

Short Curriculum Vitae
Tiago Bandeiras / Tiago M. Bandeiras
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Tiago is the Head of the Merck Healthcare Lab Head of the Structural Biology for Drug Discovery, Health and Pharma, since 2016.

He holds an Applied Chemistry/Biotechnology Bachelor degree from the Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa and obtained his PhD in Biochemistry with the Universidade Nova de Lisboa in the area of Archaeal Respiratory Chain Protein Complexes. During his PhD, he contributed to the enlightening of different respiratory membrane complexes, contributing to understand the coupling of sulfur to oxygen metabolism in archaea.

He joined iBET in 2005, first as a project manager for Merck KGaA X-ray crystallography-related projects. Following a training period at Merck in 2005, Tiago started the coordination of the molecular interactions and biophysics collaboration with Merck KGaA until 2008, when we enrolled in a Ciência 2007 position as Auxiliary Researcher until 2013. From 2013 to present days, the collaboration with Merck was enlarged to cover new expertises such as Surface Plasmon Resonance, Assay Development and HDX-MS, and since 2016 Tiago became the Merck Satellite Lab Head at IBET.

Current Research is mostly focused on the study of human drug targets, like the human AAA+ ATPases of which we identify partners and client proteins in the context of large cellular complexes, with focus on complex assembly mechanisms and mature complex architecture, to explore complexes drugability using a broad panel of biophysical and structural methods.

At the Merck Lab, the focus is to support the development of new therapeutic antibodies and small molecules cancer drugs, by using two complementary areas in drug development programs: Structure-based drug design & Molecular interactions. The integrated combination of Recombinant Protein Production and X-Ray Crystallography with a molecular interactions platform comprising Surface Plasmon Resonance, Assay Development and HDX-MS is key to support innovative drug discovery programs.

CV Highlights: (i) 41 published papers; 1 book chapters; receiving a total of over 1074 citations (h-index 18); (ii) supervision of 7 PhD students (1 concluded), 4 Master students (4 concluded); (iii) Over 10 oral communications (6 as invited speaker) and 60 poster communications; (iv) Principal Investigator of 3 Research Grants funded by Fundação para a Ciência e Tecnologia; (v) Ciência 2007 Auxiliary Researcher (2008-2013); (vi) Pfizer Award for Basic Sciences (2012); (vii) Auxiliary Professor at Universidade Lusófona de Humanidades e Tecnologias (2003-2005).

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