

CURRICULUM VITAE

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Present Position

Postdoctoral Investigator at the Institute of Hygiene and Tropical Medicine (IHMT), Global Health and Tropical Medicine (GHTM), THOP Unit, Lisbon Nova University (UNL), Portugal.

Education

2007: PhD in Biomedical Sciences (speciality Morphological Sciences) by the Faculty of Medicine of the Lisbon University (FMUL). Approved with honours.

1995 – 2000: Five year graduation course in Biology, Genetic and Microbiology variant, Faculty of Sciences of the Lisbon University (FCUL). Classification: 17/20.

Professional Experience

2007 - 2012: Post-doctoral fellow at the Parc de Recerca Biomédica de Barcelona (PRBB), Center for Genomic Regulation (CRG), Barcelona, Spain. Supervisor: Prof. Juan Valcárcel.

2001 - 2006: PhD Student at the Institute of Molecular Medicine (IMM), Lisbon Faculty of Medicine. Supervisor: Prof. Maria Carmo-Fonseca. PhD thesis title: “PABPN1 protein: Aggregation properties in an OPMD cellular model and a novel role in splicing”.

7/2004 - 12/2004: Visiting PhD student at the Institute of Biochemistry of the Halle/Wittenberg University, Halle, Germany. Supervisor: Prof. Elmar Wahle.

3/2004 – 4/2004: CSH course “Protein Characterization and Purification”, Cold Spring Harbor Laboratory, Cold Spring Harbor, United States.

8/2002 – 12/2002: Visiting PhD student at the Institute of Biochemistry of the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland. Supervisor: Prof. Ulrike Kutay.

7/2000 – 12/2000: Visiting student at the Institute of Biochemistry of the Halle/Wittenberg University, Halle, Germany. Supervisor: Prof. Elmar Wahle.

9/1999 – 6/2000: Undergraduate student at the Institute of Histology and Embryology of the Lisbon Faculty of Medicine. Supervisor: Prof. Maria Carmo-Fonseca.

Publications

- Alves C., Cheng H., **Tavanez JP.**, Casaca A., Gudima S., Roder H., Cunha C. "Structural and nucleic acid binding properties of hepatitis delta virus small antigen". *World J Virol* 2017 May 12; 6(2): 26-35.
- Cunha C., **Tavanez JP.**, Gudima S. "Hepatitis delta virus: A fascinating and neglected pathogen". *World J Virol.* 2015 Nov 12;4(4):313-22.
- **Tavanez JP.**, Quina AS., Cunha C. "Virus and noncoding RNAs: stars in the host-virus interaction game". *Future Virology*, 2014 December 9(12), 1077-1087.
- Berndt H., Harnisch C., Rammelt C., Stohr N., Zirkel A., Dohm J., Himmelbauer H., **Tavanez JP.**, Huttelmaier S., Wahle E. "Maturation of mammalian H/ACA box snoRNAs: PAPD5-dependent adenylation and PARN-dependent trimming". *RNA*. 2012 May;18(5):958-72.
- **Tavanez JP.**, Madl T., Kooshapur H., Sattler M., Valcárcel J. "hnRNP A1 Proofreads 3' Splice Site Recognition by U2AF". *Mol Cell*. 2012 Feb 10;45(3):314-29.
- **Tavanez JP.**, Valcárcel J. "A splicing mastermind for EMT". *EMBO J.* 2010 Oct; 6;29(19):3217-8.
- **Tavanez JP.**, Bengoechea R., Berciano MT., Lafarga M., Carmo-Fonseca., Enguita FJ M. "Hsp70 chaperones and type I PRMTs are sequestered at intranuclear inclusions caused by polyalanine expansions in PABPN1". *PloS One*. 2009 July; 29; 4(7):e6418.
- **Tavanez JP.**, Calado P., Braga J., Lafarga M., Carmo-Fonseca M. "In vivo aggregation properties of the nuclear poly(A)-binding protein PABPN1". *RNA*. 2005 May;11(5):752-62.
- Calapez A., Pereira HM., Calado A., Braga J., Rino J., Carvalho C., **Tavanez JP.**, Wahle E., Carmo-Fonseca M. (2002) "The motion of messenger ribonucleoprotein complexes in the nucleus of living cells is ATP-dependent and temperature-sensitive". *J Cell Biol.* Dec 9;159(5):795-805.
- Lafarga M., Berciano MT., Pena M., Mayo I., Castano JG., Bohmann D., Rodrigues JP., **Tavanez JP.**, Carmo-Fonseca M. (2002) "The clastosome: a sub-type of nuclear body enriched in 19S and 20S proteasomes, ubiquitin and protein substrates of the proteasome". *Mol Biol Cell* Aug 1; 13(8): 2771-2782.

- **Tavanez JP.**, Cunha C., Silva MC., David E., Monjardino J. and Carmo-Fonseca M. (2002) "The Hepatitis Delta Virus shuttles between the nucleus and the cytoplasm". *RNA*, May; 8(5):637-46.

Current Research Interests

RNA metabolism. Splicing and alternative splicing regulation. Splicing regulation and disease. Hepatitis D virus biology and Hepatitis D virus-induced hepatocellular carcinoma. Alternative splicing and HDV-induced hepatocellular carcinoma. Non-coding RNA biology. Identification and development of novel anti-tumor drugs. RNA-based therapies.

Fellowships

2/2013 – current: Post-Doctoral Fellow of the “Fundação para a Ciência e a Tecnologia” (FCT).

9/2006 - 12/2008: Long term Post-Doctoral Fellow of the European Molecular Biology Organization (EMBO).

1/2001 - 12/2004: PhD Fellow of the “Fundação para a Ciência e a Tecnologia” (FCT).

7/2000 – 12/2000: Short term fellow of the “Deutsche Forschungsgemeinschaft“ (DFG).

9/1999 - 6/2000: Fellow of the “Programa de Desenvolvimento Educativo para Portugal” (PRODEP).

Scientific Awards

- Research Grant Grupo de Investigação Cancro Digestivo (GICD)/Bayer First Prize, 2016.
- Long term Post-Doctoral Fellow of the European Molecular Biology Organization (EMBO), 2006.
- Pfizer Investigation Prize with the work “Oculopharyngeal Muscular Dystrophy: molecular analysis of PABPN1 protein aggregation process”, Lisbon, Portugal, 2002.
- Young Investigator First Prize in the 5th Reunion of the Portuguese Society of Human Genetics with the work “PolyA binding activity of PABPN1 protein involved in Oculopharyngeal Muscular Dystrophy”, Aveiro, Portugal, 2001.
- Ricardo Jorge First Prize in Public Health with the work “Hepatitis Delta Virus: Transport between the nucleus and the cytoplasm; Implications in therapy”, Lisbon, Portugal, 2001.
- Laura Ayres First Prize in Microbiology and Pathogenesis with the work “Hepatitis Delta Virus: Transport between the nucleus and the cytoplasm; Implications in therapy”, Lisbon, Portugal, 2001.