Prof. Dr. CARMEN RUIZ DE ALMODÓVAR

1) General information

Date of birth: 09 April, 1976
Gender: Female
Address: University Hospital Bonn
Institute for Neurovascular Cell Biology
Life and Brain Center (Geb. 76)
Venusberg-Campus 1
53127 Bonn, Germany
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Position: Professor for Neurovascular Cell Biology (W3),
Director Institute for Neurovascular Cell Biology
Children: Two (* 2015, * 2018)
Parental leave, if applicable: 2015, 2018

2) University training and degree

1989 - 1999 Studies in Biochemistry, University of Granada, Spain

3) Advanced academic qualifications

1999 Doctoral dissertation in Biochemistry and Molecular Biology. Mentor: Prof. Abelardo López Rivas, CSIC-University of Granada, Granada, Spain

4) Postgraduate professional career

Since Feb 2022 Institute Director, Institute for Neurovascular Cell Biology, Medical Faculty of Bonn, University Hospital Bonn, University of Bonn, Germany
Since Feb 2022 Schlegel Chair of the department of Neurovascular Cell Biology, University of Bonn, Germany
Since Feb 2022 W3 (Full) Professor for Neurovascular Cell Biology, Medical Faculty of Bonn, University Hospital Bonn, University of Bonn, Germany
August 2018 W3 Professor for Vascular Dysfunction, Medical Faculty of Mannheim, Heidelberg University, Germany
2011 - 2018 Junior group leader at the Biochemistry Center, Heidelberg University, Germany
2004 - 2011 Postdoctoral fellow with Prof. Dr. Peter Carmeliet, VIB-KULeuven, Leuven, Belgium

5) Other

Awards and honours:
2020 ERC Consolidator Grant Award - European Research Council (2020-2025)
2017 Chica- Heinz Schaller Long term fellowship
2012 ERC Starting Grant Award of the European Research Council (2012-2018)
2011 Marie Curie career integration grant
2010 EMBO Short term fellowship

2009 - 2011 FWO individual postdoctoral fellowship

2009 FEBS distinguished young investigator award
2005 - 2008 FEBS individual postdoctoral fellowship
1999 - 2004 FIS PhD student individual fellowship

Panels and coordinating functions:
Since 2019 Steering Committee member for the DFG Collaborative Research Center 1366 (Vascular control of organ function)
Since 2019 Steering Committee member for the DFG Collaborative Research Center 873 (Maintenance and differentiation of stem cells in development and disease)
2017 - 2021 Steering Committee member of the Nikon Imaging Center, Heidelberg University
2018 - 2021 Diverse university commissions of Heidelberg University

6) Publications

A)

Vieira R, Shah B, Dupraz S, Paredes I, Himmels P, Schermann G, Adler H, Motta A, Gärtner L, Navarro-Aragall A, Ioannou E, Dyukova E, Bonnavion R, Fischer A, Bonanomi D, Bradke F, Ruhrberg C, Ruiz de Almodovar C. Endothelial PlexinD1 signaling instructs spinal cord vascularization and motor neuron development. **Neuron**; In press (DOI: https://doi.org/10.1016/j.neuron.2022.12.005).

Tisch N, Mogler C, Stojanovic A, Luck R, Korhonen EA, Ellerkmann A, Adler H, Schermann G, Erkert L, Patankar JV, Karakatsani A, Scherr AL, Fuchs Y, Cerwenka A, Wirtz S, Köhler BC, Augustin HG, Becker C, Schmidt T, Ruiz de Almodovar C. Caspase-8 in endothelial cells maintains gut homeostasis and prevents small bowel inflammation in mice. **EMBO Mol Med**; 14(6):e14121. 2022.

Paredes I, Vieira JR, Shah B, Ramunno CF, Dyckow J, Adler H, Richter M, Schermann G, Giannakouri E, Schirmer L, Augustin HG, Ruiz de Almodovar C. Oligodendrocyte precursor cell specification is regulated by bi-directional neural progenitor-endothelial cell crosstalk. **Nat Neurosci**; 24, 478–488, 2021.

Luck R, Karakatsani A, Shah B, Schermann G, Adler H, Kupke J, Tisch N, Jeong HW, Back MK, Hetsch F, D`Errico A, De Palma M, Wiedtke E, Grimm D, Acker-Palmer A, von Engelhardt J, Adams RH, Augustin HG, Ruiz de Almodovar C: The angiopoietin-Tie2 pathway regulates Purkinje cell dendritic morphogenesis in a cell-autonomous manner. **Cell Rep**; 36(7), 109522, 2021.

Shen Y, Wang X, Liu Y, Singhal M, Gürkaslar C, Freire Valls A, Lei Y, Hu W, Schermann G, Adler H, Yu FX, Fischer T, Zhu Y, Augustin HG, Schmidt T, Ruiz de Almodovar C. STAT3-YAP/TAZ signaling in endothelial cells promotes tumor angiogenesis. **Sci Signal**; Dec 7; 712(14):eabj8393, 2021.

Tisch N, Freire-Valls A, Yerbes R, Paredes I, La Porta S, Wang X, Martín-Pérez R, Castro L, Wong WW, Coultas L, Strilic B, Gröne HJ, Hielscher T, Mogler C, Adams RH, Heiduschka P, Claesson Welsh L, Mazzone M, López-Rivas A, Schmidt T, Augustin HG, Ruiz de

Almodovar C. Caspase-8 modulates physiological and pathological angiogenesis during retina development. **J Clin Invest**; 129(12):5092-5107, 2019.

Luck R, Urban S, Karakatsani A, Harde E, Sambandan S, Nicholson L, Haverkamp S, Mann R, Martin-Villalba A, Schuman EM, Acker-Palmer A, Ruiz de Almodóvar C. VEGF/VEGFR2 signaling regulates hippocampal axon branching during development. **Elife**; 8:e49818, 2019.

Paredes I, Himmels P, Ruiz de Almodovar C. Neurovascular Communication during CNS Development. **Developmental Cell**; 45(1):10-32, 2018.

Wang X, Freire Valls A, Schermann G, Shen Y, Moya IM, Castro L, Urban S, Solecki GM, Winkler F, Riedemann L, Jain RK, Mazzone M, Schmidt T, Fischer T, Halder G, Ruiz de Almodovar C. YAP/TAZ Orchestrate VEGF Signaling during Developmental Angiogenesis. **Developmental Cell**; 42(5):462-478.e467, 2017.

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

B) other publications: -

C) Patents: -