoretical Biology. Cambridge (UK), October 2001. Communication: *Extending the coalescent to multilocus systems* (A. Navarro)

77. Evolution 2000 (Joint meeting of the SSE, the ASN, the SSB and the ATB). Bloomington, Indiana (USA), June 2000. Communication: *The effects of multilocus selection on linked neutral variability* (A. Navarro and N. Barton)
78. Joint BBSRC/EPSRC Workshop in Theoretical Biology. Bournemouth (UK), November 1999. Poster: *The effects of genetic structure on linked neutral variability* (N. Barton and A. Navarro)
79. European Science Foundation Workshop. Selection in Genetically and Spatially Structured Populations. Edinburgh (UK), September 1999. Communication: *Do inversion polymorphisms affect nucleotide variability?* (A. Navarro, A. Barbadilla and A. Ruiz).
80. VII Congress of the European Society for Evolutionary Biology. Barcelona (Spain), August 1999. Poster: *Effect of inversion polymorphism on linked nucleotide variability.* (A. Navarro, A. Barbadilla and A. Ruiz).
81. 5th Annual Meeting of the Society for Molecular Biology and Evolution. Garmisch-Partenkirchen (Baviera, Alemania), June 1997. Poster: *Recombination and gene flux caused by crossing over and gene conversion in inversion heterokaryotypes.* (A. Navarro, E. Betrán, A. Barbadilla and A. Ruiz).
82. XI Seminario de Genética de Poblaciones y Evolución. Santiago de Compostela (La Coruña), April 1997. Communication: Recombinación al nivel del ADN: conversión génica *vs.* entrecruzamiento [*Recombination at the DNA level: gene conversion vs. crossing-over*] (A. Barbadilla, A. Berry, E. Betrán, A. Rozas and A. Navarro).
83. XI Seminario de Genética de Poblaciones y Evolución. Santiago de Compostela (La Coruña), April 1997. Communication: Evolución cromosómica y cartografía comparada en el grupo *repleta* de *Drosophila* [*Chromosome evolution and compared mapping in the repleta group of the genus Drosophila*](A. Ruiz, J.M. Ranz, M. Cáceres, A. Navarro, A. Barbadilla and C. Segarra).
84. X Seminario de Genética de Poblaciones y Evolución. Miraflores de la Sierra (Madrid), April 1995. Communication: Dinamica del desequilibrio gamético entre loci asociados a polimorfismos de inversiones: efecto de la recombinación [*Dynamics of linkage disequilibrium between loci associated to inversion polymorphisms: the effect of recombination*] (A. Navarro, E. Betrán, C. Zapata and A. Ruiz).

INVITED CONFERENCES (Selected SINCE 2001)

1. November 2024. “Beyond GWAS: stablishing genome-phenome relationships in proteincoding genes across the primate phylogeny” Invited Talk in the The 45th KAST Frontier Scientists Workshop “Evolution of Genomes” (Barcelona, Spain)
2. October 2024. “EBV-Genetic Variations” Invited talk in the Nordic Neuro Immunology Meeting 2024. (Oslo, Norway)
3. October 2023. “Humanidades, ciencia, e inteligencia artificial”. Closing talk in the 2023 Edition of the “Festival of Humanities” (Denia, Spain)
4. March 2023. “Genomic Medicine: No Precision Without Participation”. Invited talk in LANGEBIO (Irapuato, México)
5. March 2023. “Biology in the XXIst century. New data and Old Problems”. Invited talk in the Inaugural Meeting of the STS forum – Latin America and the Caribbean High-Level Conference in Mexico City (Ciudad de México, México)
6. July 2023. “Medicina Genómica: No hay Precisión sin Participación”. Invited talk in the Ministerio de Ciencia, Tecnología e Innovación. (Buenos Aires, Argentina)
7. September 2022. “The future of data Sharing” Fireside Chat at the GA4GH Summit 2022 (Barcelona, Spain)
8. March 2022. “Biology in the XXIst century. New data and Old Problems”. Invited talk in LANGEBIO (Irapuato, México)
9. June 2022. “The Future of Research and Alzheimer’s Disease”. Keynote and roundtable in the XII Biennial Barcelona-Pittsburgh Conference (Barcelona, Spain)

10. December 2021. “Mental health and pandemics: burden and resilience”. *Disputatio* of Barcelona 2021. Academia Europaea (Barcelona, Spain)
11. October 2021. “For more and Better Science. Big and Small Data Governance, Management & Sharing”. VIII Bioinformatics Student Symposium - (International Society for Computational Biology (ISCB) (Virtual Meeting)
12. June 2021. “For more and Better Science. Big and Small Data Governance, Management & Sharing”. ICREA Colloquium (Virtual Meeting)
13. February 2021. “The Science Of The Pandemic And Science After The Pandemic”. Talks on the Pandemic. European School of Humanities (Barcelona, Spain)
14. November 2019. “Genomic BigData, Pleiotropy, Comorbidity and Senescence. Impacting Health through Sharing” 4th European Conference on Translational Bioinformatics. Biomedical Big Data Supporting Precision Medicine (Granada, Spain)
15. June 2019. “Accelerating research through sharing biomedical data with the whole World. The case of the European Genome-phenome Archive”. Keynote talk in SLAS Meeting 2019. Society for Laboratory Automation and Screening. (Barcelona, Spain)
16. November 2016. “BioBigData, human disease and Senescence” Keynote talk in “Big Data and Precision Medicine” Genyo. (Granada, Spain)
17. May 2016. “Why do we age? Human disease genes and natural selection” Invited Seminar in the series *Séminaires d'Écologie et d'Évolution de Montpellier*. University of Montpellier (Montpellier, France)
18. November 2015. “Human disease genes and natural selection. Why do we age?” Invited Seminar in the University of Buenos Aires. (Buenos Aires, Argentina)
19. November 2015. “Envejecer. El sacrificio evolutivo de los Padres”. Invited Seminar in the CENIEH. (Burgos, Spain)
20. October 2015. “Human disease genes and natural selection. Why do we age?” Invited Seminar in the University of Edinburgh. (Edinburgh, UK)
21. August 2015. “Recursos y bases de datos en genómica. EGA y los genomas de interés médico”. Universidad Internacional Menendez Pelayo. (Santander, Spain)
22. July 2015. “Big Data genòmica i salut. Una perspectiva evolutiva”. Invited Seminar in the CRAG (Bellaterra, Spain)
23. June 2015. “The European Genome-phenome Archive. Big Data Challenges and Solutions”. 3rd Plenary Meeting of the Global Alliance for Genomics and Health. (Leiden, The Netherlands)
24. April 2015. “Global –Omics data: What do we have and what can we do with it?” VII Congreso de la Sociedad Española de Farmacogenética y Farmacogenómica. (Madrid, Spain)
25. March 2015. "Whatever happened to Personalized Medicine?" Neuroinmunología - Seminarios de Formación Continuada. CemCat (Barcelona, Spain)
26. March 2015. “Human disease genes and natural selection. Why do we age?” Invited Seminar at the IDIBELL. (Barcelona, Spain)
27. July 2014. “Integrating Genomics in Evolutionary Medicine” Invited Seminar at the School of Advanced Sciences. The Graduate University for Advanced Studies. (Hayama, Japan)
28. March 2014. "Whatever happened to Personalized Medicine?" Neuroinmunología - Seminarios de Formación Continuada. CemCat (Barcelona, Spain)
29. February 2014. "GWAS across Time and Space. What have we learned?" (KeyNote Address) 4th International Conference on Bioinformatics Models, Methods and Algorithms 2014 (Angiers, France)

30. June 2013. "Los virus y la evolución humana: desde nuestros orígenes hasta antes de ayer o La caída de Santa Lidwina y otras historias" XII Congreso Nacional de Virología. (Burgos, Spain)
31. April 2013. "Exploring the Geographic Distribution of Disease Variants. Personalized or Continentalized medicine?" INBIOMED 2013. Postgraduate Course on Translational and Integrative Bioinformatics (Barcelona, Spain)
32. November 2013. "Exploring the Geographic Distribution of Disease Variants. Are common disease variants frequent and shared between human populations?" (KeyNote Address). 3a. Escuela Latinoamericana de Evolución "Genómica Evolutiva y Aplicada" (Buenos Aires, Argentina)
33. April 2013. "Whatever happened to Personalized Medicine?" Neuroinmunología - Seminarios de Formación Continuada. CemCat (Barcelona, Spain)
34. February 2013. "Big Data in Bioinformatics" 4th International Conference on Bioinformatics Models, Methods and Algorithms - BIOSTEC 2013 (Barcelona, Spain)
35. February 2013. "The truth under GWAS Are disease variants shared by all humankind?" BSC Series of Invited Seminars. Barcelona Super Computing Center (Barcelona, Spain)
36. May 2012. “Geographic distribution of human genetic diversity”. XIX Seminario de Genetica de Poblaciones y Evolución. (Bilbao, Spain)
37. March 2012. "On the Ebstein-Barr Virus and Multiple Sclerosis” IBMCP Series of Invited Seminars. Instituto de Biología Molecular y Celular de Plantas (Valencia, Spain)
38. June 2012. “*GWAS como herramientas para detectar nuevas dianas en diabetes y enfermedad vascular*”. 25 Congreso Nacional de la Sociedad Española de Arterioescleroris Hotel Imperial Tarraco (Tarragona, Spain)
39. June 2012. “*Unidos en la salud y en la enfernedad. ¿Son las asociaciones a patologías compartidas por toda la humanidad?*” Terceras Jornadas de tecnologías para la Salud. Presente y futuro de la medicina personalizada: el desafío genómico. Centro de Investigaciones Príncipe Felipe (Valencia, España)
40. March 2012. *‘The Good, the Bad and the Ugly’: Understanding collaboration between the social sciences and the life sciences*. ESF Workshop. University College London. (London, UK)
41. March 2012. *The truth under GWAS Are the major contributors to genomic risk for complex disease common to all humankind?*. Portugaliae Genetica. IPATIMUT. (Porto, Portugal)
42. December 2011. *The truth under GWAS Are the major contributors to genomic risk for complex disease common to all humankind?*. Max-Plank Institute for Evolutionary Anthropology. (Leipzig, Germany)
43. October 2011. *The molecular evolution of segmentally duplicated DNA. Looking for signatures of selection and modelling neutrality*. An Evolutionary Journey II. Universidad Carlos III de Madrid (Leganés, Spain)
44. August 2011. *A brief introduction to Genomics*. Wellcome Trust School on Biology of Social Cognition. Genome Campus. (Hinxton, Cambridge, U K)
45. July 2011. *The geographic distribution of diversity in human disease genes*. Curso de Biología Molecular “Eladio Viñuela”. Universidad Internacional Menéndez Pelayo. (Santander, Spain)
46. December 2010. *Insight into the evolution of Great Apes from Copy Number Variation.* Within the 7th Workshop on Biomedical Genomics and Proteomics, (Barcelona, Spain)
47. November 2010. *Genome-wide Association Studies Pipeline (GWASpi): a desktop application for genome-wide SNP analysis and management*. CNIO Frontiers Meeting (CFM): Cancer Pharmacogenetics: Personalizing medicine. Centro Nacional de Investigaciones Oncológicas (Madrid, Spain)

48. October 2010. La idea de justicia. Ciclo de conferencias, verdad, bien, belleza, Libertad, felicidad y Justicia. 3a Cultura y Museu d'Art de Tarragona. (Tarragona, Spain)
49. October 2010. *Towards a dissection of the genetic architecture of human economic behavior.* Centro Nacional de Astrobiología (Torrejón de Ardoz, Spain)
50. September 2010. *Towards a dissection of the genetic architecture of human economic behavior*. TECT Meeting. *Collegium Budapest* (Budapest, Hungary)
51. February 2010. *Darwin and the homo economicus. economy, genes and human evolution*. Centro de Investigaciones Príncipe Felipe (Valencia, Spain)
52. February 2010. *Towards the biological basis of cooperation.* COST Workshop on Artificial Intelligence and Social Neuroscience. Agreement Technologies Workshop. (Barcelona, Spain)
53. December 2009. *Much more than 1%. Structural variation and genomic differences in great apes*. Annual Meeting of the Sociedad Española de Biología Evolutiva (SESBE). (Valencia, Spain)
54. November 2009. *Genoeconomics: a new perspective on human evolution.* British Council and Bibliotheca Alexandrina. Darwin Now: Darwin's Living Legacy. (Alexandria, Egypt)
55. November 2009. *Structural differences between the genomes of humans and chimpanzees.* Dept. Genetics. University of the Basque Country (Burgos, Spain)
56. November 2009. Mucho más de un 1%. La verdadera cantidad de diferencias entre los genomas de humanos y chimpancés. Proyecto DEBE (Divulgación de la Evolución y la Biología Evolutiva). De los Pinzones a la Biología Evolutiva. Universidad de León (León, Spain).
57. November 2009. *Economics and human evolution.* Universitat de Barcelona. Més enllà de Darwin, competència, evolució i selecció més enllà de la Biología. (Barcelona, Spain)
58. October 2009. *Darwin y el homo economicus: una nueva perpectiva en la evolución humana.* Consejería de Cultura de Murcia y Cultura 3.0. Encuentos con Darwin. (Murcia, Spain)
59. September 2009. *Genoeconomics: a new perspective on human evolution.* ESF and COST High-Level Research Conference. Complex Systems and Changes -Darwin and Evolution: Nature-Culture Interfaces. (Sant Feliu de Guixols, Barcelona, Spain)
60. May 2009. *El que en Darwin no va dir.* XIII Setmana de l'Ensenyament de Terrassa (Terrassa, Spain)
61. June 2009. *Què és la genoeconomia? (What is genoeconomics?)*. Institut de Cultura de Barcelona. Festa de la Ciència 2009. (Barcelona).
62. June 2009. *150 anys de Darwinisme*? Ajuntament de Parets del Vallès. (Parets del Vallès, Spain)
63. May 2009. *150 anys de Darwinisme*? Omnium Cultural. (Mataró, Spain)
64. May 2009. *150 anys de Darwinisme*? ADENC. Associació per la Defensa i Estudi de la Natura (Sabadell, Spain)
65. April 2009. *Ni disseny ni intel·ligent: 150 anys de darwinisme*. Primeres Jornades de l'Herència de Darwin. Citilab. Plataforma Tercera Cultura (Barcelona)
66. March 2009. *150 anys de Darwinisme*? Hospital de Granollers. (Granollers, Spain)
67. October 2008. *Human genome variation and pharmacogenetics: general concepts, analysis tool and bioinformatics*. 18th Meeting of the European Society for Urological Research (ESUR) (Barcelona, Spain)
68. June 2008. *Què és la genoeconomia? (What is genoeconomics?)*. Institut de Cultura de Barcelona. Festa de la Ciència 2008. (Barcelona).

69. March 2008. *Copy Number Variation in Primates*. Department of Genome Sciences. University of Washington. (Seattle, USA)
70. February 2008. *Chromosomal Speciation and Molecular Evolution.* Ecole Normale Superieure (Lyon, France)
71. March 2007. *The molecular signature of chromosomal Speciation in Mammals.* Instituto Gulbenkian de Ciencias (Oeiras, Portugal)
72. March 2007. *Relationship between molecular and structural evolution.* University of Porto (Porto, Portugal)
73. February 2007. *The molecular signature of chromosomal Speciation in Mammals.* Department of Statistics (Oxford)
74. February 2007. *Evolutionary aspects of SNP diversity analysis*. Centro Nacional de Investigaciones Oncológicas (Madrid)
75. December 2006. *Inbreeding in universities world-wide*. Instituto Gulbenkian de Ciencias (Oeiras, Portugal)
76. November 2006. *SNP diversity analysis: from evolution to disease and back.* Centro Nacional de Investigaciones Oncológicas (Madrid)
77. November 2006. *SNP diversity analysis: from evolution to disease and back.*Jornadas de la Red Nacional de Bioinfromática 2006 (Zaragoza)
78. September 2006. *Herramientas Bioinformáticas para Estudios de Asociación*. Centro de Investigación del Cáncer (Salamanca)
79. July 2006 *El cervell social.* Primeres Jornades Cognicio i Evolucio. Universitat de Barcelona (Barcelona)
80. June 2006 *Herramientas Bioinformáticas para Estudios de Asociación*. Jornadas Españolas de Farmacigenética y Farmacogenómica. Centro de Estudios Principe Felipe, (Valencia)
81. May 2006. Genealogies and the Coalescent. (Centro de Estudios Principe Felipe, Valencia)
82. May 2006. *Herramientas Bioinformáticas para Estudios de Asociación*. (*Congreso de la Sociedad Española de Reumatologia,* Valencia)
83. March 2006. Chromosomal Evolution in Mammals. Departament de Biotecnologia. Universitat d'Alacant. (Alacant).
84. January 2006. Chromosomal Evolution in Mammals. Institut Cavanilles de Biodiversitat de Biologia Evolutiva. (Valencia).
85. September 2005. Farmacogenomics and the Haplotype Structure of the Human Genome. XXVIII Congreso de la Sociedad Española de Bioquímica y Biología Molecular. (Zaragoza)
86. May 2005. Cooperació o Egoisme: bases evolutives del comportament social. Bioconferències 2004-2005. Facultat de Ciències de la Salut i de la Vida. UPF (Barcelona).
87. August 2004. Chromosomal inversions and speciation. The UCSD/La Jolla Project for Explaining the Origin of Humans (LOH). University of California at San Diego/The Salk Institute.
88. February 2004. Chromosomal, molecular and gene expression evolution in primates. Trobada de la Xarxa Catalana de Genòmica i Proteòmica (Barcelona)
89. February 2004. Chromosomal speciation in primates Universita de Bari (Bari, Italia)
90. January 2004. Chromosomal evolution in mammals. University Pierre et Marie Curie (Paris, Francia)
91. December 2003. *¿Qué nos enseña el Genoma Humano sobre quienes somos?* Primer Congreso Iberico de Estudiantes de Biología. (Évora. Portugal).
92. October 2003. *Reorganizaciones cromosómicas y especiación en el linaje humano.* Universitat Autònoma de Barcelona (Bellaterra, Spain)

93. August 2003. Chromosomal speciation in primates. University of Chicago (USA)
94. August 2003. The footprint of specitation in the human genome. University of California in San Diego (San Diego, USA)
95. August 2003. Chromosomal evolution in mammals. University of Louisiana (Baton Rouge, USA).
96. July 2003. *Genes, behaviour and the origins of cooperation*. Curs de llenguatge, cognició i evolució. Universitat Internacional Menéndez Pelayo. Barcelona.
97. August 2002. *Què ens diu el Genoma Humà sobre qui som?.* Universitat Catalana d'Estiu. Prada de Conflent.
98. December 2001. *Què fer amb dades de tot el genoma? Coalescència i Múltiples loci.* Universitat de Barcelona. Centre Especial de Recerca en Taxonomia i Filogènia Moleculars. Barcelona.
99. September 2001. *Thinking about whole genome data: Neutral variability and multilocus balancing selection*. Universität Bern. Zoologisches Institut. Bern, Switzerland.
100. December 2001. *Què fer amb dades de tot el genoma? Coalescència i Múltiples loci.* Universitat de Barcelona. Centre Especial de Recerca en Taxonomia i Filogènia Moleculars. Barcelona.

MEETING ORGANIZATION

1. September 2022. GA4GH 10th Plenary Meeting. (Barcelona, Spain) Co-Chair of the Local Organizing Committee.
2. December 2019. The Impact of Genomics Data on Health. The role of the European Genome-phenome Archive (EGA). (Madrid, Spain). Chair of the Organizing Committee.
3. July 2016. Annual Meeting of the Society for Molecular Biology and Evolution (Gold Coast, Australia). Organization of the Symposium Structural variation in the light of new sequencing technologies.
4. March 2014. BIOSTEC 2014 (7th International Joint Conference on Biomedical Engineering Systems and Technologies). Member of the Organizing Committee (Angiers, France).
5. September 2013. *4th meeting of the Spanish Society for Evolutionary Biology (SESBE): Barcelona 2013*. (Barcelona, Spain). Chair of the Scientific and Organizing Committee.
6. DCEXS 2013
7. November 2010. *JNB'2010 Bioinformatics for Personalized Medicine* (Universidad de Málaga, Torremolinos, Málaga). Chair of the Scientific Committee.
8. November 2009. *JNB'2009. Challenges in Bioinformatics* (Fundaçao Callouste Gulbenkian, Lisbon). Chair of the Scientific Committee.
9. October 2009. *NGS2009. Conference on Next Generation Sequencing: Challenges and Opportunities.* (Hospital de Sant Pau, Barcelona). Member of the Scientific Committee. Member of the Organizing Committee.
10. November 2008. *ESF/NYAS meeting. Values and Empathy Across Social Barriers: A Neurocognitive Approach to Fairness*. (CosmoCaixa, Barcelona). Member of the Scientific Committee. Member of the Organizing Committee.
11. April 2008. *ESF meeting. Cooperation Through the Ages: The Social and Psychological Dynamics of Cooperation and Punishment*. (Sitges, Barcelona) Chair of the Scientific Committee. Chair of the Organizing Committee.
12. November 2007. *First workshop on Whole Genome Asociation Studies*. (PRBB, Barcelona). Chair of the Scientific Committee. Chair of the Organizing Committee.
13. November 2006. *XVI Seminario de Genética de Poblaciones y Evolución* (Sant Feliu de Guíxols, Girona). Member of the Scientific Committee. Member of the Organizing Committee.

14. September 2005. *European Conference on Computation Biology ECCB05* (Palacio de Congresos, Madrid). Member of the Scientific Committee, Area chair of the SNPs session.

REVIEWING and SERVICE

- Editorial Board Member of the journals *Evolution*, *Biology Letters*, *Bioinformatics* and *Apuntes de Ciencia y Tecnología*.
- Ad-hoc reviewer for several journals, the most frequent being Bioinformatics, BMC Genomics, Evolution, Genetics, Genetical Research, Genome Research, Journal of Molecular Evolution, Journal of Theoretical Biology, Nature, Nature Genetics, Science and Trends In Ecology and Evolution.
- Ad-hoc reviewer for national and international funding agencies, including ANEC, NERC, BBSRC (UK), NSF (USA) and NSF (Switzerland), RES -BSC (Red Española de Super-Computación / Barcelona Supercomputing Center)