

# CV

**Family name:** López-Redondo      **First name:** Fernando

**Birthdate/place:** 10 May 1961; Madrid, Spain.

**Position:** Parttimer I Research Support. Center for Life Science Technologies. Division Genomic Technologies, Cell Conversion Technology Unit (RIKEN)

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## EDUCATION

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1979-1985      BS, Complutense University of Madrid. Faculty of Biological Sciences. Madrid, Spain.  
1985-1988      Complutense University of Madrid. Diploma Minor Thesis. (Equivalent to Master degree).  
1985-1988      Master in Informatics. Pontifical Univ. of Salamanca, Faculty of Political Sciences and Sociology. Madrid, Spain.  
1988-1991      PhD, Complutense University of Madrid. Dept Physiology, Program of Pharmacology.

## RESEARCH EXPERIENCE

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1985-1991      Complutense University of Madrid. Research Student. PhD Studentship.  
1986-1990      Complutense University of Madrid. Dept Pharmacology. Chief Technician.  
1991-1993      Tokyo Medical and Dental University. Med Res Institute. Japanese Ministry of Education, Science, Culture and Sports (Mombusho) Fellowship for foreign research students.  
1993-1995      Spanish Scientific Research Council (CSIC). Joint Center Institute of Pharmacology and Toxicology-Dep. Pharmacology, Complutense University of Madrid, Spain. Contracted Researcher (Reincorporation Program MEC-93).  
1995            University of Aberdeen, Dept Biomedical Sciences. Visiting Fellow (1month).  
1995-1997      University of Aberdeen, Dept Biomedical Sciences. MRC Postdoctoral Fellow.  
1997-1999      National Institute of Neuroscience, Division of Neurochemistry. Tokyo, JAPAN. EU-STA Fellowship (JISTEC, JST). EU-STA Fellowship.  
1999-2000      National Institute of Neuroscience, Division of Neurochemistry. Center of Excellence (COE) Postdoc Fellow.  
2000-2004      JST-ICORP. Cell Mechanosensing Project. Researcher.  
2005-2007      JST-SORST, Mechanotransduction by micro- and nano-supramolecular complexes.  
2007-2008      Nagoya Univ Graduate School of Medicine. JAPAN. Part-time Researcher.  
2008-2009      The Jikei Univ School of Medicine. Laboratory of Neurophysiology. Tokyo. JAPAN. Visiting Researcher.  
2008-2011      Tokyo Medical and Dental University. Medical Research Institute. Research Assistant.  
2011-2014      Tokyo Medical and Dental University. Institute Biomaterials and Bioengineering. Dept Biomedical Information. Assistant Professor.

## RESEARCH AREAS

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Biomedicine. iPS cells. Neurophysiology. Neuro-glia. Electrophysiology. Pharmacology. Pain. Regenerative medicine. Mechanobiology.

## SELECTED PUBLICATIONS

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1. FERNANDO LÓPEZ-REDONDO, JUNKO KUROKAWA, FUMIMASA NOMURA, TOMOYUKI KANEKO, TOMOYO HAMADA, KENJI YASUDA AND TETSUSHI FURUKAWA. ES- and iPS-derived cardiomyocytes. A comparative electrophysiological study. Biophysical J 104(2) p298a, 2013.
2. LOPEZ-REDONDO F, KUROKAWA J, TETSUSHI F. An involvement of sympathetic nervous system stimulation in a gender disparity of nongenomic actions of dihydrotestosterone on cardiac L-type Ca<sup>2+</sup> currents. J Pharmacol Sci 118 Suppl 2012
3. LOPEZ-REDONDO F, YAMAMOTO K, ANDO J, FURUYA K, AKITA K, NARUSE K, SOKABE M.

- Shear stress induced ionic current and FM1-43 influx via P2X4 ATP-receptor as a mechanotransduction pathway. *Jpn J Physiol* **55** (Suppl) S83, 2005.
4. NAKAJIMA K, HONDA S, NAKAMURA Y, LOPEZ-REDONDO F, KOHSAKA S, YAMATO M, KIKUCHI A, OKANO T. Intact microglia are cultured and non-invasively harvested without pathological activation using a novel cultured cell recovery method. *Biomaterials* **22**(11): 1213-1223 (2001).
  5. LOPEZ-REDONDO F, NAKAJIMA K, HONDA S, KOHSAKA S, Glutamate transporter GLT-1 is highly expressed in activated microglia following facial nerve axotomy. *Brain Res Molecular Brain Res*, **76**(2): 429-435 (2000).
  6. GRAEBER MB, LOPEZ-REDONDO F, IKOMA E, ISHIKAWA M, IMAI Y, NAKAJIMA K, KREUTZBERG GW & KOHSAKA S, The microglia/macrophage response in the neonatal rat facial nucleus following axotomy. *Brain Res* **813**(2): 241-253 (1998).
  7. LIZARRAGA I, ALFARO MJ, GOICOECHEA C, LOPEZ F & MARTIN MI, Effect of butanedione monoxime on the contractility of guinea pig ileum and on the electrophysiological activity of myenteric S-type neurones. *Neurosci. Lett* **246**(2): 105-108 (1998).
  8. LOPEZ-REDONDO F, PERTWEE RG & LEES GM, Effects of cannabinoid receptor ligands on electrophysiological properties of myenteric neurones of the guinea-pig ileum. *Br J Pharmacol* **122**(2): 330-334 (1997).
  9. MARTIN MI, GOICOECHEA C, ORMAZABAL MJ, LOPEZ F & ALFARO MJ, Analgesic effect of two calcitonins and in vitro interaction with opioids. *Gen Pharmacol* **26**(3): 641-647 (1995).
  10. COLADO MI, ORMAZABAL MJ, GOICOECHEA C, LOPEZ F, ALFARO MJ & MARTIN MI, Involvement of central serotonergic pathways in analgesia elicited by salmon calcitonin in the mouse. *Eur J Pharmacol* **252**(3): 291-297 (1994).
  11. COLADO MI, ALFARO MJ, LOPEZ F, DEL VAL V & MARTIN MI, Effect of nimodipine, diltiazem and BAY K 8644 on the behavioural and neurochemical changes associated with naloxone-precipitated withdrawal in the rat. A comparison with clonidine. *Gen Pharmacol* **24**(1): 35-41 (1993).
  12. COLADO MI, ALFARO MJ, LOPEZ F DEL VAL V & MARTIN MI, The effect of dihydropyridine calcium channel agents on 5-HT metabolism in the CNS of the rat. *J Pharm Pharmacol* **43**(9):662-664(1991).
  13. ALFARO MJ, COLADO MI, LOPEZ F & MARTIN MI, Effect of clonidine, nimodipine and diltiazem on the in vitro opioid withdrawal response in the guinea-pig ileum. *Br J Pharmacol* **101**(4): 958-960 (1990).

## **SOCIETIES**

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1990-present	Spanish Society of Pharmacology (SEF).
1992-present	The Japan Neuroscience Society (JNS).
2005-present	The Physiological Society of Japan (JPS)
2013-present	Biophysical Society (USA)
2013-present	Biophysical Society of Japan