



## Maria José Braga Marques Ribeiro, PhD

University of Coimbra  
Coimbra Institute for Biomedical Imaging and Translational Research (CIBIT), ICNAS  
and  
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## RESUMÉ

I completed my BSc in physics in 1996 by the University of Porto and obtained my DPhil in neurosciences in 2003 by the University of Sussex, UK. Currently, I am a neuroscientist at CIBIT-ICNAS, University of Coimbra, with a research contract by the Faculty of Medicine of the University of Coimbra.

I am interested in the neurophysiological mechanisms of cognition and in applying this knowledge to develop efficient strategies to improve brain function and revert cognitive impairments.

During my PhD and first postdoctoral position, I studied the molecular and cellular mechanisms of learning and memory in an animal model. Since 2007, I switched my research to human neuroscience focusing on understanding cognition at the systems' level albeit supported by the current neurophysiological understanding of cellular neuroscience. Since 2015, I have been working in the field of ageing. I am interested in understanding the neural changes that occur in ageing and how they are causal to changes in cognitive function with the aim of developing effective strategies to delay and revert age-related cognitive decline. In particular, my research focuses on exploring a prominent hypothesis that states that the noradrenergic system, as part of the ascending brainstem arousal system, plays a protective role in the brain against age-related damage.

**RESEARCH EXPERTISE** human cognitive neuroscience; non-invasive neuroimaging: brain structural and functional MRI and EEG; physiological measurements of arousal; behavioural sciences; computational models of behaviour; data science and statistics; MATLAB programming skills.

**OUTPUTS** 26 peer-reviewed scientific papers (95% in Q1 in the JCR) | 12 papers as first and corresponding author | cumulative impact factor of 90 | h-index of 15 | over 700 citations | over 60 oral and poster communications | three prizes for best communication.

**SUPERVISIONS** Supervisor or co-supervisor of four PhD students (2 ongoing), 16 master's students (3 ongoing), one International Erasmus student, 16 undergraduate research internships (2 ongoing). Regular member of master's theses jury.

**MANAGEMENT OF SCIENTIFIC PROJECTS** Principal Investigator of an FCT project (EXPL/PSI-GER/0349/2021, 5 team members) | Scientific manager of a 4-year FCT project (PTDC/SAU-ORG/118380/2010, 8 team members, with outputs exceeding the expectations) | Principal Investigator of a 2-year project (III/14/2008, 6 team members) | Two individual FCT postdoctoral fellowships (SFRH/BPD/102188/2014; SFRH/BPD/34392/2006) | One PhD fellowship (PRAXIS XXI/BD/13704/97)

## PROFESSIONAL EXPERIENCE

- 2018-present** Research Associate (*Investigadora Doutorada de nível inicial*) at the Faculty of Medicine and Coimbra Institute for Biomedical Imaging and Translational Research (CIBIT), Institute of Nuclear Sciences Applied to Health (ICNAS) of the University of Coimbra, Portugal
- 2015-2018** FCT Postdoctoral Fellow at iCBR/IBILI, Faculty of Medicine, University of Coimbra, Portugal. Individual fellowship with reference SFRH/BPD/102188/2014. Supervisor: Professor Miguel Castelo-Branco. Project title: The ageing of neuromodulation and the slowdown of cognitive processing
- 2011-2014** Research Associate (*Investigadora Auxiliar Convitada*) at IBILI, Faculty of Medicine of the University of Coimbra. Three-year position funded by the QREN project “Do It: Desenvolvimento e Operacionalização da Investigação e Translação”
- 2007-2011** FCT Postdoctoral Fellow at IBILI, Faculty of Medicine, University of Coimbra, Portugal. Individual fellowship with reference SFRH/BPD/34392/2006. Supervisor: Professor Miguel Castelo-Branco. Project title: Mechanisms of disease underlying cognitive dysfunction in Neurofibromatosis type 1
- 2003-2006** Research Fellow at the School of Life Sciences of the University of Sussex, Brighton, UK. Postdoctoral contract funded by the Biotechnology and Biological Sciences Research Council. Supervisors: Professor Paul Benjamin and Professor Michael O’Shea. Project title: An integrated approach to long-term memory formation
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## EDUCATION

- 1998-2003** PhD in Neuroscience by the Graduate Division of Biology of the University of Sussex, Brighton, UK. Thesis: Molecular mechanisms of appetitive learning in the pond snail *Lymnaea stagnalis*. Supervisor: Professor Paul Benjamin; Co-supervisor: Professor George Kemenes
- 1996-1997** Advanced courses in Biology – 1<sup>st</sup> year of the Gulbenkian’s PhD programme in Biology and Medicine.
- 1992-1996** BSc degree in Physics by the Faculty of Sciences of the University of Porto, Portugal
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## COORDINATION AND PARTICIPATION IN SCIENTIFIC PROJECTS

### AS PRINCIPAL INVESTIGATOR

- 2022-2023** A functional account of the noradrenergic system in healthy ageing and decision-making. FCT. Ref: EXPL/PSI-GER/0349/2021
- 2008-2012** Genetics and brain function in Neurofibromatosis type 1. Instituto de Investigação Interdisciplinar, University of Coimbra. Ref: III/14/2008

### AS TEAM MEMBER

- 2012-2015** Translating the Inhibition Hypothesis in Neurofibromatosis Type 1 into the Human Disease. PI - Professor Miguel Castelo-Branco. FCT Ref: PTDC/SAU-ORG/118380/2010
- 2009-2012** Vision and action processing in neurodevelopmental disorders: from disease mechanisms to new interventional strategies. PI - Professor Miguel Castelo-Branco. FCT Ref: PIC/IC/82986/2007
- 2009-2013** Mechanisms of neurosensorial inhibition associated with the cognitive deficits in Neurofibromatosis type 1: psychophysics, neurophysiology and functional and structural neuroimaging. PI - Professor Eduardo Silva. FCT Ref: PIC/IC/83155/2007
- 2003-2006** An integrated approach to long-term memory. Research Fellow at the School of Life Sciences of the University of Sussex, Brighton, UK. PI - Professor Paul Benjamin. BBSRC
- 2002** Research Officer at the School of Life Sciences of the University of Sussex, Brighton, UK. PI – Professor Paul Benjamin. BBSRC

**OTHER MANAGING ROLES**

- 2017-present** Founding member and coordinator of the European Network of Postdoctoral Associations (ENPA)
- 2015-present** Coordinator of the Projects' Committee of the Postdocs@UC Forum
- 2015-2017** Elected Representative of CNC.IBILI Postdoctoral Researchers
- 2011-2015** Member of the coordinating committee of the Postdoc Forum PF2MUC

**SUPERVISION AND GUIDANCE ACTIVITIES****PHD THESIS ADVISOR**

- Ongoing** Supervisor of PhD student Hicran Beşikci, in collaboration with the Faculty of Sport Sciences and Physical Education of the University of Coimbra. FCT fellowship with reference UI/BD/154343/2022. *Integrating cognitive and physical exercise to enhance brain arousal and improve cognitive function in older people with a focus on decision-making*
- Ongoing** Co-supervisor of PhD student Kaan AKALP, in collaboration with the Faculty of Sport Sciences and Physical Education of the University of Coimbra. Individual FCT fellowship. *The mediating effects of aerobic and cognitive training on cognition and markers of neurogenesis and neuroinflammation in older persons with or without mild cognitive impairment*
- 2019-23** Co-supervisor of PhD student, Filipa Júlio. Faculty of Psychology, University of Coimbra *Everyday Executive Function in Parkinson and Huntington Disease: a novel ecological approach* (concluded with distinction and praise)
- 2009-16** Co-supervisor of PhD student, João Valente Duarte. FMUC *The role of long-range neural oscillatory synchrony as a mechanism underlying perceptual coherence* (concluded with distinction and praise)

**MSC THESIS ADVISOR**

- Ongoing** Ana Costa, Psychology - co-supervision – supervisor Luís Pires, Faculty of Psychology and Educational Sciences, University of Coimbra *Cardiorespiratory fitness and cognitive function in older people*
- 2024** Roberto dos Santos, Molecular Neuroscience and Translation – co-supervision – supervisor André Peres, Faculty of Psychology and Educational Sciences – University of Coimbra *Functional MRI biomarkers of memory deterioration across the progression of abnormal cognitive decline in aging*
- 2024** José Gomes, Molecular Neuroscience and Translation – co-supervision – supervisor André Peres, Faculty of Psychology and Educational Sciences – University of Coimbra *Neural mechanisms of visual processing of tools*
- 2023** Sara Oliveira, Biomedical Engineering – in collaboration with Luís Rama and Ana Maria Teixeira, Faculty of Sport Sciences and Physical Education, University of Coimbra *The effect of physical activity on pupil-linked arousal responses associated with decision uncertainty and feedback processing in older adults*
- 2023** Ana Marques, Biomedical Engineering – in collaboration with Davide Borra, University of Bologna and Marco Simões, Department of Informatics Engineering - University of Coimbra *Using the body to help predict the brain: integration of body and brain physiological signals to decode visual attention and neural responses to objects*
- 2021-23** Gonçalo Santos, Biomedical Eng. – co-supervision – supervisor Gabriel Costa, University of Coimbra *A study of cortical mechanisms for solving ambiguity using non-invasive human electrophysiology*

- 2021-22** Rogério Medeiros, Biomedical Engineering – in collaboration with Marco Simões and Paulo Carvalho, Department of Informatics Engineering - University of Coimbra  
Heart-brain interaction in visual perception (concluded)
- 2021-22** Guilherme Oliveira, Biomedical Engineering – co-supervision – supervisor Gabriel Costa U. of Coimbra  
Decision in visual perception: cortical mechanisms in the interpretation of ambiguous visual stimuli
- 2020-22** Nuno Sousa, Engineering Physics, University of Coimbra  
Body-brain interactions in visual perception (concluded)
- 2019-20** Catarina Gomes, Biomedical Engineering, University of Coimbra.  
Age-related Changes in Arousal Modulation during Perceptual Decision-making (concluded)
- 2016-17** Andreia Verdade, Biomedical Engineering, University of Coimbra.  
Motor excitability modulation during the delay period - a TMS and pupillometry study (concluded)
- 2016-17** Lea Velez, Biomedical Engineering, University of Coimbra.  
Computational model of the effect of alpha oscillatory phase on the timing of neuronal activations and resulting motor responses (concluded)
- 2014-16** Inês Vaz, Biomedical Engineering, UC - in collaboration with Joana Cabral Oxford University.  
Computational modelling of brain states (concluded)
- 2014-15** António Almeida, Biomedical Eng, UC - in collaboration with Joana Cabral Oxford University.  
Role of inter-hemispherical connections in resting-state functional connectivity (concluded)
- 2013-14** Joana Paiva, Biomedical Engineering, University of Coimbra. (concluded)  
Predicting lapses in attention: a study of brain oscillations, neural synchrony and eye measures
- 2009-10** Otilia Cardoso d'Almeida, Biomedical Engineering – co-supervision – supervisor Miguel Castelo-Branco  
A disease model to understand neural mechanisms of visual perception, Neurofibromatosis type 1

#### INTERNATIONAL ERASMUS STUDENTS

- 2022** Francesca Aprile, Industrial Bioengineering, University of Naples Federico II, Italy  
*Heart-brain interactions in ageing*

#### UNDERGRADUATE RESEARCH PROJECTS

- 2024** Diogo Santos, Biomedical Engineering, FCTUC. *Ageing-related brain structural changes and their relation with brain and cognitive health. Co-supervisor: Júlia Soares*
- 2023** Bárbara Marques Rodrigues, Biomedical Engineering, FCTUC. *Magnetic resonance imaging of the human locus coeruleus in ageing.*
- 2022** Filipa Machado, Biomedical Engineering, FCTUC. *Brain-body interactions in visual perception.*
- 2022** Ana Sofia Monteiro, Biomedical Engineering, FCTUC. *Decision-making under uncertainty across the lifespan.*
- 2021-2024** Supervision of Biomedical Engineering students. Internships organized by the Institute of Electrical and Electronics Engineers (IEEE) program Colab Sessions
- Zoé Morgado - *The effect of ageing on brain structure (ongoing)*
  - Dulce Travassos - *Effect of stimulus position on ambiguous motion perception (ongoing)*
  - Ana Marques – *The effect of ageing on brain structure (2022)*
  - Sara Oliveira - *Decision-making under uncertainty across the lifespan (2022)*
  - Nuno Rodrigues – *Classification of visual evoked potentials according to image categories (2022)*
  - Filipa Moreira – *Decision-making under uncertainty (2021)*
  - Ana Gabriela Mendes – *Modulation of cardiac cycle during decision-making (2021)*
- 2020** Supervision of Biology students, FCTUC - Daniela Nunes and Simão Olaio. Research project: *Analysis of white-matter brainstem tracks using diffusion tensor imaging data.* Co-supervised by José Bourbon-Teles.

- Since 2015** Collaboration in the annual supervision of international medical students within the scope of the exchange organized by the International Federation of Medical Student's Associations, involving discussion of ongoing scientific projects, and science demonstrations.
- 2017** Italian medical student, Maria Luisa Poli. *The effect of ageing on heart rate and heart rate variability*. Exchange organized by the International Federation of Medical Student's Associations.
- 2017** Research project of Biomedical Engineering student, FCTUC - Gonçalo Duarte. *Analysis of heart rate and heart rate variability*.
- 2013** Research project of Biomedical Engineering student, FCTUC - Joana Paiva. *Development of a psychophysical task to study lapses of attention*.
- 2005** Undergraduate research project at University of Sussex, Brighton, UK. *Activation of MAPK in long-term memory formation following classical conditioning in *Lymnaea stagnalis**.

### SUMMER RESEARCH INTERNSHIPS

- 2023** Bárbara Marques Rodrigues, Biomedical Engineering, FCTUC. *Magnetic resonance imaging of the human locus coeruleus in ageing*.

### MEMBER OF MSC THESIS JURY

- 2024** Rita Inácio Matos, Biomedical Engineering, FCTUC. Jury president. Title: *Identification of non-convulsive status epilepticus in critically ill patients using Artificial Intelligence*
- 2024** Joana Filipa da Silva Pires, Biomedical Engineering, FCTUC. Jury president. Title: *Prediction of epileptic seizure based on image information derived from focal electrodes and deep classifiers*
- 2024** Diogo Oliveira Pato, Biomedical Engineering, FCTUC. Jury president. Title: *EEG study of spontaneous brain response to an unexpected adverse event: use of a neutral stimulus*
- 2024** Jaime Manuel Matos Godinho, Biomedical Engineering, FCTUC. Jury president. Title: *Development of an EEG database for diagnosis of Non-Convulsive Status Epilepticus*
- 2024** Ana Patrícia Pedrosa Fernandes, Clinical Neuropsychology, FPCEUC. Jury president. Title: *Unconscious Influences on Expected Value*
- 2024** Ana Sofia Lourenço Bernardino, Biomedical Engineering, FCTUC. Jury president. Title: *Towards clinically interpretable feature engineering methods for EEG Pre-Seizure Characterization*
- 2023** Carolina Almeida Lopes, Biomedical Engineering, FCTUC. Jury president. Title: *Brain activity in threat situations*
- 2023** Inês Martins Andrade, Biomedical Engineering, FCTUC. Title: *On the Performance of Seizure Prediction Methods Across Different Databases*
- 2021** Ana Rita Paulete Correia, Biomedical Engineering, FCTUC. Title: *Assessing Emotional States from Biosignals in Autistic and Neurotypical Developed Individuals*
- 2021** Ana Catarina Rocha Oliveira, Biomedical Engineering, FCTUC. Title: *Sleep-Awake cycle evaluation from long-term EEG data: assessing the impact in epilepsy seizure prediction*
- 2021** Mariana Isabel da Silva Tavares, Biomedical Engineering, FCTUC. Title: *EEG Epilepsy Seizure Prediction: the Post-Processing Stage as a Chronology*
- 2020** Manuel da Silva Santos, Biomedical Engineering, FCTUC. Title: *Brain signals of perceptual inference: the role of oscillations in interpreting ambiguous stimuli*
- 2019** Júlio Cordeiro Medeiros, Biomedical Engineering, FCTUC. Title: *Software code complexity assessment using EEG features: Towards a new software engineering paradigm using biofeedback*
- 2017** Mariana Cortesão, Biomedical Engineering, FCTUC. Title: *A robust classifier for the automatic detection of transient events in sleep EEGs*

- 2017** Daniel Tavares Ribeiro, Biomedical Engineering, FCTUC. Title: *Desenvolvimento de Sistemas para Recolha, Processamento e Análise de Sinal de EEG para deteção de Sonolência*
- 2014** Sara Santos, Biomedical Engineering, FCTUC. Title: *The role of the core and extended face networks in visual perception and high-level social cognition*
- 2014** Gilberto Silva, Biomedical Engineering, FCTUC. Title: *A direct test of the binding by synchrony hypothesis in humans: the neural correlates of the coherent object perception*
- 2012** Sónia Madeira Gomes, Medicine, FMUC. Title: *Functional Localizers as a tool for clinical mapping*
- 2011** Carlos Amaral, Biomedical Engineering, FCTUC. Title: *Decoding neuronal patterns resulting from visual responses to animations*
- 2011** Nuno Lopes, Biomedical Engineering, FCTUC. Title: *Monitorização cerebral inteligente durante a anestesia (MONIA)*
- 2011** André Santos, Biomedical Engineering, FCTUC. Title: *Visual-callosal white matter pathways in Neurofibromatosis type 1: a diffusion tensor imaging - fiber tracking study*

## TEACHING

### GRADUATE TEACHING

- Since 2011** Lecturer in the Biophysics course of the FMUC's Doctoral Programme for Health Sciences
- Since 2020** Lecturer in EIT Health Ageing PhD School, Advanced Imaging Methods in Neuroscience
- 2011-12** Lecturer in the Career course of the FMUC's Doctoral Programme for Health Sciences
- 2009-10** Lecturer in the course "Structure-function correlations in biomedicine: lessons from the nervous system" of the FMUC's Doctoral Programme for Health Sciences
- 2008-09** Lecturer in the Neurodevelopment course of the UC's Doctoral Programme in Psychology

### UNDERGRADUATE TEACHING

*Associate tutor* at the Biology Department of the University of Sussex, Brighton, United Kingdom, teaching practical and tutorial classes on the following courses:

- 2006-07** Human Physiology • Neuroscience and Behaviour
- 2004-05** Animal Behaviour • Neuroscience and Behaviour • Human Physiology
- 2000-01** Neuroscience Techniques • Eukaryotic Genetics

### SUMMER SCHOOLS

- Since 2021** Lecturer at CIBIT's Summer School on neuroscience for undergraduate and master's students.
- 2012-13** Lecturer in the 1st International Summer School on Advances in Ophthalmic Optics and Optometry 'Learning Related Vision Problems', Aveiro 14-16 September 2012

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## ACTIVE PARTICIPATION IN THE COMMUNITY

### COLLABORATION IN REVIEWING

### AD HOC EVALUATION OF RESEARCH GRANTS

Member of the National Fellowships Committee for Graduate Women in Science ([www.gwis.org](http://www.gwis.org)), 2018.  
Referee for the Research Foundation - Flanders (FondsWetenschappelijkOnderzoek - Vlaanderen), 2014.

## AD HOC REVIEWER

Journals: Nature Reviews Neuroscience, Communications Biology (Springer Nature), iScience (Cell Press), Translational Psychiatry, Virtual Reality (Springer Nature), Neurobiology of Aging, Human Brain Mapping, Scientific Reports, Neuroscience Letters, Investigative Ophthalmology & Visual Science (IOVS), Clinical Neurophysiology, American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, Biological Psychology, Brain Research, Games for Health Journal, The Journal of Integrative Neuroscience, Brazilian Journal of Medical and Biological Research, AIMS Neuroscience, Future Neurology, Brain Sciences and Clinical Ophthalmology.

Abstracts' referee for the Annual Meeting of the OHBM 2011, 2014 and 2017.

## MEETINGS ORGANIZATION

- 2020** Co-organization of Researcher's Day @ University of Coimbra, 24<sup>th</sup> Nov 2020
- 2017** Member of the local organizing committee of the 7th Iberian Congress on Perception, July 6-7th, 2017, in Coimbra, Portugal
- 2016** Member of the organizing committee of the 6<sup>th</sup> CNC.IBILI Postdoc Forum Symposium: Variability and adaptation in neurons and circuits. Faculty of Medicine, University of Coimbra
- 2014-16** Member of the organizing committee of Wondrous Wednesdays | Postdoc Science Club - informal scientific discussions between post-doctoral scientists of FMUC, CNC and IBILI, aiming at providing a platform for scientific growth.
- 2013** Member of the organizing committee of the 4th PF2MUC Symposium: Personalized Medicine: myth or reality? Faculty of Medicine, University of Coimbra
- 2013** Member of the organizing committee of the 3rd PF2MUC Symposium: Neurobiology of learning and memory Faculty of Medicine, University of Coimbra

## SCIENCE OUTREACH

Regular participation in activities organized within the scope of *Brain Awareness Week* and *Science and Technology Week* - demonstrations of cognitive neuroscience techniques, including visits to schools and open labs.

- Ongoing** Team member of funded project bringing science to primary school children, starting in Sep 2022 and running for two school years at the Escola Básica de Montes Claros in Coimbra.
- 2021** Participation in round table discussion and with recorded video about my science work aimed at children and adolescents within the scope of the Multilingual kids review for OHBM 2021
- 2020** Invited speaker at the Women in Science and Technology: Breakthroughs & Current Figures, organized by IEEE UC Student Branch
- 2018** Science demonstration at the Oliveira do Bairro's Science Festival
- 2018** Speaker at 2ª Edição da Semana Aberta da Escola de Educação Sénior: presentation of study results for students of the Coimbra's University of Third Age, Instituto Humanus
- 2016** Invited speaker at ComceptCon 2016: Esmiuçar o Cérebro
- 2016** Vision workshop for 6<sup>th</sup> grade students at Agrupamento de Escolas Infante D. Pedro de Penela
- 2016** Mentor for The Junior Academy of the New York Academy of Sciences
- 2015** Coordination of an advanced course on visual neuroscience at the Instituto de Educação e Cidadania – Mamarrosa, Oliveira do Bairro – 7 weeks practical course for secondary school students
- 2014** "Vem Fazer Muita Ciência (Vem à FMUC)" – Scientific Rail at FMUC for secondary school students
- 2013** Presentation of scientific results to hospital staff at the Centro de Desenvolvimento da Criança do Hospital Garcia de Orta
- 2012** Discover your brain – activity for families at the Science Museum of the University of Coimbra
- 2010** Presentation of scientific results and ongoing study to patients and their families at the Portuguese Neurofibromatosis Patients' Association (APNF), Lisbon

## PUBLICATIONS

Reference	Year	Quartile (JCR)	Citations	Impact Factor year of publication
			Google Scholar	
Kaan Akalp, José Pedro Ferreira, Carlos M. Soares, Maria José Ribeiro, Ana Maria Teixeira. <b>The effects of different types of exercises on cognition in older persons with mild cognitive impairment: A systematic review and meta-analysis.</b> Archives of Gerontology and Geriatrics. Vol 126, 105541, ISSN 0167-4943, <a href="https://doi.org/10.1016/j.archger.2024.105541">https://doi.org/10.1016/j.archger.2024.105541</a> .	2024	Q1	2	3.5
Júlio, F., Ribeiro, M. J., Simões, M. R., Castelo-Branco, M., & Januário, C. <b>Assessing the impact of age on everyday cognitive function with a virtual environment task: The EcoKitchen.</b> Applied neuropsychology. Adult, 1–11. Advance online publication. <a href="https://doi.org/10.1080/23279095.2023.2265521">https://doi.org/10.1080/23279095.2023.2265521</a>	2023	Q4	1	1.700
Ribeiro MJ, Castelo-Branco M. <b>Slow fluctuations in ongoing brain activity decrease in amplitude with ageing yet their impact on task-related evoked responses is dissociable from behavior</b> Elife;11:e75722. DOI: 10.7554/eLife.75722.	2022	Q1	10	8.140
Júlio F, Ribeiro MJ, Morgadinho A, Sousa M, van Asselen M, et al. <b>Cognition, function and awareness of disease impact in early Parkinson's and Huntington's disease</b> Disability and Rehabilitation Mar;44(6):921-939. Epub 2020 Jul 3. DOI: 10.1080/09638288.2020.1783001	2022	Q1	12	2.222
Ribeiro MJ, Castelo-Branco M. <b>Neural correlates of anticipatory cardiac deceleration and its association with the speed of perceptual decision-making, in young and older adults.</b> Neuroimage. Jun 5;199:521-533. DOI: 10.1016/j.neuroimage.2019.06.004	2019	Q1	28	5.426
Ribeiro M.J. and Castelo-Branco M. <b>Age-related differences in event-related potentials and pupillary responses in cued reaction time tasks.</b> Neurobiology of Aging. Vol. 73: 177-189 DOI: 10.1016/j.neurobiolaging.2018.09.028	2019	Q1	19	4.454
Júlio F, Ribeiro MJ, Patrício M, Malhão A, Pedrosa F, Gonçalves H, Simões M, van Asselen M, Simões MR, Castelo-Branco M, Januário C <b>A Novel Ecological Approach Reveals Early Executive Function Impairments in Huntington's Disease</b> Frontiers in Psychology. Vol. 10: 585 DOI: 10.3389/fpsyg.2019.00585	2019	Q1	23	2.129
Rodrigues, A.P., Rebola, J., Jorge, H., Ribeiro, M.J., Pereira, M., Castelo-Branco, M. and van Asselen, M. <b>Visual perception and reading: new clues to patterns of dysfunction across multiple visual channels in developmental dyslexia.</b> Investigative Ophthalmology & Visual Science. Vol. 58: 309–317. DOI: 10.1167/iovs.16-20095	2017	Q1	20	3.388
Rodrigues A.P., Rebola J, Jorge H, Ribeiro MJ, Pereira M, Castelo-Branco M, van Asselen M. <b>Evidence for a differential interference of noise in sub-lexical and lexical reading routes in healthy participants and dyslexics.</b> Cogn Neuropsychol. Mar 29: 1-10. DOI: 10.1080/02643294.2017.1299001	2017	Q3	2	1.796



Reference	Year	Quartile (JCR)	Citations	Impact Factor year of publication
			Google Scholar	
Ribeiro, M.J., Paiva, J.S., and Castelo-branco, M. <b>Spontaneous fluctuations in sensory processing predict within-subject reaction time variability.</b> Frontiers in Human Neuroscience. May 9; 10: 200. DOI: 10.3389/fnhum.2016.00200	2016	Q1	34	3.209
Silva, G., Ribeiro, M.J., Violante, I.R., Costa, G., Castelo-Branco, M. <b>Peripheral attentional targets under covert attention lead to paradoxically enhanced alpha desynchronization in Neurofibromatosis Type 1.</b> PLoS One. Feb 16; 11(2):e0148600. DOI: 10.1371/journal.pone.0148600	2016	Q1	14	2.806
Ribeiro M.J., Violante I.R., Edden R.A.E. and Castelo-Branco M. <b>Abnormal relationship between GABA, neurophysiology and impulsive behavior in neurofibromatosis type 1.</b> Cortex. Vol. 64: 194-208. DOI: 10.1016/j.cortex.2014.10.019	2015	Q1	76	4.314
Duarte, J. V., Ribeiro, M. J., Violante, I. R., Cunha, G., Silva E. and Castelo-Branco, M. <b>Multivariate pattern analysis reveals subtle brain anomalies relevant to the cognitive phenotype in NF1.</b> Human Brain Mapping. Jan; 35(1):89-106. DOI: 10.1002/hbm.22161	2014	Q1	51	5.969
Ribeiro, M. J., D'Almeida, O. C., Ramos, F., Saraiva, J., Silva E. and Castelo-Branco, M. <b>Abnormal late visual responses and alpha oscillations in Neurofibromatosis type 1: a link to visual and attention deficits.</b> Journal of Neurodevelopmental Disorders. Vol. 6(1): 4.	2014	Q1	32	3.268
Violante I.R., Ribeiro M.J., Edden R.A.E., Guimarães P., Bernardino I., Rebola J., Cunha G., Silva E and Castelo-Branco M. <b>GABA deficit in the visual cortex of patients with NF1: genotype-phenotype correlations and functional impact.</b> Brain. Vol. 136(Pt 3): 918-25. DOI: 10.1093/brain/aws368	2013	Q1	74	10.226
Violante IR, Ribeiro MJ, Silva E and Castelo-Branco M. <b>Gyrification, cortical and subcortical morphometry in Neurofibromatosis type 1: an uneven profile of developmental abnormalities.</b> Journal of Neurodevelopmental Disorders. Vol. 5(3):3. DOI: 10.1186/1866-1955-5-3	2013	Q1	51	3.705
Violante IR, Ribeiro MJ, Cunha G, Bernardino I, Duarte JV, Ramos F, Saraiva J, Silva E, Castelo-Branco M.. <b>Abnormal Brain Activation in Neurofibromatosis Type 1: A Link between Visual Processing and the Default Mode Network.</b> PLoS One. Vol. 7(6):e38785. Epub 2012 Jun 18. DOI: 10.1371/journal.pone.0038785	2012	Q1	49	3.730
Ribeiro, M.J., Violante, I. R., Bernardino, I., Ramos, F., Saraiva, J., Reviriego, P., Upadhyaya, M., Silva, E. and Castelo-Branco, M. <b>Abnormal achromatic and chromatic contrast sensitivity in Neurofibromatosis type 1.</b> Investigative Ophthalmology & Visual Science. Vol. 53(1):287-93. DOI: 10.1167/iovs.11-8225	2012	Q1	25	3.441
Ribeiro, M. J. and Castelo-Branco, M. <b>Psychophysical channels and ERP population responses in human visual cortex: area summation across chromatic and achromatic pathways.</b> Vision Research, Vol. 50 N <sup>o</sup> . 13, 1283-91. DOI: 10.1016/j.visres.2010.04.017	2010	Q1	9	3.441

Reference	Year	Quartile (JCR)	Citations	Impact Factor year of publication
Ribeiro M, Schofield M, Kemenes I, Benjamin PR, O'Shea M, Korneev SA. <b>Atypical guanylyl cyclase from the pond snail <i>Lymnaea stagnalis</i>: cloning, sequence analysis and characterization of expression.</b> <i>Neuroscience</i> , Vol. 165, 794–800. DOI: 10.1016/j.neuroscience.2009.11.008	2010	Q1	10	3.215
Ribeiro MJ, Straub V, Schofield MG, Picot J, Benjamin PR, O'Shea M and Korneev S. <b>Characterization of NO-sensitive guanylyl cyclase: expression in an identified interneuron involved in NO–cGMP-dependent memory formation.</b> <i>European Journal of Neuroscience</i> , Vol. 28, Nº. 6, 1157–1165. DOI: 10.1111/j.1460-9568.2008.06416.x	2008	Q1	21	3.385
Ribeiro MJ, Schofield MG, Kemenes I, O'Shea M, Kemenes G and Benjamin PR. <b>Activation of MAPK is necessary for long-term memory consolidation following food-reward conditioning.</b> <i>Learning &amp; Memory</i> , Vol.12, No. 5, 538-45.	2005	Q1	65	4.142
Ribeiro MJ, Serfozo Z, Papp A, Kemenes I, O'Shea M, Yin JC, Benjamin PR and Kemenes G. <b>Cyclic AMP response element-binding (CREB)-like proteins in a molluscan brain: cellular localization and learning-induced phosphorylation.</b> <i>European Journal of Neuroscience</i> , Vol. 18, No. 5, 1223-34. DOI: 10.1046/j.1460-9568.2003.02856.x	2003	Q1	76	3.872
Sarmiento S, Simeão Carvalho P, Glogarova M, Chaves MR, Nguyen HT and Ribeiro MJ. <b>Dielectric, optical and TSM measurements on semi-perfluoroferro- and antiferro-electric liquid crystals.</b> <i>Liquid Crystals</i> , Vol. 25, No. 3, 375-385.	1998	Q2	12	1.443
Simeão Carvalho P, Glogarova M, Chaves MR, Nguyen HT, Destrade C, Rouillon JC, Sarmiento S and Ribeiro MJ. <b>Polar phases in chiral thiobenzoate liquid crystals.</b> <i>Liquid Crystals</i> , Vol. 21, No. 4, 511-521.	1996	Q2	10	1.472

#### PEER-REVIEWED CONFERENCE PROCEEDINGS

- Georgieva, K., Georgieva, O., Georgieva, P., Ribeiro, M.J., Paiva, J.S. 2016. **Regression Approach for Automatic Detection of Attention Lapses.** IEEE 8th International Conference on Intelligent Systems (IS), Sofia, 2016, pp. 370-375. doi: 10.1109/IS.2016.7737447
- Duarte, J., Ribeiro, M., Violante, I., Cunha, G., Al-Rawi, M., Cunha, J.P., Castelo-Branco, M. 2011. **Multivariate pattern analysis of brain structure: A diagnostic tool for Neurofibromatosis type 1.** *Bioengineering (ENBENG)*, 2011. 1st Portuguese Meeting in Bioengineering, vol., no., pp.1,4, 1-4 March 2011.

#### PREPRINTS

- Sara F. Oliveira, Catarina F. Gomes, Maria J. Ribeiro. 2024. **The influence of sensory noise, confidence judgments, and accuracy on pupil responses and associated behavioural adjustments in young and older people.** *bioRxiv* 2024.05.01.589279; doi: <https://doi.org/10.1101/2024.05.01.589279>
- Francesca Aprile, Marco Simões, Jorge Henriques, Paulo Carvalho, Miguel Castelo-Branco, Alejandra Sel, Maria J. Ribeiro. 2024. **The cortical heartbeat-evoked potential is modulated by heart rate in a task and mental effort dependent manner.** *bioRxiv* 2024.01.31.578137; doi: <https://doi.org/10.1101/2024.01.31.578137>
- Ribeiro MJ, Castelo-Branco M. 2021. **Slow fluctuations in ongoing brain activity decrease in amplitude with ageing yet their impact on task-related evoked responses is dissociable from behaviour.** *bioRxiv* 2021.11.18.467545; doi: <https://doi.org/10.1101/2021.11.18.467545>

Ribeiro, M. J., Fonseca, A., Moura Ramos, M., Costa, M., Kiltani, K., Andersen, L. M., Harber-Aschan, L., Moscoso, J. A., Bagchi, S., European Network of Postdoctoral Associations. 2019. **Postdoc X-ray in Europe 2017: Work conditions, productivity, institutional support and career outlooks.** *bioRxiv* 523621v2; doi: <https://doi.org/10.1101/523621>

## PUBLISHED DATASETS

Maria J. Ribeiro and Miguel Castelo-Branco (2021). **EEG, ECG and pupil data from young and older adults: rest and auditory cued reaction time tasks.** OpenNeuro. [Dataset] DOI: [10.18112/openneuro.ds003690.v1.0.0](https://doi.org/10.18112/openneuro.ds003690.v1.0.0)

## COMUNICATIONS

### ORAL PRESENTATIONS – AS PRESENTING AUTHOR

12th MindBrainBody Symposium 2025, 10-12 March 2025 | Berlin. **Brain-Heart Interactions during Attention Orienting.** *INVITED SPEAKER*

Champalimaud Research Symposium 2023 - Neuroscience Edition. Lisbon, Portugal. 24-27 October 2023. Maria J. Ribeiro, Francesca Aprile, Marco Simões, Jorge Henriques, Paulo Carvalho, Miguel Castelo-Branco, & Alejandra Sel. **The influence of heart rate on the neural responses to heartbeats depends on cognitive state.**

IV Congresso Internacional do CINEICC, Universidade de Coimbra, March 30 – April 1st, 2023. Maria J. Ribeiro, Nádía Canário, Hugo Quental, Miguel Castelo-Branco, Joshua Calder-Travis, Ruud L. van den Brink, Tobias H. Donner. Age-responses related impairments in decision-making under uncertainty are associated with deficits in arousal (Best Oral Communication Award)

7th Iberian congress on perception, July 6 -7th, 2017 Coimbra, Portugal. Maria J. Ribeiro and Miguel Castelo-Branco. Decreased neural variability during auditory processing in healthy ageing: evidence from pupillography and EEG.

From matter to mind, 2 December 2016, in Amsterdam, Netherlands. Maria J. Ribeiro. Alpha brain waves and the effect of flicker in film. *INVITED SPEAKER*

5th Annual Meeting of IBILI, December 2013 in Coimbra, Portugal. Maria J. Ribeiro, Inês R. Violante, Miguel Castelo-Branco. Neural correlates of response caution in children and adolescents

2013 NF conference. Monterey, California, USA. June 8-11 2013. Maria J. Ribeiro, Inês R. Violante, Miguel Castelo-Branco. GABA deficits in patients with NF1: physiological implications. *INVITED SPEAKER*

XIII Reunião da Sociedade Portuguesa de Neurociências. Luso, Portugal. 30, 31 May and 1 June 2013. Maria J. Ribeiro, Inês R. Violante, Miguel Castelo-Branco. The electrophysiological signature of response caution.

15th European NF Meeting, September 6-9, 2012, Istanbul, Turkey. Maria J. Ribeiro, Inês R. Violante, Eduardo Silva and Miguel Castelo-Branco. Neural correlates of impaired cognitive control in Neurofibromatosis type 1

FIRST-UCIII - RESEARCHER FORUM. September 29, 2011, Coimbra, Portugal. Maria Ribeiro, Inês Violante, Inês Bernardino, Gil Cunha, Eduardo Silva, Miguel Castelo-Branco. Genetics and brain function in Neurofibromatosis type 1.

IVth IBERIAN CONFERENCE ON PERCEPTION in July 6-8, 2011, Palma, Balearic Islands (Spain). M.J. Ribeiro, O. Cardoso, E. Silva & M. Castelo-Branco. Amplitude of alpha brain oscillations predicts detection of suprathreshold luminance changes.

2nd Annual Meeting of the IBILI December 2010 in Coimbra, Portugal. Maria J. Ribeiro, Inês Violante, Miguel Castelo-Branco. Abnormal brain oscillations in Neurofibromatosis type 1.

2nd Annual Meeting of the IBILI in December 2010, Coimbra, Portugal. Inês R. Violante, Maria J. Ribeiro, Gil Cunha, Inês Bernardino, João Duarte, Eduardo Silva, Miguel Castelo-Branco. Abnormal development of early visual areas in Neurofibromatosis type 1: an fMRI study.

14th European NF-meeting. Oslo, Norway. Sep 9-12 2010. M.J. Ribeiro, O.C. d'Almeida, J.V. Duarte and M. Castelo-Branco. Abnormal brain oscillations might underlie deficits in visual attention and motor control, in Neurofibromatosis type 1.

## ORAL PRESENTATIONS – AS CO-AUTHOR

- The 16th ISEI Symposium 2024. 9-12 September, Vienna, Austria. Kaan Akalp, Hicran Beşikçi, Maria Ribeiro, Luis Rama, José Pedro Leitão Ferreira, Afonso Rainho Mateus, Nina Gruska, C. Raquel Oliveira Coelho, Ana Maria Teixeira. **Effects of Simultaneous Cognitive Training and Group Aerobic Exercise on Inflammation and Cognitive Functions in Older Persons: Preliminary Results**
- ESMRMB 2012 Congress, October 2012, Lisbon, Portugal. Inês R. Violante, Maria J. Ribeiro, Richard A. E. Edden, Pedro Guimarães, Inês Bernardino, José Rebola, Gil Cunha, Eduardo Silva, Miguel Castelo-Branco. **Reduced GABA levels in the Human Visual Cortex challenges the over-inhibition model in Neurofibromatosis type 1 - Awarded a Certificate of Merit by the Scientific Exhibition Jury**
- 18th Annual Meeting of the Organization for Human Brain Mapping. June 10-14, 2012, Beijing, China. I Violante, M Ribeiro, R Edden, I Bernardino, J Rebola, P Guimarães, G Cunha, E Silva, M Castelo-Branco. **Reduced GABA in the Visual Cortex of Patients with NF1 – A New Perspective on the Disease Mechanism.**
- 14th European NF-meeting. Oslo, Norway. Sep 9-12 2010. Inês R. Violante, Maria J. Ribeiro, Gil Cunha, Eduardo Silva, Miguel Castelo-Branco. **Impaired activation of brain visual areas in NF1.**

## POSTER PRESENTATIONS – AS PRESENTING AUTHOR

- Language, Metacognition, and Decision Conference 2024, Coimbra Portugal, 18 October. Sara F. Oliveira, Catarina F. Gomes, Maria J. Ribeiro. **Sensory noise, confidence judgments, and accuracy in a perceptual decision-making task affect pupil responses and associated behavioural adjustments differently in young and older people**
- SAW - Seeing and Acting Workshop: Functional and Neural Perspectives – September 26-28, 2024, Coimbra, Portugal. Sara F. Oliveira, Catarina F. Gomes, Maria J. Ribeiro. **Post-decision modulation of pupil-linked arousal is associated with performance lapses in a visual motion direction discrimination task**
- Brain Conference: Structuring Knowledge for Flexible Behaviour. Rungstedgaard, Denmark. 18–21 Oct 2023. Sara F. Oliveira, Catarina F. Gomes, Maria J. Ribeiro. **Ageing affects the way decision confidence and response accuracy modulate the arousal responses to performance feedback**
- 23<sup>rd</sup> Conference of the European Society for Cognitive Psychology (ES COP). Porto, Portugal. 6-9 September 2023. Maria J. Ribeiro, Nádia Canário, Susana Mouga, Inês Bernardino, Carolina Sousa, Sofia Marcos, Hugo Quental, Miguel Castelo-Branco, Joshua Calder-Travis, Ruud L. van den Brink, Tobias H. Donner. **Uncertainty and change-point detection during decisions under uncertainty modulate pupil-linked arousal differently in young and older adults.**
- International Conference for Cognitive Neuroscience (ICON), Helsinki, Finland. May, 18th-22nd, 2022. Maria J. Ribeiro, Miguel Castelo-Branco. **The importance of considering ongoing brain activity when studying evoked responses in the EEG and pupil signals.**
- XVII Meeting of the Portuguese Society for Neuroscience. Coimbra, Portugal. 1-3 December 2021. Maria J. Ribeiro, Miguel Castelo-Branco. **Brain signal variability in ageing: the impact of reduced slow activity fluctuations on task-evoked responses and behaviour.**
- FENS Regional Meeting, Belgrade, Serbia, July 2019. Maria J. Ribeiro, Miguel Castelo-Branco. **Pupil responses suggest reduced noradrenergic activation and impaired uncertainty representation in older adults.**
- Ageing: models, mechanisms and therapies, Coimbra, Portugal, June 2019. Maria J. Ribeiro, Miguel Castelo-Branco. **The brain-heart axis and its association with the slowdown of cognitive processing in older adults.**
- 13<sup>th</sup> International Conference for Cognitive Neuroscience, Amsterdam, The Netherlands, August 2017. Maria J. Ribeiro, Miguel Castelo-Branco. **The noradrenergic system and its relationship with cortical processing.**
- XV Meeting of the Portuguese Society for Neuroscience, Braga, Portugal, May 2017. Maria J. Ribeiro, Miguel Castelo-Branco. **Impaired noradrenergic modulation in healthy ageing: evidence from pupillography and electroencephalography.**

- The 5<sup>th</sup> Champalimaud Neuroscience Symposium. Lisbon, Portugal, September 2016. Maria J. Ribeiro, Miguel Castelo-Branco. **Noradrenergic modulation of reaction time is task dependent.**
- 7<sup>th</sup> Annual Meeting of IBILI. Coimbra, Portugal, December 2015. Maria J. Ribeiro, Miguel Castelo-Branco. **Noradrenaline, pupil diameter, and reactions speed.**
- Neuroscience 2015. Society for Neuroscience Meeting. Chicago, USA, 2015. Maria J. Ribeiro, Joana S. Paiva, Miguel Castelo-branco. **Fluctuations in processing time are reflected in the shape of early visual evoked potentials**
- 9th FENS Forum of Neuroscience. Milan, Italy. 5-9 July, 2014. Maria J. Ribeiro, Inês R. Violante, Miguel Castelo-Branco. **Impulsive response styles are associated with impairments in response preparation and response evaluation.**
- Neuroscience 2012, Society for Neuroscience Annual Meeting. New Orleans, USA. 13-17 October 2012. Maria Ribeiro, Inês Violante, Eduardo Silva, Miguel Castelo-Branco. **The relation between GABA levels and visually-induced neural activation in a neurodevelopmental disorder characterized by dysfunctional GABAergic neurotransmission, NF1.**
- 3rd Annual Meeting of the IBILI, December 2011, Coimbra, Portugal. Maria José Ribeiro, Miguel Castelo-Branco. **Deficits in sustained attention might relate to higher inter-trial variability of alpha brain oscillations.**
- Champalimaud Neuroscience Symposium. 18-21, Lisbon, Portugal. 18-21 September 2011. Ribeiro MJ, d'Almeida OC, Silva E, Castelo-Branco M. **The electrophysiological signature of momentary lapses of attention**
- XII Meeting of the Portuguese Society for Neurosciences. Lisbon, Portugal. 26-28 May 2011. Maria José Ribeiro, Inês Ribeiro Violante, João Valente Duarte, Inês Bernardino, Gil Cunha, Fabiana Ramos, Jorge Saraiva, Eduardo Silva, Miguel Castelo-Branco. **Functional and structural deficits in neurofibromatosis type 1, a neurodevelopmental disorder characterized by enhanced neural inhibition.**
- VII Seminário Da Sociedade De Pediatria Do Neurodesenvolvimento. Porto, Portugal. January 2011. Maria J. Ribeiro, Inês R. Violante, Otília C. d'Almeida, Fabiana Ramos, Jorge Saraiva, Eduardo Silva, Miguel Castelo-Branco. **Neurofibromatosis type 1 children present brain oscillations with abnormally high amplitude.**
- 2nd Annual Meeting of the IBILI in December 2010 in Coimbra, Portugal. M.J. Ribeiro, I.R. Violante, F. Ramos, J. Saraiva, E. Silva, M. Castelo-Branco. **Contrast sensitivity deficits are associated with history of academic failure in adults with Neurofibromatosis type 1 (NF1).**
- 2nd Annual Meeting of the IBILI, December 2010, Coimbra, Portugal. J. Duarte, M. Ribeiro, I. Violante, M.S. Al-Rawi, J.P.S. Cunha, M. Castelo-Branco. **Machine learning and multivariate pattern recognition techniques identify multiple brain areas of abnormal structure in Neurofibromatosis type 1.**
- 7th FENS Forum of European Neuroscience. Amsterdam, Netherlands. July 3-7, 2010. FENS Abstr. vol 5, 081.24 M. J. Ribeiro, O. C. D'Almeida, J. V. Duarte & M. Castelo-Branco. 2010. **Abnormally high amplitude of brain oscillations in a neurodevelopmental disorder characterized by enhanced GABAergic transmission: neurofibromatosis type 1.**
- 20th Symposium of the International Colour Vision Society. Braga, Portugal. July 2009. M.J. Ribeiro and M. Castelo Branco. 2009. **Comparison of the contrast and size response functions of the magno-, parvo- and koniocellular pathways in human visual cortex.**
- 2009 NF Conference. Portland, Oregon, USA. June 2009. M.J. Ribeiro, I.R. Violante, I.S. Bernardino, F. Ramos, J. Saraiva, G. Spurlock, M. Upadhyaya, E. Silva, M. Castelo-Branco. 2009. **Children with Neurofibromatosis type 1 show contrast sensitivity deficits compatible with abnormal inhibitory transmission in visual brain areas.**
- Society for Neuroscience, 38th Annual Meeting. Washington, D.C., USA. November 2008. M.J. Ribeiro and M. Castelo Branco. 2008. **Comparison of the contrast and size response functions of the magno-, parvo- and koniocellular pathways in human visual cortex.**
- British Neuroscience Association 18th National Meeting. Brighton, U.K. April 2005. Ribeiro, M. J., Kemenes, G., Benjamin, P. R. **The role of MAPK in appetitive conditioning**
- Society for Neuroscience, 31st Annual Meeting. San Diego, USA. November 2001. Ribeiro, M. J., Kemenes, G., Benjamin, P. R. **MAPK: necessity and activation in appetitive conditioning**
- Society for Neuroscience, 30th Annual Meeting. New Orleans, USA. November 2000. Ribeiro, M. J.; Kemenes, G.; Benjamin, P. R. **What molecular pathways play a role in appetitive learning?**

- FENS, Forum of European Neuroscience, 2000. Brighton, U.K. June 2000. Ribeiro, M. J.; Kemenes, G.; Benjamin, P. R. **Do MAP kinase and the transcription factors CREB and C/EBP play a role in appetitive learning?**
- Euresco - Neural Mechanisms of Learning and Memory: Retrieval of the Trace. Granada, Spain. May 2000. Ribeiro, M. J.; Kemenes, G.; Benjamin, P. R. **Do MAP kinase and the transcription factors CREB and C/EBP play a role in appetitive learning?**
- Cold Spring Harbor Laboratory Learning & Memory Meeting. Cold Spring Harbor, USA. April 1999. Ribeiro, M. J.; Kemenes, G.; Benjamin, P. R. **CREB and C/EBP-like immunoreactivity in the CNS of *L. stagnalis***

#### POSTER PRESENTATIONS – AS CO-AUTHOR

- Language, Metacognition, and Decision Conference 2024, Coimbra Portugal, 18 October. Beşikci, Hicran, Castelo-Branco, Miguel, Ribeiro, Maria J. **Pupil dilations as measures of reinforcement learning and task difficulty**
- SAW - Seeing and Acting Workshop: Functional and Neural Perspectives – September 26-28, 2024, Coimbra, Portugal. Beşikci, Hicran, Castelo-Branco, Miguel, Ribeiro, Maria J. **Pupil Responses during reinforcement learning task**
- IV International Congress of CINEICC, University of Coimbra, Portugal. March 30 – April 1st, 2023. Sara F. Oliveira, Susana Mouga, Inês Bernardino, Carolina Sousa, Sofia Marcos, Ana Maria Teixeira, Luís M. Rama, Maria J. Ribeiro. **The effect of physical activity on pupil-linked arousal modulation during visual motion discrimination tasks.**
- IV International Congress of CINEICC, University of Coimbra, Portugal. March 30 – April 1st, 2023. Ana Marques, Nuno Sousa, Rogério Medeiros, Filipa Machado, Nuno Rodrigues, Davide Borra, Marco Simões, Maria J. Ribeiro. **Integration of body and brain signals to decode neural responses to objects.**
- IEEE-CIS Workshop. Lisbon, Portugal. November 2014. Krasimira Georgieva, Petia Georgieva, Maria Ribeiro. **Automatic Detection of Attention Lapses using EEG signals**
- 5th Annual Meeting of IBILI. Coimbra, Portugal. 12-13 December, 2013. Inês R. Violante, Maria J. Ribeiro, Miguel Castelo-Branco. **Functional Connectivity in Neurofibromatosis type 1.**
- 2013 NF conference. Monterey, California, USA. June 8-11 2013. Inês R. Violante, Maria J. Ribeiro, Miguel Castelo-Branco. **Disrupted thalamocortical connectivity in NF1.**
- 15th European NF-meeting. Istanbul, Turkey. Sep 6-9 2012. Inês R. Violante, Maria J. Ribeiro, Richard A. E. Edden, Pedro Guimarães, Inês Bernardino, José Rebola, Gil Cunha, Eduardo Silva, Miguel Castelo-Branco. **GABA levels are reduced in the visual cortex of children with NF1.**
- 15th European NF-meeting. Istanbul, Turkey. Sep 6-9 2012. Inês R. Violante, Maria J. Ribeiro, Miguel Castelo-Branco. **Cortical and subcortical contributions to altered brain morphology in Neurofibromatosis type 1**
- 18th Annual Meeting of the Organization for Human Brain Mapping. June 10-14, 2012, Beijing, China. I Violante, M Ribeiro, I Bernardino, G Cunha, E Silva, M Castelo-Branco. **Regional brain volume increases relate to cognitive function in Neurofibromatosis type 1.**
- 3rd Annual Meeting of the IBILI, December 2011, Coimbra, Portugal. J. Duarte; M. Ribeiro; I. Violante; G. Cunha; E. Silva; M. Castelo-Branco. **Multivariate pattern analysis of multi-site brain structural data in neurofibromatosis type 1.**
- 3rd Annual Meeting of the IBILI, December 2011, Coimbra, Portugal. I.R. Violante; M.J. Ribeiro; R. Edde; I. Bernardino; J. Rebola; P. Guimaraes; G. Cunha; E. Silva; M. Castelo-Branco. **GABA concentration is reduced in the visual cortex of patients with neurofibromatosis type 1 – a new perspective on the disease mechanism.**  
*Awarded the Best 2013 Scientific Paper on Clinical Research from FMUC*
- 3rd Annual Meeting of the IBILI, December 2011, Coimbra, Portugal. Andre Santos; N.F.Lori; I. Violante; M. Ribeiro; E. Silva; M. Castelo-Branco. **Visual-callosal white matter pathways in neurofibromatosis type 1: a diffusion tensor imaging – fiber tracking (dti-ft) study.**
- Champalimaud Neuroscience Symposium. 18-21, Lisbon, Portugal. 18-21 September 2011. Violante IV, Ribeiro MJ, Bernardino I, Duarte J, Silva E, Castelo-Branco M. **Cortical thickness abnormalities in children with neurofibromatosis type 1**

- 17th Annual Meeting of the Organization for Human Brain Mapping. Quebec City, Canada. June 26-30, 2011. Ines Violante, Maria Ribeiro, André Santos, Nicolás Lori, Eduardo Silva, Miguel Castelo-Branco. **Structural and functional development of early visual cortical areas: an fMRI and DTI study.**
- 17th Annual Meeting of the Organization for Human Brain Mapping. Quebec City, Canada. June 26-30, 2011. Nicolás Lori, Maria Ribeiro, Inês Violante, Miguel Castelo-Branco. **Comparing Diffusion Tensor Imaging in Neurofibromatosis type I vs. Normal Children and Adults**
- 14th European NF-meeting. Oslo, Norway. Sep 9-12 2010. João Duarte, Maria Ribeiro, Mohammed Al-Rawi, Inês Violante, João Paulo Cunha, Miguel Castelo-Branco. **T1-weighted MR images distinguish NF1 patients from controls and reveal specific anatomical differences: a pattern classification approach.**
- 2nd Annual Meeting of the IBILI, December 2010, Coimbra, Portugal. I. Violante, M. J. Ribeiro, G. Cunha, E. Silva and M. Castelo-Branco. **Dorsal Stream Development in Low-level Visual Areas: an fMRI Study.**
- 2nd Annual Meeting of the IBILI in December 2010 in Coimbra, Portugal. Nicolás F. Lori, Maria Ribeiro, Inês Violante, Miguel Castelo-Branco. **Diffusion Tensor Imaging in NF1 versus Normal for both Children and Adults.**
- 7th FENS Forum of European Neuroscience. Amsterdam, Netherlands. July 3-7, 2010. FENS Abstr., vol.5, 081.37. I. Violante, M. Ribeiro, G. Cunha, E. Silva & M. Castelo-Branco. 2010. **Differential dorsal versus ventral stream impairment in a neurodevelopmental disorder characterized by enhanced GABAergic neurotransmission: Neurofibromatosis type 1.**
- 16th Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain. June 6-10, 2010. I. Violante, M. J. Ribeiro, G. Cunha, E. Silva and M. Castelo-Branco. 2010. **Abnormal physiology and maturation of the dorsal stream pathway in Neurofibromatosis type 1.**
- 16th Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain. June 6-10, 2010. João Duarte, Maria Ribeiro, Nicolas Lori, Frederico Lourenço and Miguel Castelo-Branco. 2010. **Support Vector Machine-Based Classification of Neurofibromatosis Type 1 from Structural MR Scans.**
- 1st Annual Meeting of IBILI. Coimbra, Portugal. December 11-13, 2009. I.R. Violante, M.J. Ribeiro, G. Cunha, E. Silva, M. Castelo-Branco. 2009. **Neural correlates of abnormal visual processing in Neurofibromatosis Type I.**