Targeting intraplaque angiogenesis : imaging and therapeutic interventions

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CURRICULUM VITAE

Fabiana Baganha was born on September 23rd 1991 in Viana do Castelo, Portugal. She attended the High School Santa Maria Maior in Viana do Castelo which was concluded in 2009.

Afterwards, she was accepted to the University of Porto. There she obtained a Bachelor of Science in Biochemistry in 2013 and a Master of Science in Cardiovascular Pathophysiology in 2015. She wrote her master thesis under the supervision of Roberto Albuquerque Roncon Jr., entitled *MicroRNA-155 mediates sepsis-associated cardiovascular dysfunction*. From 2012 to 2015 she was also a research trainee at the department of Cardiophysiology of the Faculty of Medicine of the University of Porto.

In January 2016 she moved to Leiden to start her PhD research project joining the *MOGLYNET-PhD Program in Drug Discovery and Development* funded by the Marie-Curie Consortium. Her research was carried on both at the Leiden University Medical Center of Leiden University (The Netherlands) under the supervision of Prof. Dr. Paul Quax and Dr. Margreet de Vries, and at the Institute of Medical Sciences of Aberdeen University (Scotland) under the supervision of Prof. Dr. Mirela Delibegovic.

In 2016, she did an internship at *HistoGeneX* in Antwerp (Belgium). From 2018, she joined the *NativeScientist* organization, developing scientific workshops about cardiovascular diseases for Dutch-Portuguese young communities.

During the academic period, Fabiana attended several conferences, presenting here work. In 2019, she won best oral presentation at European Society for Vascular Surgery-Spring meeting in London.

PUBLICATIONS

2020

Baganha F., de Jong A., Jukema J.W., Delibegovic M., de Vries M.R., Quax P.H.A., **The role of Immunomodulation on Vein Graft Failure.** *Journal of Cardiovascular Translational Research 2020; In press*

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Parma L., Peters H.A.B., Baganha F., Sluimer J.C., de Vries M.R., Quax P.H.A., **Prolonged Hyperoxygenation Treatment Improves Vein Graft Patency and Decreases Macrophage Content in Atherosclerotic Lesions in ApoE3*Leiden Mice.** *Cells 2020; 9(2). pii: E336*

2018

Vasques-Nóvoa F., Laundos T.L., Cerqueira R.J., Quina-Rodrigues C., Soares-Dos-Reis R., Baganha F., Ribeiro S., Mendonça L., Gonçalves F., Reguenga C., Verhesen W., Carneiro F., Paiva J.A., Schroen B., Castro-Chaves P., Pinto-do-Ó P., Nascimento D.S., Heymans S., Leite-Moreira A.F., Roncon-Albuquerque R. Jr. **MicroRNA-155 Amplifies Nitric Oxide/cGMP Signaling and Impairs Vascular Angiotensin II Reactivity in Septic Shock.** *Critical Care Medicine 2018*; 46(9):e945–e954

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Baganha F., Parma L., Quax P.H.A., de Vries M.R., **Plaque Angiogenesis and Intraplaque Hemorrhage in Atherosclerosis**. *European Journal Pharmacology* 2017; 816:107-115

Submitted

Baganha F., de Jong R.C.M., Peters E.A.B., Voorham W., Jukema J.W., Delibegovic M, Quax P.H.A., de Vries M.R., **Atorvastatin pleiotropically decreases intraplaque angiogenesis and intraplaque hemorrhage by inhibiting ANGPT2 release and VE-CAD internalization.**

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van der Kwast R.V.C.T., Parma L., M. van der Bent L., van Ingen E., Baganha F., Peters E.A.B., Goossens E.A.C., Simons K.H., Palmen M., de Vries M.R., Quax P.H.A., Nossent A.Y., **Adenosine-to-Inosine editing of vasoactive microRNAs alters their targetome and function in ischemia.**

In preparation

Baganha F., Ritsma L., de Vries M.R., Quax P.H.A., **Assessment of Microvessel Permeability in Murine Atherosclerotic Vein Grafts using Two-Photon Intravital Microscopy.**