

**Part A. PERSONAL INFORMATION**

**CV date**

March 24<sup>th</sup>,  
2025

First and Family name	Enrique Lanuza	
Researcher codes	WoS Researcher ID (*)	C-4068-2009
	SCOPUS Author ID(*)	6701357489
	Open Researcher and Contributor ID (ORCID) **	0000-0001-9498-7966

(\*) At least one of these is mandatory. (\*\*) Mandatory

**A.1. Current position**

Name of Institution	Universitat de València		
Department	Dept. de Biologia Cel·lular/Fac. de CC. Biològiques		
Address and Country	C/ Dr. Moliner, 50. CP 46100 Burjassot (València)		
Phone number	+34963543383	E-mail	<a href="mailto:Enrique.Lanuza@uv.es">Enrique.Lanuza@uv.es</a>
Current position	Full Professor (Catedrático de Universidad)	From	Nov 12 <sup>th</sup> , 2020
Key words	amygdala; vomeronasal; pheromones; neuroanatomy; behaviour		

**A.2. Education**

PhD	University	Year
Biological Sciences	Universitat de València	1997

**A.3. JCR articles, h Index, thesis supervised...**

Number of 6-year research periods (sexenios): 4 (last one 2015-2020)

Publications in Web of Science: 83

H index: 34 in Web of Science (core collection); 37 in Scopus; 42 in Google Scholar.

Thesis supervised: 11

Total number of citations: 2691 in Web of Science; 3028 in Scopus; 4412 in Google Scholar

**Part B. CV SUMMARY (max. 3500 characters, including spaces)**

Graduate in Biological Sciences from the University of València (1993), and PhD obtained in the same University in 1997, on comparative and evolutionary neurobiology, under the supervision of Fernando Martínez-García (Univ. of València) and Mimi Halpern (State University of New York). Predoctoral grant from "la Caixa Foundation" at the State University of New York (1995-1997). Postdoctoral training at the laboratory of Joseph E. LeDoux (Center for Neural Science, New York University), with a Fulbright Fellowship (1999). Appointed Assistant Professor of the Dept. of Cell Biology of the Univ. of València in 2000, Associate Professor in 2002, and Full Professor since 2020. His research focuses on neural circuits underlying social and sexual behaviors, such as sexual attraction, aggression and maternal behavior, in which the amygdala plays a critical role. More than 80 papers or book chapters indexed in the Web of Science, and key book chapters about the amygdala structure and function in the reference Elsevier books "The Rat Nervous System 4th ed" and "The Mouse Nervous System" edited by G. Paxinos, and about the evolution of the amygdala in the reference book "Evolutionary Neuroscience", edited by Jon H Kaas (Academic Press). Currently Director of the Neuroscience PhD Programme of the University of Valencia, and Vicepresident of the Spanish Network for Research on Olfaction.

**Part C. RELEVANT MERITS**

**C.1. Publications (including books)**

1. Abellán-Álvaro M, Martínez-García F, **Lanuza E**, Agustín-Pavón C. Inhibition of the medial amygdala disrupts escalated aggression in lactating female mice after repeated exposure to male intruders. **Comm Biol.** **2022**; 5:980.
2. Pardo-Bellver C, Vila-Martín ME, Martínez-Bellver S, Villafranca-Faus M, Teruel-Sanchis A, Savarelli-Balsamo C, Drabik S, Martínez-Ricós J, Cervera-Ferri A, Martínez-García F, **Lanuza E**,

- Teruel-Martí V. Neural activity patterns in the chemosensory network encoding vomeronasal and olfactory information in mice. **Front. Neuroanat.** **2022**; 16:988015. doi: 10.3389/fnana.2022.988015
3. Torres-Pérez JV, Martínez-Rodríguez E, Forte Deltell A, Blanco C, Stork O, **Lanuza E**, Santos M, Agustín-Pavón C. Early life stress exacerbates behavioural and neuronal alterations in adolescent male mice lacking MeCP2. **Front. Behav. Neurosci.** **2022**; 16:974692. doi: 10.3389/fnbeh.2022.974692
  4. Navarro-Moreno C, Barneo-Muñoz M, Ibáñez-Gual MV, **Lanuza E**, Agustín-Pavón C, Sánchez-Catalán MJ, Martínez-García F. Becoming a mother shifts the activity of the social and motivation brain networks in mice. **iScience.** **2022**; 25(7):104525. doi: 10.1016/j.isci.2022.104525.
  5. Planche V, Manjon JV, Mansencal B, **Lanuza E**, Tourdias T, Catheline G, Coupé P. Structural progression of Alzheimer's disease over decades: the MRI staging scheme. **Brain Commun.** **2022**; 4(3):fcac109. doi: 10.1093/braincomms/fcac109.
  6. Villafranca-Faus M, Vila-Martín ME, Esteve D, Merino E, Teruel-Sanchis A, Cervera-Ferri A, Martínez-Ricós J, Lloret A, **Lanuza E**, Teruel-Martí V. Integrating pheromonal and spatial information in the amygdalo-hippocampal network. **Nat Commun.** **2021**; 12(1):5286. doi: 10.1038/s41467-021-25442-5.
  7. Abellán-Álvaro M, Ayala G, Barneo-Muñoz M, Martínez-García F, Agustín-Pavón C, **Lanuza E**. Motherhood-induced gene expression in the mouse medial amygdala: Changes induced by pregnancy and lactation but not by pup stimuli. **FASEB J.** **2021**; 35(9):e21806. doi: 10.1096/fj.202100163RR.
  8. Salais-López H, Abellán-Álvaro M, Bellés M, **Lanuza E**, Agustín-Pavón C, Martínez-García F. Maternal Motivation: Exploring the Roles of Prolactin and Pup Stimuli. **Neuroendocrinology.** **2021**; 111(9):805-830. doi: 10.1159/000510038.
  9. Navarro-Moreno C, Sanchez-Catalan MJ, Barneo-Muñoz M, Goterris-Cerisuelo R, Belles M, **Lanuza E**, Agustín-Pavón C, Martínez-García F. Pregnancy Changes the Response of the Vomeronasal and Olfactory Systems to Pups in Mice. **Front Cell Neurosci.** **2020**; 14:593309. doi: 10.3389/fncel.2020.593309.
  10. Martínez-Rodríguez E, Martín-Sánchez A, Kul E, Bose A, Martínez-Martínez FJ, Stork O, Martínez-García F, **Lanuza E**, Santos M, Agustín-Pavón C. Male-specific features are reduced in Mecp2-null mice: analyses of vasopressinergic innervation, pheromone production and social behaviour. **Brain Struct Funct.** **2020**; 225:2219-2238. doi: 10.1007/s00429-020-02122-6.
  11. Martínez-Rodríguez E, Martín-Sánchez A, Coviello S, Foiani C, Kul E, Stork O, Martínez-García F, Nacher J, **Lanuza E**, Santos M, Agustín-Pavón C. Lack of MeCP2 leads to region-specific increase of doublecortin in the olfactory system. **Brain Struct Funct.** **2019**; 224:1647-1658. doi: 10.1007/s00429-019-01860-6.
  12. Coupé P, Manjón JV, **Lanuza E**, Catheline G. Lifespan changes of the human brain in Alzheimer's disease. **Sci Rep.** **2019** Mar 8; 9(1):3998. doi: 10.1038/s41598-019-39809-8.
  13. Martínez-García F, **Lanuza E**. Evolution of vertebrate survival circuits. **Curr. Op. Behav. Sci.** **2018** Dec; 24:113-123. DOI: 10.1016/j.cobeha.2018.06.012
  14. Pardo-Bellver C, Martínez-Bellver S, Martínez-García F, **Lanuza E**, Teruel-Martí V. Synchronized activity in the main and accessory olfactory bulbs and vomeronasal amygdala elicited by chemical signals in freely behaving mice. **Sci Rep.** **2017** Aug 30; 7:9924. doi: 10.1038/s41598-017-10089-4
  15. Cádiz-Moretti B, Abellán-Álvaro M, Pardo-Bellver C, Martínez-García F, **Lanuza E**. Afferent and efferent projections of the anterior cortical amygdaloid nucleus in the mouse. **J Comp Neurol.** **2017** Sep 1; 525(13):2929-2954. doi: 10.1002/cne.24248
  16. Coupé P, Catheline G, **Lanuza E**, Manjón JV; Alzheimer's Disease Neuroimaging Initiative. Towards a unified analysis of brain maturation and aging across the entire lifespan: A MRI analysis. **Hum Brain Mapp.** **2017**; 38(11):5501-5518. doi: 10.1002/hbm.23743. Epub 2017 Jul 24.
  17. Cádiz-Moretti B, Otero-García M, Martínez-García F, **Lanuza E**. Afferent projections to the different medial amygdala subdivisions: a retrograde tracing study in the mouse. **Brain Struct Funct.** **2016** Mar; 221(2):1033-65. Doi: 10.1007/s00429-014-0954-y

#### Book chapters:

1: Francisco E. Olucha-Bordonau, Lluís Fortes-Marco, Marcos Otero-García, **Enrique Lanuza** and Fernando Martínez-García (2014) Chapter 18 - Amygdala: Structure and Function, In **The Rat Nervous System (Fourth Edition)**, edited by **George Paxinos**, Academic Press, San Diego, 2015, Pages 441-490, ISBN 9780123742452, <http://dx.doi.org/10.1016/B978-0-12-374245-2.00018-8>.

2: Fernando Martínez-García, Amparo Novejarque, Nicolás Gutiérrez-Castellanos and **Enrique Lanuza** (2012) Chapter 6 - Piriform Cortex and Amygdala, In **The Mouse Nervous System**, edited by **Charles Watson, George Paxinos, Luis Puelles**, Academic Press, San Diego, 2012, Pages 140-172, ISBN 9780123694973, <http://dx.doi.org/10.1016/B978-0-12-369497-3.10006-8>.

3: F. Martínez-García, A. Novejarque and **E. Lanuza** (2009) Evolution of the Amygdala in Vertebrates, In **Evolutionary Neuroscience**, edited by **Jon H. Kaas**, Academic Press, Oxford, 2009, Pages 313-392, ISBN 978-0-12-375080-8, <https://www.elsevier.com/books/evolutionary-neuroscience/kaas/978-0-12-375080-8>

## C.2. Research projects and grants

**1) Title:** Integración de memoria social y espacial en los circuitos amigdalohipocámpales en ratones

**Institutions participating:** Universitat de València

**Principal Investigators (co-IPs):** Enrique Lanuza Navarro and Vicent Teruel Martí

**Funding Institutions:** Ministerio de Ciencia e Innovación. **Code:** PID2019-108562GB-I00

**Duration:** Jun-2020 to Jun-2023. **Amount:** 119.790 €.

**2) Title:** Red Olfativa Española

**Institutions participating:** Instituto Cajal (CSIC), Universitat de València y otras

**Principal Investigator:** Laura López Mascaraque (Instituto Cajal, CSIC)

**Funding Institutions:** Ministerio de Ciencia, Innovación y Universidades. Acciones de Dinamización "Redes de Investigación" **Code:** RED2018-102662-T

**Duration:** 2020-2021 (both included). **Amount:** 17.000 €.

**3) Title:** The endocannabinoid system and Rett Syndrome: neuroanatomical, neurochemical and behavioural analyses

**Institutions participating:** Universitat de València

**Principal Investigator:** Carmen Agustín Pavón

**Funding Institutions:** Fondo para la Investigación del Síndrome de Rett **Code:** Ayudas FinRett 2019

**Duration:** 2019-2020. **Amount:** 33.839 €.

**4) Title:** Circuitos neurales de la atracción por feromonas sexuales y aversión por señales de enfermedad: Un estudio anatómico, electrofisiológico y comportamental

**Institutions participating:** Universitat de València

**Principal Investigators (co-IPs):** Enrique Lanuza Navarro and Vicent Teruel Martí

**Funding Institution:** MINECO Ministerio de Economía y Competitividad. **Code:** BFU2016-77691-C2-2-P

**Duration:** 2017-2019 (both included). **Amount:** 127.050 €.

**5) Title:** The maternal brain of rodents as a model for the control of aggressiveness. Roles of prolactin and oxytocin neurotransmission.

**Institutions participating:** Universitat Jaume I de Castellón and Universitat de València

**Principal Investigator:** Fernando Martínez García

**Funding Institutions:** CONSELLERIA D'EDUCACIÓ, INVESTIGACIÓ, CULTURA I ESPORT; DIRECCIÓ GENERAL D'UNIVERSITAT, INVESTIGACIÓ I CIÈNCIA. **Code:** PROMETEO2016-076

**Duration:** 2016-2019 (both included). **Amount:** 290.471 €.

**6) Title:** Señales vomeronasales y control amigdalino del comportamiento sociosexual: un modelo experimental de la neurobiología del comportamiento social y sus alteraciones.

**Institutions participating:** Universitat de València

**Principal Investigators (co-IPs):** Enrique Lanuza Navarro and Fernando Martínez García

**Funding Institutions:** Ministerio de Economía y Competitividad **Code:** BFU2013-47688-P

**Duration:** 2014-2016 (both included). **Amount:** 125.000,00€

**7) Title:** NEURONLINE: Creating on-line educational resource for a Life Long Learning Master of Neuroscience.

**Institutions participating:** Universitat de València, Université de Bordeaux, and others

**Principal Investigator:** Marc Landry, Université de Bordeaux

**Funding Institutions:** UE. **Code:** Erasmus-plus, key action 2 "Strategic Partnership" Project Reference: 2015-1-FR01-KA203-015298

**Duration:** 2015-2019. **Amount:** 410.099 €

**8) Title:** NEUREN - Neuroscience Research Exchange Network.

**Institutions participating:** Universitat de València, Université de Bordeaux, and others

**Principal Investigator:** Marc Landry, Université Victor Segalen Bordeaux II

**Funding Institutions:** UE - FP7-PEOPLE-2012-IRSES. **Code:** MC-IRSES-318997

**Duration:** 2013-2016. **Amount:** 302.700

### **C.3. Thesis supervised since 2020, with resulting papers and academic trajectory of the Doctors trained in the group**

1. *Title:* Neural circuits for social recognition in mice: a neuroanatomical, behavioural and electrophysiological study. Full text link: <https://hdl.handle.net/10550/99768>

*Author:* **Vila Martín, Manuel Esteban**

*University:* Universitat de València. *Facultad:* Facultat de Ciències Biològiques

*Year:* 2024 *Qualification:* Sobresaliente cum laude. Thesis with international mention.

*Supervisors:* Vicent Teruel Martí / Enrique Lanuza Navarro

*Papers derived from the thesis:* Villafranca-Faus, Vila-Martín et al. *Nat Commun.* 2021;12:5286.

Pardo-Bellver, Vila-Martín et al., 2022 *Front Neuroanat.* 2022; 16:988015.

2. *Title:* Influencia de los estímulos olfativos en la configuración del mapa cognitivo hipocámpico. Full text link: <https://hdl.handle.net/10550/84951>

*Author:* **Villafranca Faus, María**

*University:* Universitat de València. *Facultad:* Facultat de Ciències Biològiques

*Year:* 2022 *Qualification:* Sobresaliente cum laude.

*Supervisors:* Vicent Teruel Martí / Enrique Lanuza Navarro

*Papers derived from the thesis:* Villafranca-Faus et al. *Nat Commun.* 2021; 12:5286. Pardo-Bellver et al., *Front Neuroanat.* 2022; 16:988015.

Maria Villafranca is currently a postdoctoral researcher at the Achúcarro Basque Neuroscience Center (Bilbao, SPAIN).

3. *Title:* The medial amygdala as a key neural centre in maternal aggression: genetic, neural and behavioural analyses. Full text link: <https://roderic.uv.es/handle/10550/72955>

*Author:* **Abellán Álvaro, María**

*University:* Universitat de València. *Facultad:* Facultat de Ciències Biològiques

*Year:* 2020 *Qualification:* Sobresaliente cum laude. Thesis with international mention.

*Supervisors:* Enrique Lanuza Navarro / Carmen Agustín Pavón

*Papers derived from the thesis:* FASEB J 2021, 35:e21806; *Comm Biol* 2022; 5:980; *Collaborations:* *Front Neuroanat* 2016, 10:125; *J Comp Neurol* 2017, 525:2929-54; *Neuroendocrinol* 2021, 111:805-30.

Maria Abellan is currently a postdoctoral researcher at the University Jaume I (Castelló, SPAIN).

### **C.4. Awards**

Extraordinary Doctorate Award, University of València, 1998