

Gonçalo Castelo-Branco, Curriculum Vitae

PERSONAL INFORMATION

Associate Professor Gonçalo Castelo-Branco

ORCID ID: 000-0003-2247-9393

Date of birth: 7th August 1976

Nationality: Portuguese and Swedish

Research group's website: <http://ki.se/en/mbb/goncalo-castelo-branco-group>

EDUCATION

- 2016 Docent (Associate Professor) of Neurobiology at the Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden
- 2005 PhD in Medical Biochemistry, Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden
- 1999 B.Sc. in Biochemistry, Faculty of Science and Technologies, University of Coimbra, Portugal

CURRENT POSITION

- 2017 – Senior Researcher in Neuroepigenetics, at the Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden
- 2016 – Fellow at Ming Wai Lau Center of Reparative Medicine at Karolinska Institutet, Stockholm, Sweden

PREVIOUS POSITIONS

- 2013-16 Associate Member, Linnaeus Center in Developmental Biology for Regenerative Medicine (www.dbrm.se), Karolinska Institutet, Stockholm, Sweden
- 2015-16 Senior Researcher at the Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden
- 2012-15 Assistant Professor and Principal Investigator at the Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden
- 2009-12 Post-doctoral fellow, with Prof. Tony Kouzarides, The Gurdon Institute, University of Cambridge, United Kingdom
- 2005-08 Post-doctoral fellow, with Assoc. Professor Ola Hermanson, Department of Neuroscience, Karolinska Institutet, Stockholm, Sweden
- 2000-05 PhD studies. Medical Biochemistry, with Professor Ernest Arenas, Karolinska Institutet, Stockholm, Sweden
- 1998-99 Research trainee, Inst. Molecular and Cellular Biology, Porto, Portugal
- 1994-99 B.Sc. studies, Biochemistry, University of Coimbra, Portugal

PUBLICATIONS

(10 selected, number of citations from Google Scholar)

1. "PAD2-mediated citrullination contributes to efficient oligodendrocyte differentiation and myelination"
Ana Mendanha Falcão, Mandy Meijer, Antonella Scaglione, Puneet Rinwa, Eneritz Agirre, Jialiang Liang, Sara C. Larsen, Abeer Heskol, Rebecca Frawley, Michael Klingener, Manuel Varas-Godoy, Alexandre A.S.F. Raposo, Patrik Ernfors, Diogo S. Castro, Michael L. Nielsen, Patrizia Casaccia and **Gonçalo Castelo-Branco**
CELL REPORTS, 2019, in press

2. "Altered human oligodendrocyte heterogeneity in multiple sclerosis"
Sarah Jäkel†, Eneritz Agirre†, Ana Mendanha Falcão, David van Bruggen, Ka Wai Lee, Irene Knuesel, Dheeraj Malhotra, Charles ffrench-Constant*, Anna Williams*, **Gonçalo Castelo-Branco***
NATURE, **566**, 543–547 (2019)

3. "Disease-specific oligodendrocyte lineage cells arise in multiple sclerosis".
Ana Mendanha Falcão, David van Bruggen, Sueli Marques, Mandy Meijer, Sarah Jäkel, Eneritz Agirre, Samudyata, Elisa M. Floriddia, Darya P. Vanichkina, Charles ffrench-Constant, Anna Williams, André Ortlieb Guerreiro-Cacais and **Gonçalo Castelo-Branco**.
NATURE MEDICINE, 2018, **24**, 1837–1844 (2018)

4. **“Transcriptional Convergence of Oligodendrocyte Lineage Progenitors during Development.”**

Marques S, van Bruggen D, Vanichkina DP, Floriddia EM, Munguba H, Våremo L, Giacomello S, Falcão AM, Meijer M, Björklund ÅK, Hjerling-Leffler J, Taft RJ, **Castelo-Branco G**.

DEV CELL 2018 Aug 20;46(4):504-517.e7

5. **“RNA velocity of single cells”**

La Manno G, Soldatov R, Zeisel A, Braun E, Hochgerner H, Petukhov V, Lidschreiber K, Kastrioti ME, Lönnerberg P, Furlan A, Fan J, Borm LE, Liu Z, van Bruggen D, Guo J, He X, Barker R, Sundström E, **Castelo-Branco G**, Cramer P, Adameyko I, Linnarsson S, Kharchenko PV.

NATURE. 2018 Aug;560(7719):494-498 (number of citations: 42)

6. **“Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system”**

Sueli Marques[†], Amit Zeisel[†], Simone Codeluppi, David van Bruggen, Ana Mendanha Falcão, Lin Xiao, Huiliang Li, Martin Häring, Hannah Hochgerner, Roman A. Romanov, Daniel Gyllborg, Ana Muñoz Manchado, Gioele La Manno, Peter Lönnerberg, Elisa M. Floriddia, Fatemah Rezayee, Patrik Ernfors, Ernest Arenas, Jens Hjerling-Leffler, Tibor Harkany, William D. Richardson, Sten Linnarsson*, **Gonçalo Castelo-Branco***

SCIENCE 2016, 352 (6291), 1326-29 (number of citations: 158)

7. **"Cell types in the mouse cortex and hippocampus revealed by single-cell RNA-seq"**

Amit Zeisel[†], Ana B. Muñoz Manchado[†], Simone Codeluppi, Peter Lönnerberg, Gioele La Manno, Anna Juréus, Sueli Marques, Hermany Munguba, Liqun He, Christer Betsholtz, Charlotte Rolny,

Gonçalo Castelo-Branco, Jens Hjerling-Leffler* and Sten Linnarsson*

SCIENCE 2015, 347 (6226), 1138-1142 (number of citations: 971)

8. **"Acute treatment with valproic acid and l-thyroxine ameliorates clinical signs of experimental autoimmune encephalomyelitis and prevents brain pathology in DA rats"**

Castelo-Branco G*, Stridh P, Guerreiro-Cacais AO, Adzemovic MZ, Falcão AM, Marta M, Berglund R, Gillett A, Hamza KH, Lassmann H, Hermanson O, Jagodic M*.

NEUROBIOL. DIS. 2014 Nov; 71:220-33 (number of citations: 16)

**Co-corresponding and senior author*

9. **"Neural stem cell differentiation is dictated by distinct actions of nuclear receptor corepressors and histone deacetylases"**

Gonçalo Castelo-Branco*, Tobias Lilja, Karolina Wallenborg, Ana M. Falcao, Sueli Marques, Aileen Gracias, Derek Solum, Ricardo Paap, Julian Walfridsson, Ana I. Teixeira, Michael G. Rosenfeld, Kristen Jepsen, and Ola Hermanson*

STEM CELL REPORTS 2014, 3(3):502-15 (number of citations: 31)

**Co-corresponding and senior author*

10. **"Citrullination regulates pluripotency and Histone H1 binding to chromatin"**

Maria Christophorou*, **Gonçalo Castelo-Branco***, Richard Halley-Stott, Clara Slade Oliveira, Remco Loos, Aliaksandra Radzishchanskaya, Kerri A. Mowen, Paul Bertone, José Silva, Magdalena Zernicka-Goetz, Michael L. Nielsen, John Gurdon, Tony Kouzarides

NATURE 2014, 507(7490):104-8 (number of citations: 189)

** equal contribution, co-first author*

Original peer-reviewed articles: 26; reviews: 4; editorial: 1; BioRxiv: 4; Books and book chapters: 5

Total number of citations: 3374 (out of total of 31 articles)