



## Curriculum Vitae

### Personal information **Ainara Elorza**

#### Work experience

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1. Employer: Agencia Española de Medicamentos y Productos Sanitarios
  - Start date: 07-2024
  - End date:
  - Position: Non-Clinical Assessor
  - Activities: Evaluation of vaccines and advanced therapies medicinal products by Centralized, Decentralized, Mutual Recognition, National Authorization Procedures, EMA and National Scientific Advices and Clinical Trials.
  - Country: Spain
2. Employer: SYF GALENUS CENTER, S.L.
  - Start date: 09-2022
  - End date: 12-2022
  - Position: Tutor teacher and coordinator of Pathological Anatomy and Cytodiagnosis HNC and Clinical and Biomedical Laboratory HNC.
  - Activities: Students guiding and teaching of Gynaecological cytology, Molecular and cytogenetic biology, Laboratory general techniques and Clinical microbiology. Coordination of Pathological Anatomy and Cytodiagnosis HNC.
  - Country: Spain
3. Employer: Centro de Biología Molecular Severo Ochoa (CBMSO), National Research Council (CSIC) / CIBERNED
  - Start date: 09-2015
  - End date: 06-2021
  - Position: Postdoctoral Fellow (Juan de la Cierva\_Formation and Juan de la Cierva\_Experienced Researcher)
  - Activities: Identification of new therapeutic targets and biomarkers for Huntington Disease and other neurodegenerative diseases.
  - Country: Spain
4. Employer: Universidad Autónoma de Madrid
  - Start date: 01-2014
  - End date: 08-2015
  - Position: Postdoctoral Researcher
  - Activities: Characterization of the role of hypoxia-inducible factors in cellular metabolism.
  - Country: Spain
5. Employer: Institut for Research Hospital Vall d'Hebron, Barcelona
  - Start date: 06-2013
  - End date: 12-2013
  - Position: Visiting Postdoctoral Fellow
  - Activities: Characterization of remote preconditioning in cardiac ischemic-reperfusion mice models.
  - Country: Spain
6. Employer: Instituto de Investigación Sanitaria La Princesa
  - Start date: 01-2011
  - End date: 01-2014
  - Position: Predoctoral Fellow (Río Hortega Researcher)
  - Activities: Characterization of the role of hypoxia-inducible factors in the pathophysiology of cancer.
  - Country: Spain
7. Employer: Universidad Autónoma de Madrid
  - Start date: 06-2008
  - End date: 01-2011
  - Position: Predoctoral Researcher
  - Activities: Characterization of the role of hypoxia in inflammation.
  - Country: Spain
8. Employer: Center of Transgene Technology and Gene Therapy, Interuniversity Institute for Biotechnology (VIB)
  - Start date: 09-2007
  - End date: 12-2007
  - Position: Visiting Predoctoral Fellow
  - Activities: Generation of transgenic mice
  - Country: Belgium
9. Employer: Hospital Universitario de La Princesa
  - Start date: 06-2004
  - End date: 05-2008
  - Position: Biochemist Resident (BIR) in Immunology
  - Activities: Autoimmunity, Allergy, Tiroide diseases, Hematologic diseases and Genetic disorders. Testing, validation and interpretation.
  - Country: Spain

#### Education and training

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1. Subject: Universidad Autónoma de Madrid
  - Start date: 06-2008
  - End date: 10-2013
  - Qualification: PhD Immunology
  - Country: Spain
2. Subject: Ministry of Health
  - Start date: 06-2004
  - End date: 05-2008
  - Qualification: Clinical Immunologist
  - Country: Spain
3. Subject: Universidad Complutense de Madrid
  - Start date: 09-1996
  - End date: 06-2003
  - Qualification: BsC in Biochemistry
  - Country: Spain

## Additional information

### Publications

- Ollà I, Pardiñas AF, Parras A, Hernández IH, Santos-Galindo M, Picó S, Callado LF, **Elorza A**, Rodríguez-López C, Fernández-Miranda G, Belloc E, Walters JTR, O'Donovan MC, Méndez R, Toma C, Meana JJ, Owen MJ, Lucas JJ. Pathogenic Mis-splicing of CPEB4 in Schizophrenia. *Biol Psychiatry*. 2023 Aug 15;94(4):341-351. doi: 10.1016/j.biopsych.2023.03.010. Epub 2023 Mar 22. PMID: 36958377
- Picó S, Parras A, Santos-Galindo M, Pose-Utrilla J, Castro M, Fraga E, Hernández IH, **Elorza A**, Anta H, Wang N, Martí-Sánchez L, Belloc E, García-Esparcia P, Garrido JJ, Ferrer I, Macías-García D, Mir P, Artuch R, Pérez B, Hernández F, Navarro P, López-Sendón JL, Iglesias T, Yang XW, Méndez R, Lucas JJ. CPEB alteration and aberrant transcriptome-polyadenylation lead to a treatable SLC19A3 deficiency in Huntington's disease. *Sci Transl Med*. 2021 Sep 29;13(613):eabe7104. doi: 10.1126/scitranslmed.abe7104. Epub 2021 Sep 29. PMID: 34586830
- **Elorza A**, Márquez Y, Cabrera JR, Sánchez-Trincado JL, Santos-Galindo M, Hernández IH, Picó S, Díaz-Hernández JI, García-Escudero R, Irimia M, Lucas JJ. Huntington's disease-specific mis-splicing unveils key effector genes and altered splicing factors. *Brain*. 2021 Aug 17;144(7):2009-2023. doi: 10.1093/brain/awab087. PMID: 33725094
- Ollà I, Santos-Galindo M, **Elorza A**, Lucas JJ. P2X7 Receptor Upregulation in Huntington's Disease Brains. *P2X7 Receptor Upregulation in Huntington's Disease Brains*. *Front Mol Neurosci*. 2020 Oct 6;13:567430. doi: 10.3389/fnmol.2020.567430. eCollection 2020. PMID: 33122998
- Meléndez-Rodríguez F, Urrutia AA, Lorendeau D, Rinaldi G, Roche O, Böğürçü-Seidel N, Ortega Muelas M, Mesa-Ciller C, Turiel G, Bouthelie A, Hernansanz-Agustín P, **Elorza A**, Escasany E, Li QOY, Torres-Capelli M, Tello D, Fuertes E, Fraga E, Martínez-Ruiz A, Pérez B, Giménez-Bachs JM, Salinas-Sánchez AS, Acker T, Sánchez Prieto R, Fendt SM, De Bock K, Aragonés J. HIF1 $\alpha$  Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis. *Cell Rep*. 2019 Feb 26;26(9):2257-2265.e4. doi: 10.1016/j.celrep.2019.01.106. PMID: 30811976
- Parras A, Anta H, Santos-Galindo M, Swarup V, **Elorza A**, Nieto-González JL, Picó S, Hernández IH, Díaz-Hernández JI, Belloc E, Rodolosse A, Parikshak NN, Peñagarikano O, Fernández-Chacón R, Irimia M, Navarro P, Geschwind DH, Méndez R, Lucas JJ. Autism-like phenotype and risk gene mRNA deadenylation by CPEB4 mis-splicing. *Nature*. 2018 Aug;560(7719):441-446. doi: 10.1038/s41586-018-0423-5. Epub 2018 Aug 15. PMID: 30111840
- Soro-Arnaiz I, Li QOY, Torres-Capelli M, Meléndez-Rodríguez F, Veiga S, Veys K, Sebastian D, **Elorza A**, Tello D, Hernansanz-Agustín P, Cogliati S, Moreno-Navarrete JM, Balsa E, Fuertes E, Romanos E, Martínez-Ruiz A, Enríquez JA, Fernandez-Real JM, Zorzano A, De Bock K, Aragonés J. Role of Mitochondrial Complex IV in Age-Dependent Obesity. *Cell Rep*. 2016 Sep 13;16(11):2991-3002. doi: 10.1016/j.celrep.2016.08.041. PMID: 27626667
- **Elorza A**, Soro-Arnáiz I, Meléndez-Rodríguez F, Rodríguez-Vaello V, Marsboom G, de Cárcer G, Acosta-Iborra B, Albacete-Albacete L, Ordóñez A, Serrano-Oviedo L, Giménez-Bachs JM, Vara-Vega A, Salinas A, Sánchez-Prieto R, Martín del Río R, Sánchez-Madrid F, Malumbres M, Landázuri MO, Aragonés J. HIF2 $\alpha$  acts as an mTORC1 activator through the amino acid carrier SLC7A5. *Mol Cell*. 2012 Dec 14;48(5):681-91. doi: 10.1016/j.molcel.2012.09.017. Epub 2012 Oct 25. PMID: 23103253
- Tello D, Balsa E, Acosta-Iborra B, Fuertes-Yebra E, **Elorza A**, Ordóñez Á, Corral-Escariz M, Soro I, López-Bernardo E, Perales-Clemente E, Martínez-Ruiz A, Enríquez JA, Aragonés J, Cadenas S, Landázuri MO. Induction of the mitochondrial NDUFA4L2 protein by HIF-1 $\alpha$  decreases oxygen consumption by inhibiting Complex I activity. *Cell Metab*. 2011 Dec 7;14(6):768-79. doi: 10.1016/j.cmet.2011.10.008. Epub 2011 Nov 17. PMID: 22100406
- Miró-Murillo M, **Elorza A**, Soro-Arnáiz I, Albacete-Albacete L, Ordoñez A, Balsa E, Vara-Vega A, Vázquez S, Fuertes E, Fernández-Criado C, Landázuri MO, Aragonés J. Acute Vhl gene inactivation induces cardiac HIF-dependent erythropoietin gene expression. *PLoS One*. 2011;6(7):e22589. doi: 10.1371/journal.pone.0022589. Epub 2011 Jul 21. PMID: 21811636
- Aragonés J, **Elorza A**, Acosta-Iborra B, Landázuri MO. Myeloid hypoxia-inducible factors in inflammatory diseases. *Crit Rev Immunol*. 2011;31(1):1-13. doi: 10.1615/critrevimmunol.v31.i1.10. PMID: 21395507. Review.
- Acosta-Iborra B\*, **Elorza A\***, Olazabal IM, Martín-Cofreces NB, Martín-Puig S, Miró M, Calzada MJ, Aragonés J, Sánchez-Madrid F, Landázuri MO. Macrophage oxygen sensing modulates antigen presentation and phagocytic functions involving IFN-gamma production through the HIF-1 alpha transcription factor. *J Immunol*. 2009 Mar 1;182(5):3155-64. doi:10.4049/jimmunol.0801710. PMID: 19234213 \*Both authors contributed equally to the work.

### Projects

### Memberships

### Other Relevant Information