

## BIOGRAPHICAL SKETCH

Provide the following information for the proposed network coordinators and members  
Follow this format for each person.

<p>NAME</p> <p><b>de la Pompa, José Luis</b> jlpompa@cnic.es</p>	<p>POSITION TITLE</p> <p>Full Professor, Vascular pathophysiology Area Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain <a href="https://www.cnic.es/en/investigacion/intercellular-signaling-cardiovascular-development-and-disease">https://www.cnic.es/en/investigacion/intercellular-signaling-cardiovascular-development-and-disease</a> Scopus H-index: 43. Total cites: 10876 (Scopus). Researcher ID: F-9719-2014</p>
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EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Complutense University (UCM), Madrid, Spain	B.S.	1980-85	Biology
Autónoma University of Madrid (UAM), Madrid. Spain	Ph.D. (A. Ferrús)	1986-90	<i>Drosophila</i> developmental genetics (muscle and CNS)
EMBL, Heidelberg, Germany	Postdoctoral training (Dr. R. Zeller)	1990-94	Developmental biology (chick limb development)
Ontario Cancer Institute, Toronto Canada	Postdoctoral training (Dr. T.W. Mak)	1994-97	Developmental biology and cancer (mouse)

### A. Positions and Honors (chronological order)

#### Positions

May 1997-Feb. 1999	Staff Scientist. Amgen Institute, Toronto, Ontario (CANADA).
March-Dec. 1999	Group Leader. European Molecular Biology Laboratory (EMBL), Mouse Biology Programme at Monterotondo Rome (ITALY).
Jan-Dec. 2000	Associate Professor. Center for Aging and Developmental Biology. University of Rochester School of Medicine. Rochester, NY. (USA).
Jan. 2001-Aug. 2003	Investigator. Head of the Molecular Oncology Department, Institute for Oncologic Research. Barcelona (SPAIN).
Sept. 2003-Dec. 2009	Investigator. Department of Immunology and Oncology, National Center of Biotechnology, CSIC. Madrid (SPAIN).
Jan. 2010-Dec 2014	Senior Investigator. Department of Cardiovascular Developmental Biology, CNIC, Madrid (SPAIN).
Jan. 2011-Dec 2014	Program Coordinator. Cardiovascular Developmental Biology Program. Department of Cardiovascular Development and Repair, CNIC, Madrid (SPAIN).
Jan 2015-present	Senior Investigator. Head of the laboratory: Intercellular Signaling in Cardiovascular Development and Disease

#### Honors

1986	Predocctoral Fellowship (MEC: Ministry of Education and Science).
1990	Award for best thesis, Caja de Ahorros y Monte de Piedad de Madrid
1990	Postdoctoral Fellowship, Ministry of Education and Science (MEC)
1992	EMBO Postdoctoral Fellowship
1999	Member of the Governing Board for the EMBL: Mouse Biology Program, Monterotondo, IT
2001	Head of the Molecular Oncology Department, Institut Recerca Oncològica (IRO)
2007	Member of the International Society for Heart Research (ISHR)
2010	Nucleus Member of the ESC Working Group on Developmental Anatomy and Pathology
2011	Cardiovascular Developmental Biology Program Coordinator. Department of Cardiovascular Development and Repair, CNIC
2014	Chair of the Organising Committee of the International Weinstein Conference on cardiac development held in Madrid (Spain).
2018	Nucleus Member of the ESC Working Group on Developmental Anatomy and Pathology

## B. Publications

a. Scopus H-index: 43. Total cites: 10876 (Scopus). Researcher ID: F-9719-2014

### b. 5 more important publications. Please insert hyperlink to the online publication

1. MacGrogan D, D'Amato G, Travisano S, Martínez-Poveda B, Luxán G, Del Monte-Nieto G, Papoutsis T, Sbroggio M, Bou V, Gomez-Del Arco P, Gómez MJ, Zhou B, Redondo JM, Jiménez-Borreguero LJ, **de la Pompa JL** (2016). [Sequential Ligand-Dependent Notch Signaling Activation Regulates Valve Primordium Formation and Morphogenesis](#). *Circ Res*. 118(10):1480-97. PMID: 27056911
2. D'Amato G, Luxán G, del Monte-Nieto G, Martínez-Poveda B, Torroja C, Walter W, Bochter MS, Benedito R, Cole S, Martinez F, Hadjantonakis AK, Uemura A, Jiménez-Borreguero LJ, **de la Pompa JL**. (2016). [Sequential Notch activation regulates ventricular chamber development](#). *Nat Cell Biol*. 18(1):7-20. PMID: 26641715
3. Luxán G, Casanova JC, Martínez-Poveda B, Prados B, D'Amato G, MacGrogan D, Gonzalez-Rajal A, Dobarro D, Torroja C, Martinez F, Izquierdo-García JL, Fernández-Friera L, Sabater-Molina M, Kong YY, Pizarro G, Ibañez B, Medrano C, García-Pavía P, Gimeno JR, Monserrat L, Jiménez-Borreguero LJ, **de la Pompa JL**. (2013). [Mutations in the NOTCH pathway regulator MIB1 cause left ventricular noncompaction cardiomyopathy](#). *Nat Med*. 19(2):193-201. PMID: 23314057
4. Luna-Zurita L, Prados B, Grego-Bessa J, Luxán G, del Monte G, Benguría A, Adams RH, Pérez-Pomares JM, **de la Pompa JL**. (2010). [Integration of a Notch-dependent mesenchymal gene program and Bmp2-driven cell invasiveness regulates murine cardiac valve formation](#). *J Clin Invest*. 120(10):3493-507. PMID: 20890042
5. Grego-Bessa J, Luna-Zurita L, del Monte G, Bolós V, Melgar P, Arandilla A, Garratt AN, Zang H, Mukoyama YS, Chen H, Shou W, Ballestar E, Esteller M, Rojas A, Pérez-Pomares JM, **de la Pompa JL**. (2007). [Notch signaling is essential for ventricular chamber development](#). *Dev Cell*. 12(3):415-29. PMID: 17336907

### c. 10 publications related to the proposed network program. Please insert hyperlink to the online publication.

1. Eley L, Alqahtani AM, MacGrogan D, Richardson RV, Murphy L, Salguero-Jimenez A, Sintez Rodriguez San Pedro M, Tiurma S, McCutcheon L, Gilmore A, **de La Pompa JL**, Chaudhry B, Henderson DJ. (2018). [A novel source of arterial valve cells linked to bicuspid aortic valve without raphe in mice](#). *Elife*. Jun 29;7. pii: e34110. PMID: 29956664
2. Papoutsis T, Luna-Zurita L, Prados B, Zaffran S, **de la Pompa JL**. (2018). [Bmp2 and Notch cooperate to pattern the embryonic endocardium](#). *Development*. Jul 2;145(13). pii: dev163378. PMID: 29853617
3. Münch J, Grivas D, González-Rajal Á, Torregrosa-Carrión R, **de la Pompa JL**. (2017). [Notch signalling restricts inflammation and \*serpine1\* expression in the dynamic endocardium of the regenerating zebrafish heart](#). *Development*. (8):1425-1440. PMID: 28242613
4. MacGrogan D, D'Amato G, Travisano S, Martínez-Poveda B, Luxán G, Del Monte-Nieto G, Papoutsis T, Sbroggio M, Bou V, Gomez-Del Arco P, Gómez MJ, Zhou B, Redondo JM, Jiménez-Borreguero LJ, **de la Pompa JL**. (2016). [Sequential Ligand-Dependent Notch Signaling Activation Regulates Valve Primordium Formation and Morphogenesis](#). *Circ Res*. 118(10):1480-97. PMID: 27056911.
5. Luxán G, D'Amato G, MacGrogan D, **de la Pompa JL**. (2016). [Endocardial Notch Signaling in Cardiac Development and Disease](#). *Circ Res*. 118(1):e1-e18. Review. PMID: 26635389.
6. MacGrogan D, Luxán G, Driessen-Mol A, Bouten C, Baaijens F, **de la Pompa JL**. (2014). [How to make a heart valve: from embryonic development to bioengineering of living valve substitutes](#). *Cold Spring Harb Perspect Med*. 4(11):a013912. Review. PMID: 25368013
7. **de la Pompa JL**, Epstein JA. (2012). [Coordinating tissue interactions: Notch signaling in cardiac development and disease](#). *Dev Cell*. 22(2):244-54. Review. PMID: 22340493
8. Nus M, MacGrogan D, Martínez-Poveda B, Benito Y, Casanova JC, Fernández-Avilés F, Bermejo J, **de la Pompa JL**. (2011). [Diet-induced aortic valve disease in mice haploinsufficient for the Notch pathway effector RBPJK/CSL](#). *Arterioscler Thromb Vasc Biol*. 31(7):1580-8. PMID: 21493891
9. Luna-Zurita L, Prados B, Grego-Bessa J, Luxán G, del Monte G, Benguría A, Adams RH, Pérez-Pomares JM, **de la Pompa JL**. (2010) [Integration of a Notch-dependent mesenchymal gene program and Bmp2-driven cell invasiveness regulates murine cardiac valve formation](#). *J Clin Invest*. 120(10):3493-507. PMID: 20890042
10. Timmerman LA, Grego-Bessa J, Raya A, Bertrán E, Pérez-Pomares JM, Díez J, Aranda S, Palomo S, McCormick F, Izpisua-Belmonte JC, **de la Pompa JL**. (2004). [Notch promotes epithelial-mesenchymal transition during cardiac development and oncogenic transformation](#). *Genes Dev*. 18(1):99-115. PMID: 14701881

## C. Current grant support.

- Spanish Ministry of Economy, Industry and Competitiveness (MEIC). Ref.: SAF2016-78370-R.
- Spanish Networks for Cell Therapy and Cardiovascular Research. Ref.: RD16/0011/0021. 2017-2021.
- CIBER Cardiovascular. Ref.: CB16/11/00399. 2017-2021.
- Grant from the Foundation La Marató (2016-19).
- Grant from the Foundation FBBVA (2015-18). Ref.: BIO14\_298.

## D. Previous experience in collaborative research

I have participated as PI in the following international collaborative research grants:

- CardioNet- International Training Network on the Cellular and Molecular Bases of Heart Homeostasis and Repair*. Agency: European Union, ref. 28600, 2012-2015.
  - Notch signaling in development and pathology*. Agency: EU FP7, Initial Training Network, ref. 215761, 2009-2012.
  - Heart Failure and Cardiac Repair*. Agency: EU FP6-2004-LIFESHEALTH-5, ref. LSHM-CT-2005-018630, 2005-2010.
- As invited researcher (without allocated budget), attending the annual meetings:
- Mitral Valve Disease: From Genetic Mechanisms to Improved Repair*. Agency: Fondation Leducq. 2007-2011.