

Curriculum vitae

Prof. Dr. Carmen Ruiz de Almodóvar

European Center for Angioscience
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Academic education

Biochemistry (09/1994 – 10/1999), University of Granada, Spain

Scientific degree

PhD: Biochemistry, CSIC – University of Granada, Spain, 2004

Professional career

09/2018 - W3 Professor at University of Heidelberg, Faculty of Medicine
Mannheim
10/2011 – 08/2018 Junior Group leader at the Biochemistry Center (BZH) of University
of Heidelberg
10/2004 – 09/2011 Postdoctoral fellow, Vesalius Research Center (VRC), VIB – KU
Leuven, Belgium, Neuro-vascular link laboratory (*Supervisor: Prof.
Peter Carmeliet*)
09/1999 – 09/2004 PhD student, CSIC – University of Granada (*Supervisor: Prof. A.
López Rivas*)

Miscellaneous

2012 ERC Starting Grant
2011 Marie Curie career integration grant
2010 EMBO Short term fellowship
2009 FEBS Distinguished Young Investigator Award
2009-2011 FWO individual postdoctoral fellowship
2005-2008 FEBS individual postdoctoral fellowship
1999-2004 FIS PhD student individual fellowship

Publications (10 selected)

Tisch N, Freire-Valls A, Yerbes R, Paredes I, La Porta S, Wang X, Martín-Pérez R, Castro L, Wong WW, Coultas L, Strlic B, Gröne HJ, Hielscher T, Mogler C, Adams R, Heiduschka P, Claesson-Welsh L, Mazzone M, López-Rivas A, Schmidt T, Augustin HG, Ruiz de Almodovar C. (2019) Caspase-8 modulates physiological and pathological angiogenesis during retina development. **J Clin Invest.** 2019 Aug 27.

Karakatsani A, Shah B, Ruiz de Almodovar C. Blood Vessels as Regulators of Neural Stem Cell Properties. **Front Mol Neurosci.** 2019 Apr 12;12:85.

Paredes I, Himmels P, Ruiz de Almodóvar C. (2018). Neurovascular Communication during CNS Development. **Dev Cell.** 45:10-32

Wang X, Freire Valls A, Shermann G, Shen Y, Moya IM, Castro L, Urban S, Solecki GM, Winkler F, Riedemann Lm Jain RK, Mazzone M, Schmidt T, Fischer T, Halder G, Ruiz de Almodovar C. (2017) YAP/TAZ orchestrate VEGF signaling during developmental angiogenesis. **Dev Cell.** 42:462-478.

Himmels P, Paredes I, Adler H, Karakatsani A, Luck R, Marti HH, Ermakova O, Rempel E, Stoeckli ET & Ruiz de Almodovar C. (2017) Motor neurons control blood vessel patterning in the developing spinal cord. **Nat Commun.** 8:14583.

Snuderl M*, Batista A*, Kirkpatrick ND*, Ruiz de Almodovar C*, Riedemann L, Walsh EC, Anolik R, Huang Y, Martin JD, Kamoun W, Knevels E, Schmidt T, Farrar CT, Vakoc BJ, Mohan N, Chung E, Roberge S, Peterson T, Bais C, Zhelyazkova BH, Yip S, Hasselblatt M, Rossig C, Niemeyer E, Ferrara N, Klagsbrun M, Duda DG, Fukumura D, Xu L, Carmeliet P, Jain RK. (2013). Targeting placental growth factor/neuropilin 1 pathway inhibits growth and spread of medulloblastoma. **Cell**.152:1065-76. *equal contribution.

Carmeliet P, Ruiz de Almodovar C. (2013). VEGF ligands and receptors: implications in neurodevelopment and neurodegeneration. **Cell Mol Life Sci**. 70:1763-78.

Meissirel C*, Ruiz de Almodovar C*, Knevels E*, Coulon C, Chounlamountri N, Segura I, de Rossi P, Vinckier S, Anthonis K, Deléglise B, de Mol M, Ali C, Dassonville K, Loyens E, Honnorat J, Michotte Y, Rogemond V, Smolders I, Voets T, Vivien D, Vanden Berghe P, Van den Bosch L, Robberecht W, Chédotal A, Oliviero S, Dewerchin M, Schmucker D, Thomasset N, Salin P, Carmeliet P. (2011). VEGF modulates NMDA receptors activity in cerebellar granule cells through Src-family kinases before synapse formation. **Proc Natl Acad Sci U S A**. 108:13782-7. *equal contribution

Ruiz de Almodovar C*, Fabre PJ*, Knevels E, Coulon C, Segura I, Haddick PC, Aerts L, Delattin N, Strasser G, Oh WJ, Lange C, Vinckier S, Haigh J, Fouquet C, Gu C, Alitalo K, Castellani V, Tessier-Lavigne M, Chedotal A, Charron F, Carmeliet P. (2011). VEGF mediates commissural axon chemoattraction through its receptor Flk1. **Neuron**. 2011 70:966-78. *equal contribution

Storkebaum E*, Ruiz de Almodovar C*, Meens M, Zacchigna S, Mazzone M, Vanhoutte G, Vinckier S, Miskiewicz K, Poesen K, Lambrechts D, Janssen GM, Fazzi GE, Verstreken P, Haigh J, Schiffers PM, Rohrer H, Van der Linden A, De Mey JG, Carmeliet P. (2010). Impaired autonomic regulation of resistance arteries in mice with low vascular endothelial growth factor or upon vascular endothelial growth factor trap delivery. **Circulation**.122:273-81.*equal contribution