

# CURRICULUM VITAE

## 1. PERSONAL DATA

**Name:** Amaia Rodríguez  
**Birth date:** 09/28/1978  
**Birth place:** San Sebastián (SPAIN)  
**Professional address:** Metabolic Research Laboratory  
University of Navarra  
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## 2. ACADEMIC FORMATION

### Degrees and doctorate

- 1996-2000 Degree in Biology, University of Navarra, Pamplona, Spain.  
2004 PhD in Biology (*Cum laude*): Study of the effect of leptin on the vascular smooth muscle, University of Navarra, Pamplona, Spain.  
2008 Post-doctoral Research at the Obesity Research Unit, Helsinki University Central Hospital, Biomedicum. Helsinki (Finland)

### Grants

- 2002-2004 Grant of the Basque Government for the formation of Young Investigators.  
2002 Travel grant for Young Investigators awarded by the Organizing Committee of the 13<sup>th</sup> European Meeting on Hypertension (Milán, 13-17<sup>th</sup> June 2003).  
2002 Travel subsidy awarded by Laboratorios Farmacéuticos Recordati S.L. for the assistance to the 7<sup>a</sup> Reunión Nacional de la S.E.H.-L.E.H.L.A.  
2001 Travel grant for young investigators awarded by the Organizing Committee of the 19<sup>th</sup> Scientific Meeting of the International Society of Hypertension. 12<sup>th</sup> European Meeting on Hypertension (Praga, 23-27<sup>th</sup> June 2002).  
2001-2002 Grant of the Asociación de Amigos of the University of Navarra.

## 3. PROFESSIONAL EXPERIENCE

- **Actual position:** Post-doctoral Research Assistant in the Metabolic Research Laboratory of the University of Navarra since 2004 (The Metabolic Research Laboratory is participant of the CIBER Fisiopatología de la Obesidad y Nutrición; Instituto de Salud Carlos III, Spain)
- **Line of research:** Obesity and associated diseases (Hypertension, Diabetes and Cancer).

## 4. TEACHING EXPERIENCE

- 2009-2010 Associate Professor, Department of Endocrinology, Clínica Universidad de Navarra.  
2001-2004 Teaching Assistant. Center of Technology and Informatic, University of Navarra, Pamplona, Spain.  
2000-2001 Teaching Assistant. Department of Biochemistry, University of Navarra, Pamplona, Spain.

## 5. PROFESSIONAL AFFILIATIONS

- Representative of Southern Europe in the Young Investigators United of the European Association for the Study of Obesity (EASO) since 2008.
- Member of the Spanish Society for the Study of Obesity (SEEDO) since 2008

## 6. PARTICIPATION IN R&D PROJECTS

I have participated in 2 projects as Chief Investigator (listed below) and in 7 projects as Research Assistant:

- Title: Role of aquaporin-3 in the development of obesity and diabetes.  
Financial support: Department of Education, Government of Navarra  
Budget: 37.070 ¤  
Date: 2008-2010  
Number of participants: 5  
Chief Investigator: Dr. Amaia Rodríguez
- Title: Implication of ghrelin in the onset of obesity-associated hypertension  
Financial support: Department of Health, Government of Navarra  
Budget: 22.000 ¤  
Date: 2006-2007  
Number of participants: 5  
Chief Investigator: Dr. Amaia Rodríguez

## 7. GRANTS AND AWARDS

- 2009      **Prize for the Best Publication of an Original Investigation**, in the MEDES Prizes 2009 organized by Lilly Foundation for the work entitled "Vasodilator effect of ghrelin on rat aorta" published in the journal *Endocrinología y Nutrición* 2008.
- 2008      Photography entitled "The Planet Adipocyte" selected for the exposition and catalog of the National Competition of Scientific Photography FOTCIENCIA07, organized by the "Consejo Superior de Investigaciones Científicas" (CSIC) and the "Fundación Española para la Ciencia y la Tecnología" (FECYT) in the Micro Category (P49).  
2002-2004      Grant of the Basque Government for the formation of Young Investigators.
- 2003      Travel grant for Young Investigators awarded by the Organizing Committee of the 13<sup>th</sup> European Meeting on Hypertension (Milán, 13-17<sup>th</sup> June 2003).
- 2002      Travel subsidy awarded by Laboratorios Farmacéuticos Recordati S.L. for the assistance to the 7<sup>a</sup> Reunión Nacional de la S.E.H.-L.E.H.L.A.
- 2002      Travel grant for young investigators awarded by the Organizing Committee of the 19<sup>th</sup> Scientific Meeting of the International Society of Hypertension. 12<sup>th</sup> European Meeting on Hypertension (Praga, 23-27<sup>th</sup> June 2002).
- 2002      Grant of the "Asociación de Amigos" of the University of Navarra

## 8. PUBLICATIONS

My research is focused on the study of adipocyte biology and gene expression as well as the analysis of the role of different adipokines in obesity and obesity-associated pathologies (hypertension, diabetes and metabolic syndrome). I have published 33 manuscripts (12 as First Author, 20 as Colaborator and 1 as Last Author), 1 book chapter and more than 30 communications in national and international congresses. The top 5 manuscripts are listed below:

- Rodríguez A, Gómez-Ambrosi J, Catalán V, Becerril S, Sáinz N, Gil MJ, Silva C, Salvador J, Barba J, Colina I, Frühbeck G. Association of plasma acylated ghrelin with blood pressure and left ventricular mass in patients with metabolic syndrome. *J Hypertens*. 2010 Mar;28(3):560-7.
- Rodríguez A, Gómez-Ambrosi J, Catalán V, Gil MJ, Becerril S, Sáinz N, Silva C, Salvador J, Colina I, Frühbeck G. Acylated and desacyl ghrelin stimulate lipid accumulation in human visceral adipocytes. *Int J Obes (Lond)* 2009;33:541-552.
- Rodríguez A, Catalán V, Becerril S, Gil MJ, Mugueta C, Gómez-Ambrosi J, Frühbeck G. Impaired adiponectin-AMPK signalling in insulin-sensitive tissues of spontaneously hypertensive rats. *Life Sciences* 2008; 83 (15-16): 540-9.
- Rodríguez A, Catalán V, Gómez-Ambrosi J, Frühbeck G. Visceral and subcutaneous adiposity: are both therapeutic targets for tackling the metabolic syndrome? *Current Pharmaceutical Design* 2007; 13 (21): 2169-2175.
- Rodríguez A, Fortuño A, Gómez-Ambrosi J, Zalba G, Díez J, Frühbeck G. The inhibitory effect of leptin on angiotensin II-induced vasoconstriction in vascular smooth muscle cells is mediated via a nitric oxide-dependent mechanism. *Endocrinology* 2007; 148 (1): 324-331.

For more information, follow this link:

<http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=search&term=Rodriguez%20A%20AND%20Fruhbeck>

## 9. INVITED CONFERENCES

### Rodríguez A.

Genetics of Obesity.

European Society of Cardiology (ESC) Congress 2009. Barcelona, 2009.

### Rodríguez A.

Role of aquaporins and caveolins in the regulation of body weight and insulin resistance.

X Chilean International Congress on Obesity. Santiago de Chile (Chile), 2008.

### Rodríguez A.

Visceral and subcutaneous adiposity, are both potencial therapeutic targets for tackling the metabolic syndrome?

X Chilean International Congress on Obesity. Santiago de Chile (Chile), 2008.

### Rodríguez A.

Ghrelin activity, a determinant factor on the onset of visceral adiposity?

X Chilean International Congress on Obesity. Santiago de Chile (Chile), 2008.

### Rodríguez A.

*Aquaporins as modulators of the biology of adipocytes.*

VI Jornada de Avances en Diabetes del Niño y del Adolescente de la Sociedad Española de Endocrinología Pediátrica (SEEP). XII Jornada de Diabetes en el Niño y el Adolescente de la SEEP, Sevilla (Spain) 2007.

### Rodríguez A.

Aquaporins and glycerol transport: a promising new target against obesity?

2<sup>nd</sup> World Congress on Prevention and Therapies against Obesity. Innovations and Perspectives. Institute Pasteur, Paris (France), 2007.

### Edas M, Shi Y, Dhurandhar NV, Rodríguez A.

Round table discussion and conclusion: Prevention and therapies of obesity in 2007.

2<sup>nd</sup> World Congress on Prevention and Therapies against Obesity. Innovations and Perspectives. Institute Pasteur, Paris (France), 2007.