

# CURRICULUM VITAE

## 1.-PERSONAL

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Surname: **García Bonilla**  
Name: **Lidia**  
Date of birth: 14 January 1977  
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## 2.-PRESENT POSITION

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Experimental animal researcher at the Neurovascular Research Lab, Institut de Recerca,  
**Hospital Vall d'Hebron, Barcelona, Spain.**

Postdoctoral Fellowship from *Ministerio de Sanidad* of Spain (January 2008- December 2011).

Projects:

- *Improving Safety and Efficacy of Simvastatin Treatment for the Acute Phase of Ischemic, under the direction of Dr. Joan Montaner. (Supported by grants ESFIS 03.041 and 08.0981 from the FIS (Ministerio de Sanidad y Consumo of Spain).*

- *Dipyridamole in the ischemic Brain-Boehringer/Barcelona, BBB. (Supported by Boehringer-Ingelheim).*

- *Protective effect of Triflusal in transient ischemic models in rat. (Supported by GrupoUriach).*

## 3.- EDUCATIONAL BACKGROUND

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- 04/2006, PhD in Biology (University of Alcalá, Madrid).
- 07/2003, Teaching Degree in Biology (Complutense University of Madrid).
- 06/2000, University Degree in Biology (Complutense University of Madrid).

## 4.- PROFESSIONAL EXPERIENCE

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### GRANTS

11/2001-11/2005. BEFI grant from Carlos III Institute of Ministry of Health (01/9043).

12/2005-05/2006. Grant from Biomedical Investigation Foundation of Ramón y Cajal University Hospital.

01/2007-Grant from Foundation of Vall d'Hebron Hospital.

### PROJECTS

- 01/2007-12/2007 working in the Research of Vall d'Hebron of Barcelona in the Project (FIS 03.0411; Dr. Joan Montaner Villalonga): Influence of Endothelial Progenitor Cells on the modulation of angiogenesis and vasculogenesis after human ictus.

- 01/2006-12/2006 working in the Investigation Department of the State Hospital Ramón y Cajal, Madrid specialising in the Project (FIS 05/0312; Dr. Salinas): Mechanisms of death and neuroprotection in cerebral ischemia. Role for translation and initiation factors. Full-time fellowship.
- 04/2005-07/2005, Practical training in Ron's Laboratory of Molecular Pathogenesis Program of *Skirball Institute of New York University School of Medicine*, New York, NYC 10016, USA. Directed by MD. David Ron, Professor of Medicine and Cell Biology. Full-time fellowship.
- 01/2003-12/2005 working in the Investigation Department of the State Hospital Ramon y Cajal, Madrid specialising in the Project (FIS 02/0304; Dr. Salinas): *Translation modifications induced by transient cerebral ischemia and ischemic preconditioning. Initiation factors implicated*. Full-time fellowship.
- 11/2003-12/2003, Practical training in Laboratory of Protein Synthesis of Institute of Neurobiology, Slovak Academy of Sciences, Kosice, SK-04001 Slovak Republic. Directed by MVDr. Jozef Burda, Vice director of Institute. Full-time fellowship.
- 11/2001-12/2002, Predoctoral student in the Project (FIS 00/0245; Dr. Salinas): *Protein synthesis modifications during cerebral ischemia. Role of initiation factors*. Institution: Hopital Ramón y Cajal (Madrid). Full-time fellowship.

### 3.- PUBLICATIONS

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Salat D, Ribosa R, **García-Bonilla L**, Montaner J. (2009) Statin use before and after acute ischemic stroke onset improves neurological outcome. *Expert Rev Cardiovasc Ther.* **7**(10):1219-30.

Alvarez-Sabín J, Penalba A, Quintana M, Krupinski J, **García-Bonilla L**, Montaner J. Triflusal and aspirin have different effects on inflammatory biomarkers measured in patients with acute ischemic stroke. *Cerebrovascular Diseases*, **28**(4):371-7

Hernández-Guillamón M, Delgado P, Ortega L, Pares M, Rosell A, **García-Bonilla L**, Fernández-Cadenas I, Borrell-Pagès M, Boada M, Montaner J. (2009) Neuronal TIMP-1 release accompanies astrocytic MMP-9 secretion and enhances astrocyte proliferation induced by  $\beta$ -amyloid 25-35 fragment. *J Neurosci Res.* **87**(9):2115-25.

Cuadrado E, Rosell A, Borrell-Pagès M, **García-Bonilla L**, Hernández-Guillamón M, Ortega-Aznar A, Montaner J. (2009) Matrix metalloproteinase-13 is activated and is found in the nucleus of neural cells after cerebral ischemia. *J Cereb Blood Flow Metab.* **29**(2):398-410.

**García-Bonilla L**, Cid C, Alcázar A, Burda J, Ayuso I, Salinas M. (2007) Regulatory proteins of eukaryotic initiation factor 2-alpha subunit (eIF2 alpha) phosphatase, under ischemic reperfusion and tolerance. *J Neurochem.* **103**(4):1368-80.

Cid C, **García-Bonilla L**, Camafeita E, Burda J, Salinas M, Alcazar A. (2007) Proteomic characterization of protein phosphatase 1 complexes in ischemia-reperfusion and ischemic tolerance. *Proteomics.* **7**(17):3207-18.

**García-Bonilla L**, Burda, J, Piñeiro D, Ayuso I, Gómez-Calcerrada M and Salinas, M. Calpain-induced proteolysis after transient global cerebral ischemia and ischemic tolerance in a rat model. *Neurochemical Research.* 2006; **31**:1433-41

Marciniak SJ, **García-Bonilla L**, Hu J, Harding HP, Ron D. (2006) Activation-dependent substrate recruitment by the eukaryotic translation initiation factor 2 kinase PERK. *Journal of Cell Biology.* **172**:201-9.

Burda J, Matiasova M, Gottlieb M, Danielisova V, Nemethova M, **García L**, Salinas M, Burda R. (2005) Evidence for a role of second pathophysiological stress in prevention of delayed neuronal death in the hippocampal CA1 region. *Neurochemical Research.* **30**:1397-405.

**Lidia García**, Ana O'Loghlen, M. Elena Martín, Jozef Burda and Matilde Salinas. (2004) Does phosphorylation of eucaryotic elongation factor eEF2 regulate protein synthesis in ischemic preconditioning?. *Journal of Neuroscience Research*, **77**: 292-298.

**Lidia García**, Jozef Burda, Milina Hrehorovská, Rastislav Burda, M. Elena Martín and Matilde Salinas. (2004) Ischemic preconditioning in the rat brain: effect on the activity of several initiation factors,

Akt and extracellular signal-regulated protein kinase phosphorylation, and GRP78 and GADD34 expression. *Journal of Neurochemistry*, **88**: 136-147.

Jozef Burda, Milina Hrehorovská, **Lidia García Bonilla**, Viera Danielisová, Dása Cizkova, Rastislav Burda, Miroslava Némethová, Juan L. Fando and Matilde Salinas. (2003) Role of the protein synthesis in the ischemic tolerance acquisition induced by transient forebrain ischemia in the rat. *Neurochemical Research*, **28**: 1213-1219.

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