

# TIAGO FLEMING OUTEIRO

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## WORK

Instituto de Medicina Molecular  
Cell and Molecular Neuroscience Unit  
Av. Professor Egas Moniz  
1649-028 Lisboa  
Portugal

## EDUCATION

- 4/99 – 7/04 **Ph.D. in Molecular and Cell Biology**  
Whitehead Institute for Biomedical Research, MIT, Cambridge, USA  
University of Chicago (UC), Chicago, USA
- 7/98-9/98 **Teaching Training (“Curso de Formação de Formadores”)**  
Employment Institute (IEFP), Portugal
- 9/94-9/98 **B.S. in Biochemistry**  
Faculty of Sciences – University of Porto, Porto, Portugal

## RESEARCH AND PROFESSIONAL EXPERIENCE

- 12/07 – present **Auxiliar Professor**, Instituto de Fisiologia, Faculdade de Medicina da Universidade de Lisboa, Portugal
- 5/07 – 7/08 **Visiting Scientist**, Massachusetts General Hospital, Harvard Medical School, Boston, USA.
- 5/07 – present **Principal Investigator**, Institute of Molecular Medicine, University of Lisbon, Portugal
- 11/05 **Co-Founder**, BioEPI Clinical and Translational Research Center, Taguspark, Portugal
- 6/04-5/07 **Postdoctoral Research Fellow**; advisor Dr. Brad Hyman, MGH – Harvard University, USA
- 6/04-9/04 **Consultant and Research Scientist**, FoldRx Pharmaceuticals, Inc, Cambridge, USA  
Ph.D. work was transferred to the start up company FoldRx Pharmaceuticals, Inc.
- 4/99 – 8/04 **Graduate Research**; advisor Dr. Susan Lindquist  
The Whitehead Institute, MIT, Cambridge, USA  
The University of Chicago, Chicago, USA
- 11/98-4/99 **Graduate Research**; advisor Prof. M. J. Saraiva  
University of Porto/IBMC, Porto, Portugal
- 2/98-9/98 **Undergraduate Research**; advisor Prof. John Findlay  
University of Leeds, Leeds, UK
- 9/97–2/98 **Research Assistant**;  
Centro de Estudos da Paramiloidose, Hospital Geral de Santo Antonio, Porto, Portugal

## HONORS AND AWARDS

- 3/09 **Junior Faculty Award**, AD/PD Meeting, Prague, Czech Republic
- 12/08 **EMBO Installation Grant**, EMBO
- 7/08 **Aging Research Prize**, Portuguese Society for Neuroscience and Pfizer
- 3/08 **Best Scientific Article in 2007**, Portuguese Society for Neuroscience
- 8/07 **Marie Curie International Reintegration Grant**, European Commission
- 7/07 **Research Talent Award from the Portuguese Government**
- 7/07 **Science Talent Award from the Portuguese Government**
- 6/07 **Research Grant** from the Michael J. Fox Foundation, USA.
- 6/07 **Research Award** from the Calouste Gulbenkian Foundation (FCG)
- 7/05 **Massachusetts Biomedical Research Corporation, Tosteson Award**, Postdoctoral Fellowship
- 1/03 **Scholarship** from the Calouste Gulbenkian Foundation (FCG)
- 1/99 - 03 **PhD Scholarship** from the Foundation for Science and Technology (Portugal)
- 2/98 **Erasmus Scholarship** from the European Union

5/03	<b>Young Investigator Award</b> , Gordon Research Conference on Triplet Repeat Disorders
5/01	<b>Young Investigator Award</b> , Gordon Research Conference on Triplet Repeat Disorders
11/00	<b>Prize from ICBAS</b> , 1st Place award, 94-98 class at the Biomedical Institute, Porto, Portugal
9/00	<b>Prize from the Engineer Antonio de Almeida Foundation</b> , 1 <sup>st</sup> Place award 94-98 class in Biochemistry, Porto, Portugal

## PROFESSIONAL ACTIVITIES

March 2012	Editorial board, Epigenetics and Neurodegeneration
Jan 2012	Editorial board, Journal of Alzheimer's Disease
May 2009 – present	Member of the Scientific Advisory Board for the European Huntington's Disease Network
May 2009 – present	Member of the Scientific Advisory Board for the European Huntington's Disease Network
July 2008 – present	Contributing Editor, European Journal of Neuroscience
2007 – present	International Forum of Portuguese Researchers (FIIP) – Vice-President
2007	Expert evaluator – European Commission, Framework Program 7
2007	Organizer of the PENS Summer School on: "Molecular Mechanisms in Neurodegeneration", Ofir, Portugal.
2006	Expert evaluator – European Commission, Framework Program 6
2006	Organizer of FENS Symposium: "CAG Triplet Repeat Disorders", Vienna, Austria.
2004	Organizer of FEBS Course: "Neurodegeneration and Disease", Ofir, Portugal.
9/02 – 9/03	Organizer of the Boston Area Yeast Meeting, Boston, USA
1/02 - present	Portuguese American Post-Graduate Association (PAPS) – President/Chairman
9/02	Co-organizer of IV, V, VI and VII Forum of PAPS.
	Organizer and Participant University of Aveiro Center for Cell Biology Symposium - Novel Therapeutic Opportunities in Neurodegenerative Disease
10/02 - 04	Whitehead Institute Scientist – Partnership for Education with teachers from Massachusetts
1/02	Organizer - MIT European Career Fair (over 2500 participants)
12/01	Organizer and Participant - Science for the Non-scientist - MIT Museum

## PUBLICATIONS

Sancenon V, Lee SA, Patrick C, Griffith J, Paulino A, Outeiro TF, Reggiori F, Masliah E, Muchowski PJ	Suppression of $\alpha$ -Synuclein Toxicity and Vesicle Trafficking Defects by Phosphorylation at S129 in Yeast Depends on Genetic Context. Hum Mol Genet. 2012 Feb 21.
Herrera F, Gonçalves S, Outeiro TF	Imaging protein oligomerization in neurodegeneration using bimolecular fluorescence complementation. Methods Enzymol. 2012;506:157-74.
Kemppainen S, Rantamäki T, Jerónimo-Santos A, Lavasseur G, Autio H, Karpova N, Kärkkäinen E, Stavén S, Miranda HV, Outeiro TF, Diógenes MJ, Laroche S, Davis S, Sebastião AM, Castrén E, Tanila H	Impaired TrkB receptor signaling contributes to memory impairment in APP/PS1 mice. Neurobiol Aging. 2011 Dec 29. [Epub ahead of print] PubMed PMID: 22209410
Gerhardt E, Gräber S, Szegő EM, Moiso N, Martins LM, Outeiro TF, Kermer P	Idebenone and Resveratrol Extend Lifespan and Improve Motor Function of HtrA2 Knockout Mice. PLoS One. 2011 Dec 19. Epub 2011 Dec 19. PubMed PMID: 22205977
Herrera F, Outeiro TF	$\alpha$ -Synuclein modifies huntingtin aggregation in living cells. FEBS Lett. 2012 Jan 2;586(1):7-12. Epub 2011 Nov 24. PubMed PMID: 22119730.

- Ribeiro Morais G, Vicente Miranda H, Santos IC, Santos I, Paulo, A, Outeiro TF, Näsström T, Gonçalves S, Sahlin C, Nordström E, Screpanti Sundquist V, Lannfelt L, Bergström J, Outeiro TF, Ingelsson M, Badiola N, de Oliveira RM, Herrera F, Guardia-Laguarta C, Gonçalves SA, Pera M, Suárez-Calvet M, Clarimon J, Outeiro TF, Lleó A, Martins M, Rosa A, Guedes LC, Fonseca BV, Gotovac K, Violante S, Mestre T, Coelho M, Rosa MM, Martin ER, Vance JM, Outeiro TF, Wang L, Borovecki F, Ferreira JJ, Oliveira SA, Swinnen E, Büttner S, Outeiro TF, Galas MC, Madeo F, Winderickx J, Franssens V, Outeiro TF
- Szegő EM, Gerhardt E, Outeiro TF, Kermer P
- de Oliveira RM, Marjanovic Z, Carvalho F, Miltényi GM, Matos JE, Tenreiro S, Oliveira S, Enguita FJ, Stone R, Outeiro TF, Marques S, Batalha VL, Lopes LV, Outeiro TF.
- Jorge CD, Ventura R, Maycock C, Outeiro TF, Santos H, Costa J.
- Herrera F, Tenreiro S, Miller-Fleming L, Outeiro TF
- Hansen C, Angot E, Bergström AL, Steiner JA, Pieri L, Paul G, Outeiro TF, Melki R, Kallunki P, Fog K, Li JY, Brundin P, da Costa G, Guerreiro A, Correia CF, Gomes RJ, Freire A, Monteiro E, Barroso E, Coelho AV, Outeiro TF, Freire AP, Cordeiro C, Büttner S, Delay C, Franssens V, Bammens T, Ruli D, Zaunschirm S, de Oliveira RM, Outeiro TF, Madeo F, Buée L, Galas MC, Winderickx J.
- Tauber E, Miller-Fleming L, Mason RP, Kwan W, Clapp J,
- Synthesis and in vitro evaluation of fluorinated styryl benzazoles as amyloid-probes. *Bioorg Med Chem*. 2011 Dec 15;19(24):7698-710. Epub 2011 Oct 18. PubMed PMID: 22078413.
- Antibodies against alpha-synuclein reduce oligomerization in living cells. *PLoS One*. 2011;6(10):e27230. Epub 2011 Oct 31. PubMed PMID: 22073131.
- Tau Enhances  $\alpha$ -Synuclein Aggregation and Toxicity in Cellular Models of Synucleinopathy. *PLoS One*. 2011;6(10):e26609. Epub 2011 Oct 24. PubMed PMID: 22039514.
- Convergence of miRNA Expression Profiling,  $\alpha$ -Synuclein Interacton and GWAS in Parkinson's Disease. *PLoS One*. 2011;6(10):e25443. Epub 2011 Oct 7. PubMed PMID: 22003392
- Aggresome formation and segregation of inclusions influence toxicity of  $\alpha$ -synuclein and synphilin-1 in yeast. *Biochem Soc Trans*. 2011 Oct;39(5):1476-81. PubMed PMID: 21936837.
- Amyloidogenesis: FIAsh illuminates A $\beta$  aggregation. *Nat Chem Biol*. 2011 Aug 17;7(9):581-2. doi: 10.1038/nchembio.636. PubMed PMID: 21849997
- Dopamine-depletion and increased  $\alpha$ -synuclein load induce degeneration of cortical cholinergic fibers in mice. *J Neurol Sci*. 2011 Jul 18. [Epub ahead of print] PubMed PMID: 21774947.
- Impaired proteostasis contributes to renal tubular dysgenesis. *PLoS One*. 2011;6(6):e20854. Epub 2011 Jun 9. PubMed PMID: 21695262
- Modulating Alzheimer's Disease Through Caffeine: A Putative Link to Epigenetics. *J Alzheimers Dis*. 2011 Mar 21. [Epub ahead of print] PubMed PMID: 21427489.
- Assessment of the Efficacy of Solutes from Extremophiles on Protein Aggregation in Cell Models of Huntington's and Parkinson's Diseases. *Neurochem Res*. 2011 Mar 17. [Epub ahead of print] PubMed PMID: 21416120.
- Visualization of cell-to-cell transmission of mutant huntingtin oligomers. *PLoS Currents: Huntington Disease*. PLoS. 2010 Apr 15 - . Available from: <http://knol.google.com/k/plos/plos-currents-huntington-disease/28qm4w0q65e4w/39>.
- $\alpha$ -Synuclein propagates from mouse brain to grafted dopaminergic neurons and seeds aggregation in cultured human cells. *J Clin Invest*. 2011 Feb 1;121(2):715-25.
- A non-invasive method based on saliva to characterize transthyretin in familial amyloidotic polyneuropathy patients using FT-ICR high-resolution MS. *Proteomics Clin Appl*. 2010 Jul;4(6-7):674-8.
- Synphilin-1 enhances  $\alpha$ -synuclein aggregation in yeast and contributes to cellular stress and cell death in a Sir2-dependent manner. *PLoS One*. 2010 Oct 27;5(10):e13700.
- Functional gene expression profiling in yeast implicates translational dysfunction in mutant huntingtin toxicity. *J Biol*

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- Marques SC, Oliveira CR, Outeiro TF, Pereira CM. Alzheimer's Disease: The Quest to Understand Complexity. *J Alzheimers Dis*. 2010 Jun 16.
- Nakhjavani M, Morteza A, Khajeali L, Esteghamati A, Khalilzadeh O, Asgarani F, Outeiro TF. Increased serum HSP70 levels are associated with the duration of diabetes. *Cell Stress Chaperones*. 2010 May 23.
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- Outeiro, TF. From Mad Cows to Neurotic Yeast: Novel Molecular Approaches to Understand Neurodegeneration. *Microsc Microanal*. 2008 Sep;14 Suppl 3:105-6.
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- Fleming, L., Giorgini, F. and Outeiro, T.F.  
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Cho, S. H., Hyman, B.T.,  
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Kazantsev, A. G.  
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- Outeiro, T.F. and Muchowski, P.J.  
Rochet JC, Outeiro TF,  
Conway KA, Ding TT, Volles MJ,  
Lashuel HA, Bieganski RM,  
Lindquist SL, Lansbury PT  
Derkatch, I., Uptain, S.,  
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- Mechanisms of Disease II – Cellular Protein Quality Control, Seminars in Pediatric Neurology, 2007 Mar;14(1):15-25.
- Selective Dopaminergic Neuron Loss and Upregulation of Chaperone Protein mRNA in an Adeno-Associated Viral Vector Model of Parkinson's Disease, J. Neurochem, 2007 Mar;100(6):1449-57.
- Small heat shock proteins protect against alpha-synuclein-induced toxicity and aggregation. Biochem Biophys Res Commun. 2006 Dec 22;351(3):631-8.
- Detection of novel intracellular a-synuclein oligomeric species by fluorescence lifetime imaging, FASEB J., FASEB J. 2006 Oct;20(12):2050-7
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- Molecular genetics approaches in yeast to study amyloid diseases. J Mol Neurosci. 2004;23(1-2):49-60
- Interactions Among alpha-Synuclein, Dopamine, and Biomembranes: Some Clues for Understanding Neurodegeneration in Parkinson's Disease. J Mol Neurosci. 2004;23(1-2):23-34
- Effects of Q/N, polyQ and non-polyQ amyloids on the *de novo* formation of the [PSI<sup>+</sup>] prion in yeast and aggregation of Sup35 *in vitro*, PNAS, 2004; 101(35) 12934-9.

Outeiro, T.F. and Lindquist	Yeast cells provide insight into alpha-synuclein biology and pathobiology. <i>Science</i> . 2003 Dec 5;302(5651):1772-5
Willingham, S, Outeiro, T.F., Devit, MJ, Lindquist, S and Muchowski, PJ	Yeast genes that enhance the toxicity of a mutant huntingtin fragment or alpha-synuclein. <i>Science</i> . 2003 Dec 5;302(5651):1769-72
Resende, CG, Outeiro, T.F., Sands, L, Lindquist, S and Tuite, M	Prion protein gene polymorphisms in <i>Saccharomyces cerevisiae</i> . <i>Mol Microbiol</i> . 2003 Aug;49(4):1005-17

## BOOKS

Vaqueiro-Lopes, L. and Outeiro, T.F.	Synaptic dysfunction in Parkinson's disease: from protein misfolding to functional alterations, in press.
Marques, S.C. F., Pereira, C.M.F., Outeiro, T.F.	Epigenetics and Neurodegeneration: A Connection Overlooked, <i>Novascience</i> , in press.
Gitler, A. and Outeiro, T.F.	Unravelling the Molecular Basis of Parkinson's Disease Using Yeast Models, in press.
Outeiro, T.F., editor	Protein Misfolding in Biology and Disease, <i>Research Signpost</i> , <i>Novascience</i> in press.
Outeiro, T.F. and Kazantsev, A.	Therapeutic Intervention in the Neurotoxicity of Misfolded Proteins, in press.
Outeiro, T.F. and Hyman, B.T.	Protein Aggregation Disorders, <i>in Neurobiology of Disease</i> , 2006.
Singer, M., Outeiro, T.F. and Lindquist, S.	Thermotolerance, Metabolism and Development: The Many Flavors of Trehalose, <i>in Food Biotechnology</i> , 2005.

## PATENTS

Outeiro, T.F., Lindquist, S., Labaudiniere, Fleming, J., R., Bulawa, C.	INHIBITION OF A-SYNUCLEIN TOXICITY. U.S. 60/787,113
Outeiro, T. F., and Lindquist, S.	YEAST ECTOPICALLY EXPRESSING ABNORMALLY PROCESSED PROTEINS AND USES THEREFOR
Outeiro, T.F., Krobitsch, S. and Lindquist, S.	YEAST AS A MODEL SYSTEM FOR NEURODEGENERATIVE DISEASE

## INVITED TALKS

July 2009	15,	University of Ulm, Germany
July 2009	13,	European Society for Neurochemistry, Leipzig, Germany
July 2009	11,	Kopfklinik, Erlangen, Germany
June 2009	4,	Amsterdam, The Netherlands
May 2009	12,	Bilkent University, Turkey
March, 2009		University of Leuven, Belgium
December 5, 2008		University of Leicester, UK
November 2008		Instituto de Tecnologia Química e Biológica, Lisbon, Portugal
September 2008		EPFL, Lausanne, Switzerland
February 27, 2008		From Mad Cows to Neurotic Yeast: Novel Strategies to Understand Neurodegeneration. Faculdade de Ciências de Lisboa, Portugal
February 20, 2008		Mad Cows, Neurotic Yeast, and Back to the Future. Fundação Calouste Gulbenkian
December 13, 2007		Unraveling the molecular mechanisms of neurodegeneration: From cells to drugs, Uppsala University, Sweden
November		Top Models: What are they teaching us about Parkinson's Disease.

22, 2007	Neurodegenerative diseases: Science and the Mind. Faculty of Pharmacy, Lisbon, Portugal.
November 19, 2007	From Academia to Biotech: US and Portuguese Examples. Pharmaceutical Innovation: A New R&D Strategy in the EU. Viseu, Portugal.
October 26, 2007	Applied Biology Forum. University of Minho, Braga, Portugal.
October 16, 2007	Science and Technology in Portugal. Fórum Novas Fronteiras, Centro Cultural de Belém, Lisboa, Portugal. Promoted by and with the participation of the Prime Minister of Portugal.

### **POSTGRADUATE TEACHING**

July 2009	PENS Summer School, Gunzburg, Germany
March 2009	ITQB PhD Program
February 2009	Neurodegenerative Diseases Course, Gulbenkian PhD Program for Medical Doctors.
January 2009	Protein Misfolding Course, GABBA PhD Program.
November 2008	Protein Misfolding in Biology and Disease, Master's Program in Neurosciences, Faculty of Medicine, Lisbon, Portugal.
February 2008	Secrets of the genome and biobanks of secrets, Center for Biomedical Law, University of Coimbra
January 2008	PhD Program, University of Coimbra
December 2007	Protein Misfolding in Synucleinopathies, Faculty of Sciences and Technology, Monte da Caparica, Portugal.
December 2007	Protein Misfolding in Biology and Disease, Master's Program in Neurosciences, Faculty of Medicine, Lisbon, Portugal.
July 2007	PENS Summer School, Ofir, Portugal.
July 2004	FEBS Summer School, Ofir, Portugal.