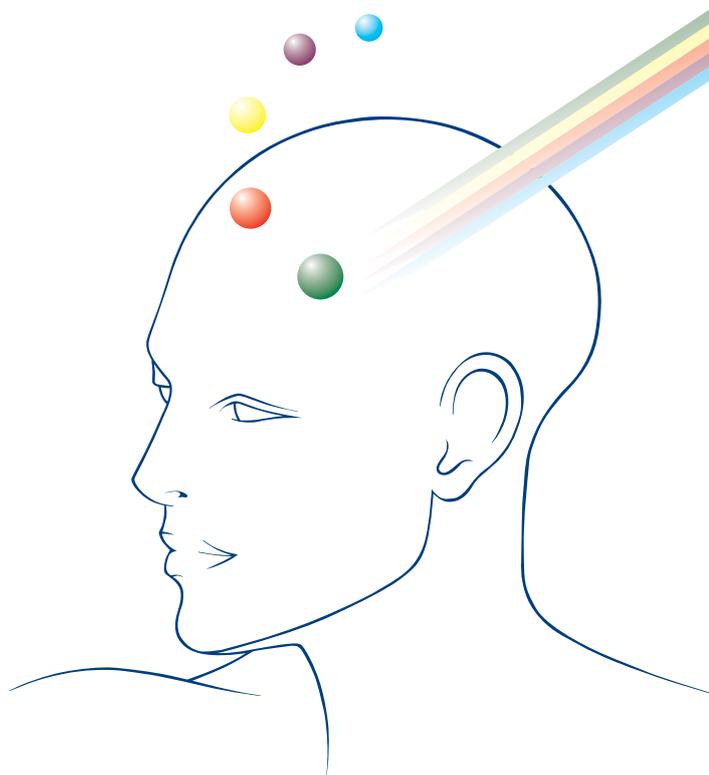


11º SIMPÓSIO DA FUNDAÇÃO **Bial**

AQUÉM E ALÉM DO CÉREBRO

BEHIND AND BEYOND THE BRAIN

Casa do Médico - Porto
30 de março a 2 de abril de 2016
March 30 to April 2, 2016



Programa e Resumos das Comunicações
Program and Abstracts



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

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Programa *Program*

30 de março – quarta-feira *March 30 – Wednesday*

20:00 - 21:15 - Entrega de documentação	<i>Registration</i>
21:15 - 21:45 - Sessão de Abertura	<i>Opening Session</i>
21:45 - 22:30 - Conferência Inaugural Chairman - Fernando Lopes da Silva	<i>Opening Conference</i>

The emperor's new drugs: medication and placebo in the treatment of depression
Irving Kirsch

31 de março – quinta-feira *March 31 – Thursday*

1st session
Placebo effects: underlying mechanisms
Moderator - **Rainer Goebel**

- 09:00 - 09:15 - Abertura *Opening remarks*
- 09:15 - 09:45 - *Teach the T cells: How learning can shape immunity*
Manfred Schedlowski
- 09:50 - 10:20 - *The neurophysiology of placebo effects: A window on the workings of mind-body medicine*
Tor Wager
- 10:25 - 10:55 - *Neurochemical systems involved in the formation of placebo effects in pain and Major Depression*
Jon-Kar Zubieta
- 11:00 - 11:30 - Café, sessão de posters e contactos
Coffee, posters session and contacts with faculty
- 11:30 - 12:15 - Conferência *Keynote lecture*
The challenge of mapping placebo mechanisms across diseases
Fabrizio Benedetti
- 12:30 - 13:00 - Discussão *Morning Discussion*
- 13:00 - 14:30 - Almoço *Lunch*
- 14:30 - 15:30 - Apresentações orais posters - Bolseiros Fundação Bial
Posters oral presentations - Bial Foundation Fellows
Moderator - **Mário Simões**
- 15:30 - 16:00 - Café, sessão de posters e contactos
Coffee, posters session and contacts with faculty
- 16:00 - 17:00 - Cont.
Apresentações orais posters - Bolseiros Fundação Bial
Posters oral presentations - Bial Foundation Fellows



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1 de abril – sexta-feira April 1 – Friday

2nd session

Placebo and Nocebo in Medicine

Moderator - Miguel Castelo-Branco

- 09:00 - 09:15 - Abertura *Opening remarks*
- 09:15 - 09:45 - *Unsolved, forgotten, and/or ignored features of the placebo response in medicine*
Paul Enck
- 09:50 - 10:20 - *Placebo Effects in Clinical Practice*
Ted Kaptchuk
- 10:25 - 10:55 - *Placebo science: Magic you can really believe in*
Amir Raz
- 11:00 - 11:30 - Café, sessão de posters e contactos
Coffee, posters session and contacts with faculty
- 11:30 - 12:15 - Conferência *Keynote lecture*
Placebo analgesia - challenges and opportunities for clinical practice
Damien Finniss
- 12:30 - 13:00 - Discussão *Morning Discussion*
- 13:00 - 14:30 - Almoço *Lunch*
- 14:30 - 16:30 - *Parallel Workshops (W)*
W 1 – Room Braga; only questions from the audience will be translated
Placebo effects - Mechanisms: Neurobiological basis and controversies
Moderator - Axel Cleeremans
Invited discussants: Fabrizio Benedetti, Ted Kaptchuk, Jon-Kar Zubieta
- W 2 – Room Medicoteca; only questions from the audience will be translated**
Placebo or Nocebo effects - Methodological issues: The Cochrane database of Systematic reviews
Moderator - Dick Bierman
Invited discussants: Paul Enck, Tor Wager
- W 3 – Room Auditorium; simultaneous translation will be assured**
Meditation, Mindfulness and Healing: The significance of findings in Mind-Matter interaction research
Moderator - Mário Simões
Invited discussants: Amir Raz, Tania Re, Stefan Schmidt, Jessica Utts
- 17:00 - 18:00 - *Get-together Cheese & Wine*

2 de abril – sábado April 2 – Saturday

3rd session
Placebo, Health and Healing
Moderator - **Caroline Watt**

- 09:00 - 09:15 - Abertura *Opening remarks*
- 09:15 - 09:45 - *Cross-cultural aspects of Health and disease*
Antonio Guerci
- 09:50 - 10:20 - *The Possible Role of Mental Influence in Evidence-Based Medicine*
Jessica Utts
- 10:25 - 10:55 - *Healing through meaning: placebo, meditation and beyond*
Stefan Schmidt
- 11:00 - 11:30 - Café, sessão de posters e contactos
Coffee, posters session and contacts with faculty
- 11:30 - 12:15 - Conferência *Keynote lecture*
Brains and Beyond: The Unfolding Vision of Health and Healing
Larry Dossey
- 12:30 - 13:00 - Discussão *Morning Discussion*
- 13:00 - 14:30 - Almoço *Lunch*
- 14:30 - 16:30 - Mesa-redonda *Round-table*
Ethics of the Placebo in Medicine
Chairman - **João Lobo Antunes**
Participants: **Irving Kirsch, Paul Enck, Damien Finniss**



AQUÉM E ALÉM DO CÉREBRO

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Resumos das Comunicações *Abstracts*

30 de março – quarta-feira *March 30 – Wednesday*

Conferência Inaugural
Chairman - Fernando Lopes da Silva

Opening Conference

The emperor's new drugs: medication and placebo in the treatment of depression
Irving Kirsch



Fernando Lopes da Silva Professor Jubilado de Fisiologia Geral, Universidade de Amesterdão, Holanda, e *Investigador Coordenador do Instituto Superior Técnico (IST) de Lisboa*. Interesses científicos: eletrofisiologia do cérebro, origens do fenómeno epilético, redes neuronais em relação com a memória, atenção e consciência.

Emeritus Professor of General Physiology, University of Amsterdam, The Netherlands, and Head researcher of the Higher Technical Institute (IST) of Lisbon, Portugal. Research interests: electrophysiology of the brain, origin of epileptic phenomena, neuronal networks in relation to memory, attention and consciousness.

THE EMPEROR'S NEW DRUGS: MEDICATION AND PLACEBO IN THE TREATMENT OF DEPRESSION

Irving Kirsch

Antidepressants are supposed to work by fixing a chemical imbalance, specifically, a lack of serotonin in the brain. But analyses of the published and the unpublished data that were hidden by the drug companies reveal that most (if not all) of the benefits are due to the placebo effect. Some antidepressants increase serotonin levels, some decrease serotonin, and some have no effect at all on serotonin. Nevertheless, they all show the same therapeutic benefit. Instead of curing depression, popular antidepressants may induce a biological vulnerability making people more likely to become depressed in the future. Other treatments (e.g., psychotherapy and physical exercise) produce the same short term benefits as antidepressants, show better long term effectiveness, and do so without the side effects and health risks of the drugs.



Irving Kirsch Diretor Associado do Programa em Estudos de Placebo no *Beth Deaconess Israel Medical Center*, EUA, Professor em Medicina, na *Harvard Medical School*, Professor Jubilado das Universidades de Plymouth, Hull e Connecticut. Editor Associado: *National Library for Health, Complementary and Alternative Medicine Specialist Library, NHS*, e de *Contemporary Hypnosis & Integrative Therapy, Hypnosis International Monographs*. Publicou mais de 240 artigos em revistas de excelência e dez livros, entre os quais *Handbook of clinical hypnosis (2010)* e *The emperor's new drugs: Exploding the antidepressant myth (2010)*. Interesses científicos: efeito placebo, depressão, antidepressivos, acupuntura, sugestão, sugestibilidade, automatismo, memória, psicoterapia cognitivo-comportamental, hipnose, ansiedade, história e filosofia da psicologia.

Associate Director Program in Placebo Studies, Beth Deaconess Israel Medical Center, USA, Lecturer in Medicine, Harvard Medical School, Professor Emeritus, Universities of Plymouth, Hull and Connecticut. Associate Editor: National Library for Health, Complementary and Alternative Medicine Specialist Library, NHS, and of Contemporary Hypnosis & Integrative Therapy, Hypnosis International Monographs. Published more than 240 papers in outstanding scientific journals and ten books, among them Handbook of clinical hypnosis (2010) and The emperor's new drugs: Exploding the antidepressant myth (2010). Research interests: placebo effects, depression, antidepressants, acupuncture, suggestion, suggestibility, automaticity, memory, cognitive-behavioral psychotherapy, hypnosis, anxiety, history and philosophy of psychology.



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

Resumos das Comunicações *Abstracts*

31 de março – quinta-feira *March 31 – Thursday*

1st session

Placebo effects: underlying mechanisms

Moderator - Rainer Goebel

Teach the T cells: How learning can shape immunity

Manfred Schedlowski

The neurophysiology of placebo effects: A window on the workings of mind-body medicine

Tor Wager

Neurochemical systems involved in the formation of placebo effects in pain and Major Depression

Jon-Kar Zubieta

Conferência

Keynote lecture

The challenge of mapping placebo mechanisms across diseases

Fabrizio Benedetti



Rainer Goebel Professor Catedrático de Neurociência Cognitiva, Faculdade de Psicologia e Neurociência, Universidade de Maastricht, Holanda. Diretor fundador do *Maastricht Brain Imaging Centre (M-BIC)* e líder de equipa do grupo "*Neuromodeling and Neuroimaging*", *Netherlands Institute for Neuroscience (NIN)*, *Royal Netherlands Academy of Arts and Sciences (KNAW)*. Interesses científicos: representações neuronais no cérebro e o modo como estas são processadas para permitir funções perceptivas e cognitivas específicas, correlatos neuronais de percepção visual, aplicações clínicas nas interfaces cérebro-computador (ICC) e estudos de *neurofeedback*.

Full professor for Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University, The Netherlands. Founding director of the Maastricht Brain Imaging Centre (M-BIC) and team leader of the "Neuromodeling and Neuroimaging" group, Netherlands Institute for Neuroscience (NIN), Royal Netherlands Academy of Arts and Sciences (KNAW). Research interests: neuronal representations in the brain and how they are processed to enable specific perceptual and cognitive functions, neural correlates of visual awareness, clinical applications in brain computer interfaces (BCIs) and neurofeedback studies.

TEACH THE T CELLS: HOW LEARNING CAN SHAPE IMMUNITY

Manfred Schedlowski

One of the most fascinating examples of the bi-directional communication between the central nervous system (CNS) and the peripheral immune system is the demonstration that immune responses can be modulated via associative learning paradigms. During the last years we have developed several protocols of behavioral immunconditioning in rodents and humans. When saccharin taste as a conditioned stimulus (CS) and the immunosuppressive drug Cyclosporine A (CsA) as an unconditioned stimulus (US) is paired in a taste aversion paradigm in rats (acquisition), mere re-exposure to the CS during evocation induces a significant inhibition of the proliferative capacity of splenic lymphocytes as well as interleukin-2 (IL-2) and interferon-gamma (γ -IFN) production and cytokine mRNA expression. These behaviorally conditioned immunosuppressive effects are mediated on the efferent arm via the splenic nerve, noradrenaline and beta-adrenoceptor dependent mechanisms. In addition, the insular cortex and the amygdala and have been identified as essential neuronal structures mediating these associative learning processes. This learned immunosuppression is of clinical relevance, since behavioral conditioning significantly prolonged the survival of heterotopic transplanted heart allografts and attenuated delayed type hypersensitivity reaction. Behaviorally conditioned immunosuppression is also possible in humans where orally administered CsA is paired with a novel tasting drink during acquisition. Re-exposure to the taste stimulus during evocation is inducing an immunosuppressive response reflected by significant reduction of IL-2 and γ -IFN production and mRNA expression. This immunosuppressive placebo response cannot be induced by mere expectation and extinction of this learned immunosuppressive response can be inhibited by inducing a reconsolidation or updating effect.

Together, this data provide a basis to employ learning paradigms in clinical situations as supportive therapy together with standard pharmacological regimen, the aim being to minimize unwanted drug side effects and to maximize the therapeutic outcome for the patient's benefit.



Manfred Schedlowski Professor e Diretor do Instituto de Psicologia Médica e Imunobiologia Comportamental da Faculdade de Medicina, *University of Duisburg-Essen*, Alemanha, com uma interrupção para investigação como Professor de Psicologia e Imunobiologia comportamental no *Swiss Federal Institute of Technology (ETH)*, Zurique, Suíça (2004-2007). Interesses científicos: neurobiologia das respostas placebo e nocebo, em particular os mecanismos e a relevância clínica do comportamento ou condicionamento Pavloviano das funções imunes e neuro-endócrinas.

Professor and Director of the Institute of Medical Psychology and Behavioural Immunobiology, Medical Faculty, University of Duisburg-Essen, Germany, interrupted by a research stay as Professor of Psychology and Behavioural Immunobiology, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland (2004-2007). Research interests: neurobiology of placebo and nocebo responses, in particular the mechanisms and clinical relevance of behavioural or Pavlovian conditioning of immune and neuroendocrine functions.



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

THE NEUROPHYSIOLOGY OF PLACEBO EFFECTS: A WINDOW ON THE WORKINGS OF MIND-BODY MEDICINE

Tor Wager

Placebo effects are improvements in signs and symptoms caused by the context in which a treatment is delivered. They are a natural part of the way our brains work; their mechanisms include learning and neuroplasticity, emotion, social cognition, and expectations and other future-oriented cognition. Understanding the neurophysiology of placebo can help shed light on the mechanisms underlying both other "mind-body" interventions and commonly used drugs. In this talk, I present an emerging picture of the brain systems-level interactions that give rise to placebo effects. I focus in particular on interactions between the prefrontal cortex, motivational systems in the forebrain, and evolutionarily ancient brainstem systems that govern emotion and physiology. Examining these systems suggests that not all placebo effects are created equal. Some have deeper effects on brain processes than others, and it is becoming increasingly possible to understand what makes some types of placebo effects physiologically "powerful" and others not. This emerging understanding provides new clues about how the mechanisms that create placebo effects served adaptive functions in our ancestral environment, and how to harness their effects in contemporary clinical practice and daily life.



Tor Wager Professor de Psicologia e Neurociências e docente no *Institute for Cognitive Science, University of Colorado*, Boulder, EUA. Membro do Conselho Editorial e revisor em revistas de excelência em psiquiatria e neurociências. Interesses científicos: a influência do pensamento em experiências afetivas, comunicação cérebro-corpo e *software*/ferramentas para análise fMRI.

Professor of Psychology and Neuroscience and faculty member in the Institute for Cognitive Science, University of Colorado, Boulder, USA. Member of the Editorial and Peer-Review Board of outstanding Journals in Psychiatry and Neurosciences. Research interests: influence of thought in affective experiences, brain-body communication and software toolboxes for fMRI analysis.

NEUROCHEMICAL SYSTEMS INVOLVED IN THE FORMATION OF PLACEBO EFFECTS IN PAIN AND MAJOR DEPRESSION

Jon-Kar Zubieta

Endogenous opioid and non-opioid mechanisms [e.g. dopamine (DA), endocannabinoids (eCB)] have been implicated in the formation of placebo analgesic effects, with initial reports dating back three-decades. Besides the perspective that placebo effects confound randomized clinical trials (RCTs), the information so far acquired points to neurobiological systems that when activated by positive expectations and maintained through conditioning and reward learning are capable of inducing physiological changes that lead to the experience of analgesia and improvements in emotional state. Molecular neuroimaging techniques with positron emission tomography (PET) and the selective μ -opioid and D2/3 radiotracers [11C]carfentanil and [11C]raclopride have significantly contributed to our understanding of the neurobiological systems involved in the formation of placebo effects. This line of research has described neural and neurotransmitter networks implicated in placebo responses across pathological states and provided the technical tools to examine inter-individual differences in the function of placebo responsive mechanisms, and potential surrogates (biomarkers). As a consequence, the formation of biological placebo effects is now being linked to the concept of resiliency mechanisms, partially determined by genetic factors, and uncovered by the cognitive emotional integration of the expectations created by the therapeutic environment and its maintenance through learning mechanisms. The delineation of these processes within and across diseases would point to biological targets that have not been contemplated in traditional drug development.



Jon-Kar Zubieta Professor de Psiquiatria e Radiologia na *University of Michigan* e Professor de Investigação no *Molecular and Behavioural Neuroscience Institute, University of Michigan*, Ann Arbor, EUA. Revisor *ad hoc* para mais de sessenta revistas de excelência, principalmente em Psiquiatria e Neurociências e membro do conselho editorial de revistas em neurociências. Publicou mais de 160 artigos originais em revistas científicas com revisão por pares. Interesses científicos: Neuroimagem Funcional, mecanismos reguladores do *stress* e da emoção no cérebro humano, patofisiologia do humor e dos distúrbios da utilização de substâncias, integração de mecanismos genético-neurobiológicos nas perturbações de humor e de uso de substâncias e mecanismos neurobiológicos dos efeitos placebo.

Professor of Psychiatry and Radiology, University of Michigan, and Research Professor, Molecular and Behavioural Neuroscience Institute, University of Michigan, Ann Arbor, USA. Ad-hoc reviewer in more than sixty outstanding Journals, mainly in Psychiatry and Neurosciences and member of the editorial board of Journals in Neurosciences. Published more than 160 original papers in scientific, peer-reviewed journals. Research interests: functional neuroimaging, stress and emotion regulatory mechanisms in the human brain, pathophysiology of mood and substance use disorders, integration of genetic-neurobiological mechanisms in mood and substance use disorders and neurobiological mechanisms of placebo effects.



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

THE CHALLENGE OF MAPPING PLACEBO MECHANISMS ACROSS DISEASES

Fabrizio Benedetti

Although placebos have long been considered a nuisance in clinical research, today they represent an active and productive field of research and, because of the involvement of many mechanisms, the study of the placebo effect can actually be viewed as a melting pot of concepts and ideas for neuroscience. Indeed, there exists not a single but many placebo effects, with different mechanisms and in different systems, medical conditions, and therapeutic interventions. For example, brain mechanisms of expectation, anxiety, and reward are all involved, as well as a variety of learning phenomena, such as Pavlovian conditioning, cognitive and social learning. There is also some experimental evidence of different genetic variants in placebo responsiveness. The most productive models to better understand the neurobiology of the placebo effect are pain and Parkinson's disease. In these medical conditions, the neural networks that are involved have been identified: that is, opioid, cannabinoid, cholecystokinin, dopamine modulatory networks in pain and part of the basal ganglia circuitry in Parkinson's disease. In addition, the immune system has provided important information on the placebo response as a mechanism of behavioral conditioning.

One of the most important challenges in future biomedical research is to map placebo mechanisms across all medical conditions and therapeutic interventions. Although this is certainly a difficult enterprise, it will have important implications both for clinical trials and for medical practice. In fact, several key concepts are emerging from the recent advances in placebo research. First, as the placebo effect is basically a psychosocial context effect, these data indicate that different social stimuli, such as words and therapeutic rituals, may change the chemistry and circuitry of the patient's brain. Second, the mechanisms that are activated by placebos are the same as those activated by drugs, which suggests a cognitive/affective interference with drug action. Third, if prefrontal functioning is impaired, placebo responses are reduced or totally lacking, as occurs in dementia of the Alzheimer's type.

One of the most interesting and challenging aspects of placebo research is related to the new emerging concept that placebos activate the same biochemical pathways that are activated by the drugs we administer in routine medical practice. Therefore, understanding similarities and differences between drugs and placebos represents an exciting scientific enterprise that will lead to better medical practice, better clinical trial designs, and better knowledge of human biology.



Fabrizio Benedetti Professor de Neurofisiologia e Fisiologia Humana na *University of Turin - Medical School*, Itália. Membro do *European Working Group on Pain and Impaired Cognition* e do *European Dana Alliance for the Brain*. Recebeu o prêmio *Seymour Solomon Award*, da *American Headache Society* e o "Helitzka Prize", da *Academy of Sciences*, Turim. Membro do Conselho Editorial da revista *Pain* e da *Current Neuropharmacology*. Interesses científicos: neurofisiologia, efeito placebo, dor, nocebo.

Professor of Neurophysiology and Human Physiology, University of Turin Medical School, Italy. Member of the European Working Group on Pain and Impaired Cognition. Member of the European Dana Alliance for the Brain. Awarded the "Seymour Solomon Award" of the American Headache Society and the "Helitzka Prize", Academy of Sciences, Turin. Member of the Editorial Board of Pain and Current Neuropharmacology. Research interests: neurophysiology, placebo effect, pain, nocebo.

31 de março – quinta-feira *March 31 – Thursday*

Apresentações orais posters - Bolseiros Fundação Bial
Posters oral presentations - Bial Foundation Fellows
Moderator - **Mário Simões**



AQUÉM E ALÉM DO CÉREBRO

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Apresentações orais de posters *Posters oral presentations*

61/10 - "Translation of neuron-glia interactions in complex cognitive functions"

Investigadores/Researchers: **João Filipe Pedreira de Oliveira**, Nuno Sérgio Mendes Dias, Luis Ricardo Monteiro Jacinto
Instituição/Institution: Instituto de Investigação em Ciências da Vida e da Saúde (ICVS), Escola de Ciências da Saúde, Universidade do Minho, Braga (Portugal)

144/10 - "Nonlinear Processing of Emotional Information: behavioral evidence and neurophysiological correlates"

Investigadores/Researchers: Manuel Fernando Santos Barbosa, João Eduardo Marques Teixeira, **Fernando Ricardo Ferreira-Santos**, Joana Maria Barbosa Vieira, Ana Cristina Basto Abreu
Instituição/Institution: Laboratório de Neuropsicofisiologia da Faculdade de Psicologia e Ciências da Educação, Universidade do Porto (Portugal)

167/10 - "Elucidating the molecular mechanisms mediating feeding behavior"

Investigadores/Researchers: **Carlos Vidal Ribeiro**, Maria Teresa Montez, Laura Belmonte, Samantha Herbert
Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

172/10 - "Attitudes sensitivity to context: presence of other and physiological evidences"

Investigadores/Researchers: **Teresa Maria Morais Garcia-Marques**, Ricardo Fonseca, Marília Prada, Alexandre Fernandes
Instituição/Institution: Unidade de Investigação em Psicologia Cognitiva, do Desenvolvimento e da Educação (UIPCDE), ISPA - Instituto Universitário, Lisboa (Portugal)

176/10 - "Dopaminergic regulation of dietary learning in humans and rodents"

Investigadores/Researchers: **Albino Jorge Carvalho de Sousa Oliveira Maia**, Rui M. Costa
Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

193/10 - "Attachment and exceptional experiences amongst twins reporting "exceptional experiences"

Investigadores/Researchers: **Göran Brusewitz**, Adrian Parker, Lynn Cherkas
Instituição/Institution: Greenwich University (UK), Department of Psychology, University of Gothenburg (Sweden), Department of Twin Research and Genetic Epidemiology, King's College, London (UK)

226/10 - "Brain decoding of spontaneous memory processes"

Investigadores/Researchers: Pierre Maquet, **Christophe Phillips**, Jessica Schrouffs, Caroline Kussé
Instituição/Institution: Cyclotron Research Centre, University of Liège (Belgium)

227/10 - "Evaluation of alterations of consciousness and the model of pragmatic information in a ganzfeld protocol"

Investigadores/Researchers: **Etzel Cardeña**, David Marcusson-Clavertz
Instituição/Institution: CERCAP, Dept. of Psychology, Lund University (Sweden)

10/12 - "Enhancing Psychokinesis Task Performance Through the Practice of Imagery Strategies: New Psychophysiological Approach (Stage 2)"

Investigadores/Researchers: **Alejandro Parra**, Juan Corbetta
Instituição/Institution: Instituto de Psicología Paranormal, Asoc. Civil, Buenos Aires (Argentina)

21/12 - "The depersonalized brain: Psychophysiological correlates of cortical hyperexcitability associated with signs of depersonalization, derealization and dissociation, in non-clinical samples"

Investigador/Researcher: **Jason John Braithwaite**
Instituição/Institution: Behavioural Brain Sciences Centre, School of Psychology, University of Birmingham (UK)

28/12 - "A Test of Thermodynamic Entropy Effects in Anomalous Cognition"

Investigadores/Researchers: **Edwin May**, Sonali Bhatt Marwaha
Instituição/Institution: Laboratories for Fundamental Research, Palo Alto, California (USA)

38/12 - "Testing a Methodological Formula for Consistent Hit Rates: Matching Psi Ability to Task Difficulty"

Investigadores/Researchers: James Houran, **Rense Lange**
Instituição/Institution: Integrated Knowledge Systems, Inc., Illinois (USA)

52/12 - "The embodied experience of time: modulations of mindfulness meditation"

Investigadores/Researchers: **Marc Christoph Wittmann**, Karin Meissner, Stefan Schmidt
Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg, Institute of Medical Psychology, University of Munich - LMU (Germany)

53/12 - "Libet revisited - The effects of mindfulness meditation training on voluntary action and on time perception: a controlled study with experienced meditators"

Investigadores/Researchers: **Stefan Schmidt**, Han-Gue Jo, Marc Christoph Wittmann
Instituição/Institution: Dep. of Psychosomatic Medicine, University Medical Center Freiburg (Germany)

63/12 - "Forefeeling guilty knowledge - An innovative approach in presentiment research"

Investigadores/Researchers: Wolfgang Ambach, **Alexander Siller**
Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health (IGPP), Freiburg (Germany)

66/12 - "Body and soul: A computational neurophysiological and qualitative investigation of Ganzfeld-induced imagery"

Investigadores/Researchers: **Alexander Sumich**, Daniel Wilson, Nicholas Blagden
Instituição/Institution: Nottingham Trent University (NTU), Division of Psychology (UK)

72/12 - "The psychophysiology of human attachment and stress"

Investigadores/Researchers: **Angela Clow**, Lisa Thorn, Andrea Oskis, Nina Smyth
Instituição/Institution: Department of Psychology, University of Westminster, London (UK)

77/12 - "Human motor re-learning – the use of sensor information fusion"

Investigadores/Researchers: Sandra Maria Caldas da Silva Mouta, Miguel Velhote Correia, Carolina Vila-Chã, Cláudia Silva, **Mariana Silva**, Carla Borges, António Salazar, Dominic Noy
Instituição/Institution: INESC - Porto (Portugal)

84/12 - "Neural bases of time processing: combining neuroimaging techniques and clinical evidence"

Investigadores/Researchers: **Patrizia Bisiacchi**, Gianna Maria Toffolo, Vincenza Tarantino, Elias Casula, Giovanni Mento, Demis Basso
Instituição/Institution: Dipartimento di Psicologia Generale, Università di Padova (Italy)

103/12 - "Psychological and psychophysiological factors in sexual desire and behaviour"

Investigadores/Researchers: **Rui Miguel dos Santos Amaro da Costa**, Tânia F. Oliveira
Instituição/Institution: ISPA, CRL, Lisboa (Portugal)

108/12 - "Clinical parapsychology: Counselling experiences of clients who report anomalous experiences and the training needs of therapists"

Investigador/Researcher: **Elizabeth Roxburgh**
Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), Division of Psychology, School of Social Sciences, The University of Northampton (UK)

119/12 - "Dynamic cortical and nucleus accumbens networks in humans: combining intracranial and MEG recordings"

Investigadores/Researchers: **Bryan Strange**, Javier J. Gonzalez-Rosa, Juan A. Barcia, Stephan Moratti, Raffael Kaplan, Marijn Kroe
Instituição/Institution: Laboratory for Clinical Neuroscience, Centre for Biomedical Technology (CTB), Technology University of Madrid (UPM) and Fundación para la Investigación Biomédica del Hospital Clínico San Carlos - Universidad Complutense de Madrid. Instituto de Investigación Sanitario IdISSC (Spain)

122/12 - "EEG Analysis of Auditory and Visual Stimuli in Normal Controls"

Investigadores/Researchers: William Bunney, Blynn Bunney, James Fallon, Julie Patterson, Steven G. Potkin, **Richard Stein**, Joseph Wu
Instituição/Institution: Department of Psychiatry & Human Behavior, The Regents of the University of California, Irvine (USA)

132/12 - "A direct test of the binding by synchrony hypothesis in humans: the neural correlates of coherent object perception"

Investigadores/Researchers: **Miguel Castelo-Branco**, Maria Ribeiro, João Duarte, Gabriel Costa
Instituição/Institution: IBILI, Faculdade de Medicina, Universidade de Coimbra (Portugal)

133/12 - "The role of the core and extended face networks in visual perception and high level social cognition"

Investigadores/Researchers: **Miguel Castelo-Branco**, Marco Simões, Carlos Amaral, Gregor Philippiak, José Rebola, João Castelhana
Instituição/Institution: IBILI, Faculdade de Medicina, Universidade de Coimbra (Portugal)

167/12 - "Impact of body image related variables on the psychophysiological indicators of human sexual response: comparative study with a clinical and non clinical sample"

Investigadores/Researchers: Maria João Alvarez Martins, Pedro Nobre, Ellen Laan, Sandra Byers, Lisa Vicente, Nuno Monteiro Pereira, **Patricia Pascoal**
Instituição/Institution: Faculdade de Psicologia da Universidade Lisboa and SEXLAB (Laboratórios de Investigação em Sexualidade Humana), Faculdade de Psicologia e Ciências da Educação da Universidade do Porto (Portugal)

191/12 - "Defining the functional architecture of motion vision sensitive visual-motor circuits"

Investigador/Researcher: **Eugenia Chiappe**, Tomás Cruz
Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

198/12 - "Enhancing hypnotic suggestibility with transcranial direct current stimulation"

Investigador/Researcher: **Devin Blair Terhune**
Instituição/Institution: The Chancellor, Masters and Scholars of the University of Oxford, Experimental Psychology (UK)

199/12 - "Brain-to-Brain Communication Enabled with Intracortical Microstimulation"

Investigadores/Researchers: Miguel Angelo Laporta Nicolelis, **Miguel Santos Pais Vieira**
Instituição/Institution: Duke University, Durham (USA)

217/12 - "Temporal modulation of the subventricular zone neural stem cell niche by choroid plexus-cerebrospinal fluid derived factors"

Investigadores/Researchers: **João Carlos Cruz de Sousa**, Fernanda Marques, Joana Palha, Ana Luísa Falcão, Ashley Novais
Instituição/Institution: ICVS/3B's - Laboratório Associado (ICVS/3B's), Universidade do Minho, Braga (Portugal)

222/12 - "EEG functional connectivity in post-hypnotic amnesia"

Investigadores/Researchers: **Marios Kittenis**, Graham Jamieson
Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK) and Neuropsychology Lab, School of Behavioural, Cognitive, and Social Sciences, The University of New England, Armindale (Australia)

227/12 - "System mechanisms of attention: toward the nature of hypnotizability"

Investigadores/Researchers: **Zinaida I. Storozheva**, A. V. Kirenskaya, V. Y. Novototsky-Vlaso, A. N. Chistyakov, V. V. Myamin, S. V. Solntseva
Instituição/Institution: P. K. Anokhin Institute of Normal Physiology and Serbsky National Research Centre for Social and Forensic Psychiatry, Moscow (Russia)

233/12 - "The Study of Experimenter Effects in the Replication of Psi Experiments: A Global Initiative"

Investigadores/Researchers: Marilyn Schlitz, Daryl Bem, **Arnaud Delorme**
Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

234/12 - "Visual categorization of images of live and deceased individuals"

Investigadores/Researchers: **Arnaud Delorme**, Dean Radin
Instituição/Institution: Centre de Recherche Cerveau et Cognition, Toulouse (France) and Institute of Noetic Sciences, Petaluma (USA)

248/12 - "Using hypnosis to distinguish between cognitive and metacognitive conscious experience"

Investigadores/Researchers: **Pedro Alexandre Magalhães de Saldanha da Gama**, Axel Cleeremans, Zoltan Dienes, Amir Raz
Instituição/Institution: Université Libre de Bruxelles (Belgium)

252/12 - "Sleep state misperception mispercieved"

Investigadores/Researchers: **Eus J. W. Van Someren**, J. Ramautar
Instituição/Institution: Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam (The Netherlands)

256/12 - "Contemplative Development Mapping Project"

Investigadores/Researchers: **Willoughby Britton**, Catherine Kerr, Harold Roth, Jared Lindahl, Jake Davis, Chris Kaplan, Nathan Fisher
Instituição/Institution: The Clinical and Affective Neuroscience Laboratory, Brown University and Department of Psychiatry and Human Behavior, Brown University Medical School, Providence (USA)

270/12 - "Synchronicity and Psi: A Controlled Comparison"

Investigadores/Researchers: **John Palmer**, Nick Edington
Instituição/Institution: Rhine Research Center, Durham (USA)

272/12 - "Exploring the interactions between paranormal belief and disbelief and subjective experiences with the Shakti helmet"

Investigadores/Researchers: **Christine Simmonds-Moore**, Don Rice, Ron Hopkins, Richard LaFleur, Chase O'Gwin
Instituição/Institution: Psychology Department, University of West Georgia, Carrollton (USA)

282/14 - "The Mindful Eye: Smooth Pursuit and Saccadic Eye Movements in Meditators and Non-meditators"

Investigadores/Researchers: Veena Kumari, **Elena Antonova**
Instituição/Institution: Institute of Psychiatry, King's College London (UK)



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AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

Resumos das Comunicações *Abstracts*

1 de abril – sexta-feira *April 1 – Friday*

2nd session

Placebo and Nocebo in Medicine

Moderator - Miguel Castelo-Branco

Unsolved, forgotten, and/or ignored features of the placebo response in medicine

Paul Enck

Placebo Effects in Clinical Practice

Ted Kaptchuk

Placebo science: Magic you can really believe in

Amir Raz

Conferência

Keynote lecture

Placebo analgesia - challenges and opportunities for clinical practice

Damien Finniss



Miguel Castelo-Branco Professor de Biofísica e Matemática e Ciências da Visão e Diretor do IBILI e ICNAS, Universidade de Coimbra. Vários prêmios na área das Neurociências. Dezenas de artigos publicados na área da Bioengenharia, Neurociência da Visão e Neurociência Clínica. Consultor (*peer-reviewer*) de várias revistas científicas nas áreas de Neurociências e Ciências da Visão. Secretário científico da Sociedade Europeia EVER (Ciências da Visão). Interesses científicos: neurociências sensoriais e cognitivas em populações saudáveis e doentes.

Professor of Biophysics and Mathematics and Visual Sciences and Director of IBILI and ICNAS, University of Coimbra. Several awards on Neuroscience. Dozens of papers published on Bioengineering, Visual Neuroscience and Clinical Neuroscience. Consultant (peer-reviewer) for several journals on Neuroscience and Visual Sciences. Scientific Secretary of the European Society EVER (Visual Sciences). Research interests: sensory and cognitive neuroscience in healthy and ill populations.

UNSOLVED, FORGOTTEN, AND/OR IGNORED FEATURES OF THE PLACEBO RESPONSE IN MEDICINE

Paul Enck

Despite substantial progress in our understanding of the placebo response and the mechanisms driving it during the last decade, a number of issues have remained unsolved in placebo research, or even have been generated recently but require novel solutions.

Experimental: Intra-individual stability, cross-modality, long-term efficacy, age and sex contribution, cross-cultural influence, placebo by proxy.

Placebo experiments in experimental settings show their duration for hours and days, and some may go beyond; clinical trials overlook the placebo effect in terms of weeks to months, while chronicity of diseases and symptoms starts at 6 months and may last for years. Intra-individual stability over time, cross-modality, and the contribution of age and sex to the placebo response are incompletely understood, cross-cultural effects have never been investigated, and while the term "placebo by proxy" has been invented, it has rarely been investigated.

Clinical: Nutritional interventions, physical therapy, psychotherapy, daily medical routine.

When we speak of placebos in clinical trials and routine, we usually think of drugs (pills, injections etc.) and sometimes of "sham interventions", but few data exist with respect to nutritional interventions or physical therapy, and the "placebo control" of psychotherapy seems even too complex to be discussed and approached at all. And what will happen to the placebo effect in "personalized medicine"?

Societal: Ethical diversity of placebo use, ethical framework of placebo research, legal and juridical limits of placebo use, economical relevance of placebo effects.

Cultural differences in the understanding of the placebo effect in medicine must result in a different ethical understanding of the placebo use, be it in daily routine or in medical research, similarly than for legal and juridical limits of the use of placebos. Neither has been subject of thorough scientific research. While we promote harnessing the placebo effect, it has not yet been shown to be of any (e.g. economical) benefit. Patient education and encouragement of shared decision-making may enhance a more internal "locus of control" and in consequence may lower placebo responses.

Technical: Electronic and ambulatory (e&mHealth) devices, remote doctor-patient relation, virtual doctors & experimenters, social media.

Our understanding of the doctor-patient relationship is based on a 20th century face-to-face communication, while eHealth and mHealth systems will determine this relationship in the future. Computer systems for distant and internet-based communication are already in use, as are remote diagnostic and therapeutic tools, virtual doctors/experimenters and automated therapeutic algorithms, and compliance and feedback control units, e.g. smart phones. Social media and expert databases have taken a role in counseling the patient – where are the placebo responses here?



Paul Enck Diretor de Investigação e Professor no Departamento de Medicina Interna VI/ Medicina Psicossomática e Psicoterapia dos *University Hospitals Tübingen*, Alemanha. Possui mais de 190 artigos publicados com dados originais em revistas científicas com revisão por pares principalmente em neurogastroenterologia. É Presidente Honorário da *German Neurogastro Society*. É revisor em diversas agências de financiamento e consultor de numerosas empresas farmacêuticas e de tecnologia médica. Interesses científicos: medicina psicossomática, psicoterapia e neurogastroenterologia.

Director of Research and Professor, Department of Internal Medicine VI/ Psychosomatic Medicine and Psychotherapy, University Hospitals Tübingen, Germany. More than 190 original data paper in scientific, peer-reviewed journals mainly in neurogastroenterology. Honorary President of the German Neurogastro Society. Reviewer for several grant agencies and consultant for numerous companies in pharma and medical technology. Research interests: psychosomatic medicine, psychotherapy and neurogastroenterology.



AQUÉM E ALÉM DO CÉREBRO

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PLACEBO EFFECTS IN CLINICAL PRACTICE

Ted Kaptchuk

Despite utilizing dummy controls, randomized clinical trials testing new medications and procedures provide imprecise and not dependable information on placebo effects. Besides the psychosocial effects of the medical symbols, rituals and the patient-clinician relationship, the placebo response in such trials is likely to include such non-placebo factors as regression to the mean, spontaneous remission and natural waxing and waning of illness. Laboratory research on placebo effects is generally more precise but often cannot elucidate what happens in clinical practice. This talk will present several studies of placebo effects in clinical medicine that attempted to control for extraneous non-placebo effects. The presentation will include studies that sought to demonstrate that i) placebo effects can be administered in a manner analogous to dose dependent in irritable bowel syndrome (BMJ 2008); ii) the efficacy of placebo treatments are not dependent on deception or concealment (PLoS One 2010); iii) placebo effects in asthma are limited to subjective outcomes in acute asthma (New England Journal of Medicine 2011); and placebo effects account for 50% of the active medication effect in acute episodic migraine (Science Translational Medicine, 2014).



Ted Kaptchuk Professor de Medicina na *Harvard Medical School*, Boston; Professor Adjunto na *School of Public Health, University of Alabama*, Birmingham, e Diretor do *Harvard-wide Program in Placebo Studies & Therapeutic Encounter* sediado no *Beth Israel Deaconess Medical Centre*, Boston, EUA. Membro do Conselho Editorial e revisor em revistas de excelência em Medicina e Medicina Alternativa e Complementar. Interesses científicos: investigação multidisciplinar dos efeitos placebo, controlos placebo e a relação paciente-médico como integradora de conceitos, desenhos de investigação e métodos analíticos provenientes das ciências clínicas, básicas e sociais, bem como das humanidades, Medicina Tradicional Chinesa, experiências fisiológicas, neuroimagem, investigação antropológica e medicina integrativa orientada para o paciente.

Professor of Medicine, Harvard Medical School, Boston, Adjunct Professor, School of Public Health, University of Alabama, Birmingham, and Director of the Harvard-wide Program in Placebo Studies & Therapeutic Encounter hosted at the Beth Israel Deaconess Medical Centre, Boston, USA. Member of the Editorial and Peer-Review Board of outstanding Journals in Medicine and Alternative and Complementary Medicine. Research interests: multi-disciplinary investigation of placebo effects, placebo controls and the patient-physician relationship that integrates concepts, research designs and analytic methods drawn from the clinical, basic, and social sciences as well as the humanities, Traditional Chinese Medicine, physiological experiments, neuroimaging, anthropological investigations, patient-oriented integrative medicine.

PLACEBO SCIENCE: MAGIC YOU CAN REALLY BELIEVE IN

Amir Raz

Why do red placebos stimulate whereas blue placebos calm? Why do more placebos work better than few? And why do more expensive placebos work better than cheaper ones? These are some of the key questions that often come to mind when we consider the slippery and counterintuitive field of placebo science. Rather than consider placebos through the narrow narrative of “sugar pills” in clinical trials or as modulators of pain, we provide various perspectives on how psychosocial parameters - such as theatrics, interpersonal rapport, historical and contemporary context, corporate memory, expectation, empathy, hope, conditioning, symbolic thinking, and suggestion – play a role in forming placebo responses and placebo effects. Modern perspectives on placebos exist in society, including in education, government, industry, media, and contemporary culture. These accounts together with neuroimaging, genetic, and behavioural assays make for a cogent and converging account of the qualities and virtues of placebos across a wide range of disciplines relevant to this fascinating human behaviour.



Amir Raz Professor Associado, Neurociências e Psicologia, *Canada Research Chair* em Neurociência Cognitiva da Atenção, Departamento de Psiquiatria, Faculdade de Medicina, *McGill University*, Montréal, Canadá. Comunicador ativo sobre ciência popular com documentários sobre tópicos específicos da neurociência (por ex. na BBC, National Geographic e CBC). Autor de mais de uma centena de publicações com revisão por pares em revistas de excelência e dos dois recentes livros *Talking Placebos: Modern perspectives on placebos in society* e *Hypnosis and Meditation: Towards an Integrative Science of Conscious Planes*. Interesses científicos: psicologia, neurociências (processos automáticos e controlo voluntário), filosofia, pensamento crítico, neuropsicologia, hipnose, ciência do placebo.

Associate Professor, Neuroscience and Psychology, Canada Research Chair in the Cognitive Neuroscience of Attention, Department of Psychiatry, Faculty of Medicine, McGill University, Montréal, Canada. Active communicator of popular science with documentaries on specific neuroscience topics (e.g., with the BBC, National Geographic, and CBC). Authored more than a hundred peer-reviewed publications in outstanding journals as well as the two recent books “*Talking Placebos: Modern perspectives on placebos in society*” and “*Hypnosis and Meditation: Towards an Integrative Science of Conscious Planes*”. Research interests: psychology, neuroscience (automatic processes and voluntary control), philosophy, critical thinking, neuropsychology, hypnosis, placebo science.



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

PLACEBO ANALGESIA - CHALLENGES AND OPPORTUNITIES FOR CLINICAL PRACTICE

Damien Finniss

Placebo effects have been recognised in medicine for over two hundred years. Unfortunately the evolution of and variability in terminology has often painted “placebo” in a negative manner. Deceptive use of placebo treatments to appease patients and the evolution of placebo control groups in clinical trials (where strong results in the placebo arm can detract from the index treatment under investigation), has also contributed to a negative appraisal by some. However, there has been an exponential rise over the past twenty years in research focusing on placebo effects and this has dramatically changed the landscape for researchers, clinicians, patients and the broader community. The field is very much a positive and exciting one for researchers and clinicians alike.

Almost all routine medical treatments involve a therapeutic ritual or context. To understand how that context affects a patient, one can remove the treatment itself and replace it with a simulation of that therapeutic ritual (a placebo). It is proven that the therapeutic context itself has the ability to specifically modulate many biological processes thereby altering patient’s symptoms. With this in mind, the outcome of any medical treatment is likely to be due to both the targeted treatment itself and the effect of the specific treatment ritual on the patient’s brain and body (the placebo effects), although no placebo is needed to be given.

There have been significant advances in the understanding of how placebo effects work. The roles of learning and conditioning, expectation, choice of treatment and more perceptual components (such as value and degree of technology) have all been supported at varying levels. Placebo effects can also be demonstrated even when patients are aware that they have been given a traditional placebo. These and many more elements of the therapeutic ritual are underpinned by multiple specific biological processes.

Many clinicians train and work in a classic biomedical framework. The acceptance that a treatment can elicit symptom relief through at least two different mechanisms; the treatment itself and the effect of the treatment context (the so called placebo component) on the patient’s brain is critical to application of this research at the patient-clinician interface. Challenging dated paradigms (such as use of placebo to diagnose genuine symptomatology) and progressing conceptual, ethical, educational and financial frameworks should parallel the rapidly growing experimental work in this field. This represents one way to improve our understanding of the mind-brain-body interaction and apply it directly to improving health care globally.



Damien Finniss Professor Associado, investigador e médico na *University of Sydney Pain Management Research Institute, Royal North Shore Hospital, e Griffith University School of Rehabilitation Sciences, Australia*. Presidente da *International Association for the Study of Pain (IASP)*, grupo do Placebo. Tem um *background* clínico ímpar, com formação clínica inicial e experiência em fisioterapia, tendo-se especializado em gestão da dor e trabalhado num grande centro multidisciplinar de gestão da dor crónica. Continuou depois com formação clínica em medicina, trabalhando tanto em doenças agudas como crónicas, antes de regressar à prática da Anestesia e da Medicina da Dor. Publicou múltiplos artigos e capítulos de livros sobre o tema do Placebo. Interesses científicos: papel do contexto terapêutico e como este pode modular a dor e os resultados dos tratamentos, efeitos de placebo e implicações clínicas da investigação acerca do placebo.

Associate Professor, researcher and clinician, University of Sydney Pain Management Research Institute, Royal North Shore Hospital, and Griffith University School of Rehabilitation Sciences, Australia. Chairman of the International Association for the Study of Pain (IASP) group on Placebo. He has a unique clinical background with initial clinical training and experience in Physiotherapy, where he specialised in Pain Management working in a large multidisciplinary chronic pain management centre. He then proceeded to clinical training in medicine, working in both general acute and chronic medicine, before returning to current roles in Anaesthesia and Pain Medicine practice. Published multiple papers and textbook chapters on the topic Placebo. Scientific interests: role of the therapeutic context and how this can modulate pain and treatment outcomes, placebo effects and clinical implications of the research on placebo.

1 de abril – sexta-feira April 1 – Friday

Parallel Workshops (W)

W 1 – Room Braga; only questions from the audience will be translated

Placebo effects - Mechanisms: Neurobiological basis and controversies

Moderator - Axel Cleeremans

Invited discussants: Fabrizio Benedetti, Ted Kaptchuk, Jon-Kar Zubieta

W 2 – Room Medicoteca; only questions from the audience will be translated

Placebo or Nocebo effects - Methodological issues: The Cochrane database of Systematic reviews

Moderator - Dick Bierman

Invited discussants: Paul Enck, Tor Wager

W 3 – Room Auditorium; simultaneous translation will be assured

Meditation, Mindfulness and Healing: The significance of findings in Mind-Matter interaction research

Moderator - Mário Simões

Invited discussants: Amir Raz, Tania Re, Stefan Schmidt, Jessica Utts



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W 1

PLACEBO EFFECTS - MECHANISMS: NEUROBIOLOGICAL BASIS AND CONTROVERSIES

Moderator - Axel Cleeremans

Invited discussants: Fabrizio Benedetti, Ted Kaptchuk, Jon-Kar Zubieta

This workshop will constitute an opportunity for interactions between the audience and three of our distinguished speakers, Fabrizio Benedetti, Ted Kapchuk and Jon-Kar Zubieta. The workshop will focus on the influence that our beliefs may exert on behaviour and on physiology, with particular emphasis on the putative mechanisms that subtend such interactions between mind and body. While the placebo effect is the most widely documented phenomenon in this domain, the germane processes of hypnosis and suggestion are also highly relevant. After a short introduction, the moderator will invite participants to engage the speakers in a discussion, drawing both the material introduced in the speakers' lectures as well as from their own experiences.



Axel Cleeremans Diretor de Investigação, Grupo da Consciência, Cognição e Computação, Universidade Livre de Bruxelas, Bélgica. Autor de múltiplos artigos científicos sobre aprendizagem implícita e consciência e editor dos livros *"The Unity of Consciousness: Binding, Integration and Dissociation"* e *"The Oxford Companion to Consciousness"*. Membro da Real Academia da Bélgica. Interesses científicos: consciência e aprendizagem implícita, modelos de cognição consciente e não consciente, rede neuronal de processos cognitivos.

Research Director, Consciousness, Cognition & Computation Group, Université Libre de Bruxelles, Belgium. Author of numerous papers on implicit learning and consciousness and editor of the books "The Unity of Consciousness: Binding, Integration and Dissociation" and "The Oxford Companion to Consciousness". Member of the Royal Academy of Belgium. Research interests: consciousness and implicit learning, models of conscious and unconscious cognition, neural network of cognitive processes.

W 2

PLACEBO OR NOCEBO EFFECTS - METHODOLOGICAL ISSUES: THE COCHRANE DATABASE OF SYSTEMATIC REVIEWS

Moderator - Dick Bierman

Invited discussants: Paul Enck, Tor Wager

In this workshop, after a short introduction into the phenomenon of Nocebo, the consequences of Nocebo in society and the medical profession are going to be discussed.

The format will be an interview by the moderator with the two discussants. As an example, one of the questions might cover the relation between Nocebo and black magic.

We expect the audience to participate by asking questions or communicating their own experiences with the Nocebo effect.



Dick Bierman Regente (Jubilado) da Cadeira *Heymans* de Experiências Excepcionais, Universidade de Humanísticas, Utrecht, Holanda. Doutorado em Física Experimental, Universidade de Amesterdão, Holanda. Interesses científicos: estudos da consciência, inteligência artificial, aprendizagem sob estados alterados de consciência (em especial durante o sono), papel das emoções não conscientes na tomada (intuitiva) de decisão, pré-sentimento (excitação corporal anômala, que precede acontecimentos emocionais), relação entre a física quântica e consciência.

Heymans Chair of Exceptional Experiences, University for Humanistics, Utrecht, Netherlands (Emeritus). PhD in Experimental Physics, University of Amsterdam, Netherlands. Research interests: consciousness studies, artificial intelligence, learning during altered states of consciousness (especially during sleep), non-conscious emotions and their role in (intuitive) decision-making, pre-sentiment (anomalous body arousal preceding emotional events), relation between quantum physics and consciousness.



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W 3

MEDITATION, MINDFULNESS AND HEALING: THE SIGNIFICANCE OF FINDINGS IN MIND-MATTER INTERACTION RESEARCH

Moderator - Mário Simões

Invited discussants: Amir Raz, Tania Re, Stefan Schmidt, Jessica Utts

The moderator shall present a brief PowerPoint introduction to the themes of the workshop and in the sequence shall interact with the audience with a short collective exercise (maximum 10 minutes) illustrating the subjects in discussion and it works as a "teaser" for the discussants and the audience.



Mário Simões Professor de Psiquiatria e de Ciências da Consciência, Faculdade de Medicina de Lisboa. Diretor do Curso de Pós-Graduação em Hipnose Clínica e Experimental da Faculdade de Medicina de Lisboa. Interesses científicos: psicologia e psicofisiologia dos estados alterados de consciência, etnomedicina, experiências excecionais humanas e psicologia e espiritualidade.

Professor of Psychiatry and Consciousness Sciences, Faculty of Medicine of Lisbon, Portugal. Director of the Post-Graduation Course in Clinical and Experimental Hypnosis, Faculty of Medicine of Lisbon. Research interests: psychology and psychophysiology of altered states of consciousness, ethnomedicine, human exceptional experiences and psychology and spirituality.



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Resumos das Comunicações *Abstracts*

2 de abril – sábado April 2 – Saturday

3rd session
Placebo, Health and Healing
Moderator - **Caroline Watt**

Cross-cultural aspects of Health and disease
Antonio Guerci

The Possible Role of Mental Influence in Evidence-Based Medicine
Jessica Utts

Healing through meaning: placebo, meditation and beyond
Stefan Schmidt

Conferência Keynote lecture
Brains and Beyond: The Unfolding Vision of Health and Healing
Larry Dossey



Caroline Watt Membro fundador do *Koestler Parapsychology Unit* e Docente Sênior, Departamento de Psicologia, Universidade de Edimburgo, Escócia. Foi Investigadora Sênior *Perrott-Warrick* e Presidente da *Parapsychological Association*. É coautora do livro "*An Introduction to Parapsychology*" e autora de artigos em livros e revistas científicas na área da parapsicologia e de crenças paranormais. Interesses científicos: questões de replicabilidade em parapsicologia, a psicologia e a parapsicologia de experiências de sonhos pré-cognitivos.

A founder member of the Koestler Parapsychology Unit, and Senior Lecturer, Psychology Department, University of Edinburgh, Scotland. Former Perrott-Warrick Senior Researcher and Past President of the Parapsychological Association, co-author of the book "An Introduction to Parapsychology" and author of journal articles on parapsychology and paranormal beliefs. Research interests: replication issues in parapsychology, the psychology and parapsychology of precognitive dream experiences.

CROSS-CULTURAL ASPECTS OF HEALTH AND DISEASE

Antonio Guerci

Health is not a state of perfect balance as we think in western world, but a dynamic interplay between physiology, environment, and cultural strategies, which considers the disease as a phase in this process.

Non-Western cultures treat the body and the person in accordance with a strategy that could be defined highly socialized.

Disease experiences are therefore characterized by lack of autonomy in relation to other domains of social reality as family organization, political relations between groups, environmental interactions...

Disease is not an individual but a collective event.

The therapist in non-western societies is:

- the person who harmonizes the social group
- the catalyst between the patient and the healing
- the holder of knowledge
- the defender of tradition
- the guardian of the remedies

In 1965 Mauss invited health professionals to explore those territories where many health situations are waiting to be discovered, explained, labelled: he believed in a deep dialectic between anthropology and disciplines of the mind.

Devereux affirmed in 1971 that it is necessary to approach the state of health or disease not on the basis of this or that culture, but focusing on the concept of culture, which is considered as a experience lived and/or learned.

We assume what is written by Coppo in 1996: the culture "shapes" suffering, developing and legitimizing containers: models of diseases ready to be wear.

This function is called "pathoplastic": shaping of the disease; function that is not necessarily the same pathogenic function of the disorder.

Ethnomedicine is the study of traditional medicines of the people and is focused on preventive processes, hygienic, curative, magical-religious and empirical; these last ones use principles from the three nature's kingdoms.

Most of the traditional medicine is the result of mental processes of the intuitive knowledge of the phenomena and thanks to instances ideational synthetic-inductive where the person is examined on the basis of a complete view of his being / existence.



Antonio Guerci Professor de Antropologia, Diretor do Departamento de Ciências Antropológicas, Diretor do Museu de Etnomedicina "A. Scarpa", e Diretor da cadeira da UNESCO "Antropologia da saúde. Biosfera e sistemas de cura", *University of Genoa*, Itália. Consultor especializado na *Chinese University of Hong Kong*, China, no "Programa de Medicinas Tradicionais", e na *University of Toluca*, México, no programa "Antropologia e Dor". Professor Honorário na *Universidad Científica del Sur*, Lima, Perú. Vice-presidente da *European Society of Ethnopharmacology*. Publicou mais de 380 títulos incluindo livros, monografias, artigos e comunicações científicas. Interesses científicos: antropologia médica, etnomedicina, biotipologia humana e adaptação ambiental, cultural e biológica de diferentes populações humanas.

Full Professor of Anthropology, Head, Department of Anthropological Sciences, Head of the Museum of Ethnomedicine "A. Scarpa", and Head of UNESCO Chair "Anthropology of health. Biosphere and care systems", University of Genoa, Italy. Expert Adviser of the Chinese University of Hong Kong, China, in "Traditional Medicines Programme", and of the University of Toluca, Mexico, in the programme "Anthropology and Pain". Honorary Professor in Universidad Científica del Sur, Lima, Peru. Vice President of the European Society of Ethnopharmacology. Published over 380 titles including books, monographs, articles and scientific communications. Research interests: medical anthropology, ethnomedicine, human biotypology and environmental, cultural and biological adaptation of different human populations.



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THE POSSIBLE ROLE OF MENTAL INFLUENCE IN EVIDENCE-BASED MEDICINE

Jessica Utts

Clinical trials and other statistical studies have contributed a vast amount of knowledge to modern medicine. But results from research in parapsychology suggest that there is much more that can be learned by expanding our models of what constitutes evidence. Not only do the results of these studies suggest that mental influence could play a role in healing, but they also call into question some of the most basic tenants of modern medical research. For instance, if information can be gained by means other than the five senses, can a study really be double-blind, or even single-blind? Is true randomization (to treatment and placebo groups, for instance) possible? Could the replication crisis in medical research partly be due to experimenter effects resulting from psi-induced information? This talk will discuss some results from parapsychology and how they can inform research in evidence-based medicine.



Jessica Utts Professora e Regente do Departamento de Estatística, *University of California*, Irvine, EUA. Diretora de avaliação no *Advancement Placement Statistics in the Educational Testing Service*. Presidente da Direção do *Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)* e membro da Direção do *Institute of Statistical Sciences (NISS)*. Publicou artigos científicos sobre questões estatísticas na parapsicologia e na medicina alternativa. Editora do livro *Seeing Through Statistics*, 4ª edição (2014) e coeditora do livro *Mind On Statistics*, 5ª Edição (2015) e *Statistical Ideas and Methods* (2006). Interesses científicos: estatística aplicada.

Professor and Chair, Department of Statistics, University of California, Irvine, USA. Chief Reader, Advancement Placement Statistics in the Educational Testing Service. Chair of the Board of the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) and member of the Board of National Institute of Statistical Sciences (NISS). Published scientific papers on statistics of parapsychological and alternative medicine issues. Editor of the book Seeing Through Statistics, 4th Edition (2014) and co-editor of Mind On Statistics, 5th Edition (2015) and of Statistical Ideas and Methods (2006). Research interests: applied statistics.

HEALING THROUGH MEANING: PLACEBO, MEDITATION AND BEYOND

Stefan Schmidt

Many findings from placebo research cannot be explained within the framework of a physiological and mechanical model of human functioning. The placebo effect, also termed the meaning effect, demonstrates that consciousness and its content are relevant for healing. From this view many healing techniques within mind-body medicine can be reframed as placebo responses in a positive sense. But on the other hand one can also infer from the findings in mind-body medicine which features are important to generate meaning effects. Meditation e.g. can be seen as a technique to enhance intentions and to change meaning with respect to one's own health. Effects of meditation based interventions are revisited from this perspective.

But consciousness and intention in a co-created world may not be limited only to the self. There is a longstanding tradition within the field of anomalies research of assessing the effects of intention on the physiology of a remote person. Three dominating experimental paradigms have evolved: (i) direct mental interaction experiments (DMILS) assess the interaction between intentional efforts in one person and the physiology (i.e. electrodermal activity) in a remote person, (ii) Remote Staring experiments assess the interaction between a remote starrer and the physiology of the staree, (iii) Attention Focusing Facilitation experiments finally address whether focusing in meditation-like situations can be facilitated by a remote helper. More than 60 studies with close to 2000 trials are summarized in three meta-analyses. The meta-analyses arrive approximately at the same effect sizes. Thus, it seems to be likely that these three paradigms have the same underlying mechanism. What is shared by all of them is the intentional effort to interact with a remote person.



Stefan Schmidt Investigador e Diretor da Secção Académica do Grupo de Avaliação de Medicina Complementar, Departamento de Medicina Psicossomática e Psicoterapia, do *University Medical Centre*, Freiburg, Alemanha. Professor de Estudos Transculturais da Saúde na *Europa University Viadrina*, Frankfurt (Oder), Alemanha. Interesses científicos: medicina complementar e alternativa, psicofisiologia, investigação em consciência, meditação atencional consciente (“*mindfulness*”), parapsicologia experimental, experiências excepcionais, investigação sobre placebo e interface cérebro-computador.

Research Fellow and Head of the Academic Section at the Evaluation Group for Complementary Medicine, Department of Psychosomatic Medicine and Psychotherapy, University Medical Centre, Freiburg, Germany. Professor of Transcultural Health Studies, Europa University Viadrina, Frankfurt (Oder), Germany. Research interests: complementary and alternative medicine, psychophysiology, consciousness research, mindfulness meditation, experimental parapsychology, exceptional experiences, placebo research and brain-computer interface.



AQUÉM E ALÉM DO CÉREBRO

Casa do Médico - Porto • 30 de março a 2 de abril de 2016

BRAINS AND BEYOND: THE UNFOLDING VISION OF HEALTH AND HEALING

Larry Dossey

The use of mental means to facilitate healing is ancient, dating to the origins of shamanism fifty thousand years ago. This discussion will trace the reemergence of this phenomenon in modern times, beginning with the ascendance of modern science in Western medical practice.

When science began to be influential in medicine in the mid-1800s, consciousness was judged to play almost no role in the elaboration of health and illness. Shortly following World War II, however, consciousness began to be recognized as a factor in health, resulting in a field that is now known as mind-body medicine. In the late twentieth century, the role of consciousness further shifted, as evidence surfaced that “distant healing intentions” might affect clinical outcomes. In the 1980s, controlled clinical trials in humans began to explore the correlation between clinical outcomes and willing, wanting, wishing, or praying for a healthy result. A related field called DMILS, distant mental interactions with living systems, also gained traction, in which non-humans - animals, cells, plants, and microorganisms - were employed as subjects. Systematic and meta-analyses of hundreds of human and non-human experiments have demonstrated proof of principle: that if person A and person B are strictly isolated by shielding, distance, or time, A can indeed affect B in a small but significant degree. The question of whether such effects are clinically significant awaits resolution; further clinical trials are required to answer this important question. Meanwhile, as we await further developments, the implications for basic science epistemology and ontology and for pragmatic efforts to improve health and healing remain vast, deep, and perennially intriguing, and merit the attention of anyone concerned about the nature of consciousness and how it manifests in the world.

The mechanism of such effects is controversial. The effects of distant healing intention appear to be nonlocal - i.e., they are not localized or confined to specific points in space, such as brains or bodies, or to time, such as the present. As such, they resemble nonlocal phenomena recognized in quantum physics - but whether the resemblance is valid, or merely reflects accidental correlations of language, remains to be seen through further investigation.

Another crucial finding, based in hundreds of epidemiological studies, is the positive correlation of spiritual or religious practices with increased health and longevity. Those following some type of spiritual/religious commitment live significantly longer on average than those who do not, and they typically have a lower incidence of most major diseases. These correlations are so significant that it appears unethical to ignore them.

These developments may have ethical and practical relevance to the planetary problems confronting the human species at this point in history.



Larry Dossey Médico de Medicina Interna, autor, consultor e docente. Cofundador e editor-executivo da revista, *com revisão por pares*, *Explore: The Journal of Science and Healing* e foi fundador e editor-executivo da revista *Alternative Therapies in Health and Medicine*. Foi presidente do *The Isthmus Institute of Dallas*. Anterior co-presidente do painel sobre Intervenções Mente/Corpo, do *National Centre for Complementary and Alternative Medicine, National Institutes of Health*. Publicou numerosos artigos e é autor de doze livros, entre os quais *One Mind: How Our Individual Mind Is Part of a Greater Consciousness and Why It Matters* (2013), *The Power of Premonitions: How Knowing the Future Can Shape Our Lives* (2009). Interesses científicos: sustentar o chamado movimento de saúde holística num modelo que seja cientificamente respeitado e que, ao mesmo tempo, responda às necessidades espirituais íntimas do ser humano.

Physician of Internal Medicine, author, consultant and lecturer. Co-Founder and executive editor of the peer-reviewed journal Explore: The Journal of Science and Healing and was founder and executive editor of the journal Alternative Therapies in Health and Medicine. Past president of The Isthmus Institute of Dallas. Former co-chairman of the Panel on Mind/Body Interventions, National Centre for Complementary and Alternative Medicine, National Institutes of Health. Published numerous articles and is the author of twelve books, including One Mind: How Our Individual Mind Is Part of a Greater Consciousness and Why It Matters (2013), The Power of Premonitions: How Knowing the Future Can Shape Our Lives (2009). Scientific interests: to anchor the so-called holistic health movement in a model that is scientifically respectable and which, at the same time, answers to humankind's inner spiritual needs.

2 de abril – sábado April 2 – Saturday

Mesa-redonda

Ethics of the Placebo in Medicine

Chairman - **João Lobo Antunes**

Participants: **Irving Kirsch, Paul Enck, Damien Finniss**

Round-table



João Lobo Antunes Professor Jubilado de Neurocirurgia, Universidade de Lisboa. Presidente do Conselho Nacional de Ética para as Ciências da Vida (CNECV). Presidente Emérito do Instituto de Medicina Molecular. Vice-Presidente do *Health Cluster* Portugal. Publicou mais de cento e oitenta artigos nas áreas das neurociências, da cultura e da ética. Membro do conselho editorial de revistas de excelência em neurocirurgia. Recebeu vários prémios, entre os quais o “Prémio Pessoa”. Autor de vários livros, entre os quais “Egas Moniz - Uma Biografia, A Nova Medicina” e “Ouvir com Outros Olhos”. Interesses científicos: ética em medicina, neurocirurgia, temas de educação no ensino superior.

Professor Emeritus of Neurosurgery, University of Lisbon, Portugal. President of the Portuguese National Ethics Council for the Life Sciences (CNECV). President Emeritus of the Institute of Molecular Medicine. Vice-president of the Health Cluster Portugal. Published more than one hundred and eighty papers in neuroscience, culture and ethics. Member of the editorial board of outstanding Journals in neurosurgery. Received several awards including "Pessoa Prize". Author of several books including Egas Moniz - Uma Biografia, A Nova Medicina, and Ouvir com Outros Olhos. Research interests: ethics in medicine, neurosurgery, education issues in higher education.



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Resumo do poster apresentado pela Fundação Bial *Abstract of the poster presented by the Bial Foundation*

BIAL FOUNDATION GRANTS IN NUMBERS: A BIBLIOMETRIC STUDY

Aim: To analyze and measure the quantity and quality of papers published in the scope of the research projects funded by the Bial Foundation from 1994 until today.

Method: The research projects' productivity was measured by counting the number of full papers published from 1995 to 2015 (inclusive) and indexed in Scopus or Web of Science (WoS). The quality of publications was indirectly evaluated by the journal impact factor and by the quartile score (provided by the Journal Citation Reports), to mitigate differences between research fields. When a journal was associated to more than one subject category and as a result had a different position in the quartile ranking (Q1, Q2, Q3 or Q4), the best one was chosen. The publications' impact in scientific community was evaluated by the number of citations retrieved from Web of Science™ Core Collection in March 2016.

Results: The Bial Foundation has funded 537 projects since 1994, in the areas of Psychophysiology (266 grants, 49.5%), Parapsychology (194 grants, 36.1%) and Both areas (77 grants, 14.4%). These projects have been developed in universities and research centers from 25 different countries.

In the scope of the aforementioned projects, 696 indexed papers (conference paper, journal article, review, letter and book chapter) were published, from 1995 to 2015. Excluding the projects of the last edition (2014/2015), which have recently started, the ratio of indexed publications by funded projects per area, was on average 2 indexed papers per project in Psychophysiology and on average 1 indexed paper per project in Parapsychology and in Both areas.

539 papers were published in journals with an average impact factor of 3.3, out of which 93 published in journals with an impact factor above 5. It is noteworthy that the majority of papers was published in top-ranked journals of quartile 1 (n = 259, 47%) and quartile 2 (n = 119, 22%).

A total of 7883 citations were computed, with 501 papers being cited on average 16 times (M= 15.74), ranging from 1 to 232 times and 102 papers being cited more than 20 times. The poster highlights the 10 most cited papers.

Conclusion: The productivity, the quality and impact of the scientific publications are being systematically monitored supplying a basis for evaluating, orienting and stimulating current and future research projects funded by the Bial Foundation. Along the years, there has been a progressive increase of papers published in high impact journals and the Bial Foundation aims to reinforce this trend.

Keywords: Bial Foundation grants, bibliometric indicators, journal impact factors, number of citations.

**Posters com resultados finais apresentados pelos bolsеiros da Fundação Bial
e/ou disponíveis em www.fundacaobial.com**

**Posters with final results presented by the Bial Foundation Fellows and/or
available at www.fundacaobial.com**

2008

119/08 - “Comparison between false memories and subliminal stimulation in DRM paradigm”

Investigadores/*Researchers*: Maria de Fátima de Jesus Simões, Isabel Maria Barbas dos Santos, Paulo Joaquim Fonseca da Silva Farinha Rodrigues
Instituição/*Institution*: Centro de Investigação em Educação e Ciências do Comportamento, Departamento de Ciências da Educação, Universidade de Aveiro (Portugal)
Duração/*Duration*: 2009/02 – 2015/09

2010

61/10 - “Translation of neuron-glia interactions in complex cognitive functions”

Investigadores/*Researchers*: João Filipe Pedreira de Oliveira, Nuno Sérgio Mendes Dias, Luis Ricardo Monteiro Jacinto
Instituição/*Institution*: Instituto de Investigação em Ciências da Vida e da Saúde (ICVS), Escola de Ciências da Saúde, Universidade do Minho, Braga (Portugal)
Duração/*Duration*: 2011/05 – 2015/07

144/10 - “Nonlinear Processing of Emotional Information: behavioral evidence and neurophysiological correlates”

Investigadores/*Researchers*: Manuel Fernando Santos Barbosa, João Eduardo Marques Teixeira, Fernando Ricardo Ferreira Santos, Joana Maria Barbosa Vieira, Ana Cristina Basto Abreu
Instituição/*Institution*: Laboratório de Neuropsicofisiologia da Faculdade de Psicologia e Ciências da Educação, Universidade do Porto (Portugal)
Duração/*Duration*: 2011/10 – 2015/01

166/10 - “Judgements of Moral Wrongdoings and Emotions: A Neuropsychophysiological study” - only abstract available

Investigadores/*Researchers*: Paulo Sousa, João Eduardo Marques-Teixeira, Carlos Eduardo Evangelisti Mauro, Fernando Ricardo Ferreira-Santos
Instituição/*Institution*: Faculdade de Economia e Gestão, Universidade Católica Portuguesa, Centro Regional do Porto (Portugal)
Duração/*Duration*: 2012/01 – 2015/09

167/10 - “Elucidating the molecular mechanisms mediating feeding behavior”

Investigadores/*Researchers*: Carlos Vidal Ribeiro, Maria Teresa Montez, Laura Belmonte, Samantha Herbert
Instituição/*Institution*: Champalimaud Foundation, Lisboa (Portugal)
Duração/*Duration*: 2011/05 – 2014/09

172/10 - “Attitudes sensitivity to context: presence of other and physiological evidences”

Investigadores/*Researchers*: Teresa Maria Morais Garcia-Marques, Ricardo Fonseca, Marília Prada, Alexandre Fernandes
Instituição/*Institution*: Unidade de Investigação em Psicologia Cognitiva, do Desenvolvimento e da Educação (UIPCDE), ISPA - Instituto Universitário, Lisboa (Portugal)
Duração/*Duration*: 2011/05 – 2015/10

176/10 - “Dopaminergic regulation of dietary learning in humans and rodents”

Investigadores/*Researchers*: Albino Jorge Carvalho de Sousa Oliveira Maia, Rui M. Costa
Instituição/*Institution*: Champalimaud Foundation, Lisboa (Portugal)
Duração/*Duration*: 2011/07 – 2014/09

193/10 - “Attachment and exceptional experiences amongst twins reporting “exceptional experiences”

Investigadores/*Researchers*: Göran Brusewitz, Adrian Parker, Lynn Cherkas
Instituição/*Institution*: Greenwich University (UK), Department of Psychology, University of Gothenburg (Sweden), Department of Twin Research and Genetic Epidemiology, King's College, London (UK)
Duração estimada/*Estimated Duration*: 2013/10 – 2016/04

226/10 - “Brain decoding of spontaneous memory processes”

Investigadores/*Researchers*: Pierre Maquet, Christophe Phillips, Jessica Schrouffs, Caroline Kussé
Instituição/*Institution*: Cyclotron Research Centre, University of Liège (Belgium)
Duração/*Duration*: 2011/10 – 2016/01

227/10 - “Evaluation of alterations of consciousness and the model of pragmatic information in a ganzfeld protocol”

Investigadores/*Researchers*: Etzel Cardeña, David Marcusson-Clavertz
Instituição/*Institution*: CERCAP, Dept. of Psychology, Lund University (Sweden)
Duração/*Duration*: 2011/04 – 2015/07

2012

10/12 - “Enhancing Psychokinesis Task Performance Through the Practice of Imagery Strategies: New Psychophysiological Approach (Stage 2)”

Investigadores/*Researchers*: Alejandro Parra, Juan Corbetta
Instituição/*Institution*: Instituto de Psicología Paranormal, Asoc. Civil, Buenos Aires (Argentina)
Duração/*Duration*: 2013/02 – 2015/02



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21/12 - “The depersonalized brain: Psychophysiological correlates of cortical hyperexcitability associated with signs of depersonalization, derealization and dissociation, in non-clinical samples”

Investigador/Researcher: Jason John Braithwaite
Instituição/Institution: Behavioural Brain Sciences Centre, School of Psychology, University of Birmingham (UK)
Duração/Duration: 2013/06 – 2015/09

28/12 - “A Test of Thermodynamic Entropy Effects in Anomalous Cognition”

Investigadores/Researchers: Edwin May, Sonali Bhatt Marwaha
Instituição/Institution: Laboratories for Fundamental Research, Palo Alto, California (USA)
Duração/Duration: 2013/03 – 2016/01

30/12 - “Regularity encoding and deviance detection in the human auditory brainstem” - only abstract available

Investigadores/Researchers: Carles Escera, Katarzina Żarnowiec, Lilla Náfrádi
Instituição/Institution: Institute for Brain, Cognition and Behavior (IR3C), University of Barcelona (Spain)
Duração/Duration: 2013/07 – 2015/06

38/12 - “Testing a Methodological Formula for Consistent Hit Rates: Matching Psi Ability to Task Difficulty”

Investigadores/Researchers: James Houran, Rense Lange
Instituição/Institution: Integrated Knowledge Systems, Inc., Illinois (USA)
Duração/Duration: 2013/02 – 2014/09

52/12 - “The embodied experience of time: modulations of mindfulness meditation”

Investigadores/Researchers: Marc Christoph Wittmann, Karin Meissner, Stefan Schmidt
Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg, Institute of Medical Psychology, University of Munich - LMU (Germany)
Duração/Duration: 2013/05 – 2015/01

53/12 - “Libet revisited - The effects of mindfulness meditation training on voluntary action and on time perception: a controlled study with experienced meditators”

Investigadores/Researchers: Stefan Schmidt, Han-Gue Jo, Marc Christoph Wittmann
Instituição/Institution: Dep. of Psychosomatic Medicine, University Medical Center Freiburg (Germany)
Duração/Duration: 2013/05 – 2015/03

56/12 - “Psychophysical interactions with a single-photon double-slit optical system” - only abstract available

Investigadores/Researchers: Dean Radin, Arnaud Delorme, Leena Michel
Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)
Duração/Duration: 2013/06 – 2015/02

57/12 - “Neurophysiological mechanisms of aging: novel view of old concepts” - only abstract available

Investigadores/Researchers: Maria José de Oliveira Diógenes Nogueira, Alexandre de Mendonça, Antonina Pereira, Bruno Teixeira da Silva, Raquel Dias
Instituição/Institution: Instituto de Medicina Molecular, Lisboa (Portugal)
Duração prevista/Estimated Duration: 2014/03 – 2016/04

63/12 - “Forefeeling guilty knowledge - An innovative approach in presentiment research”

Investigadores/Researchers: Wolfgang Ambach, Alexander Siller
Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health (IGPP), Freiburg (Germany)
Duração/Duration: 2013/03 – 2016/02

64/12 - “Hematological and Psychophysiological Correlates of Anomalous Information Reception in Mediums Perspective” - only abstract available

Investigadores/Researchers: Julie Beischel, Shawn Tassone, Mark Boccuzzi
Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)
Duração/Duration: 2013/05 – 2015/06

66/12 - “Body and soul: A computational neurophysiological and qualitative investigation of Ganzfeld-induced imagery”

Investigadores/Researchers: Alexander Sumich, Daniel Wilson, Nicholas Blagden
Instituição/Institution: Nottingham Trent University (NTU), Division of Psychology (UK)
Duração prevista/Estimated Duration: 2013/04 – 2016/04

72/12 - “The psychophysiology of human attachment and stress”

Investigadores/Researchers: Angela Clow, Lisa Thorn, Andrea Oskis, Nina Smyth
Instituição/Institution: Department of Psychology, University of Westminster, London (UK)
Duração/Duration: 2013/10 – 2015/09

77/12 - “Human motor re-learning – the use of sensor information fusion”

Investigadores/Researchers: Sandra Maria Caldas da Silva Mouta, Miguel Velhote Correia, Carolina Vila-Chã, Cláudia Silva, Mariana Silva, Carla Borges, António Salazar, Dominic Noy
Instituição/Institution: INESC - Porto (Portugal)
Duração/Duration: 2013/06 – 2015/09

83/12 - “The Impact of Future Relevance on Dream Content and Sleep-Dependent Memory Processing” - only abstract available

Investigadores/Researchers: Erin J. Wamsley, Robert Stickgold, Nam Nguyen
Instituição/Institution: Furman University, Greenville (USA)
Duração prevista/Estimated Duration: 2013/05 – 2016/05

84/12 - “Neural bases of time processing: combining neuroimaging techniques and clinical evidence”

Investigadores/Researchers: Patrizia Bisiacchi, Gianna Maria Toffolo, Vincenza Tarantino, Elias Casula, Giovanni Mento, Demis Basso

Instituição/Institution: Dipartimento di Psicologia Generale, Università di Padova (Italy)

Duração prevista/Estimated Duration: 2013/03 – 2016/03

89/12 - “Interaction of medial and lateral temporal lobe in memory expression: insights from patient and fMRI data” - only abstract available

Investigadores/Researchers: Ana Luísa Nunes Raposo, José Frederico Henzler Ferreira Marques, José Guilherme Cortez Pimentel

Instituição/Institution: Faculdade de Psicologia, Universidade de Lisboa (Portugal)

Duração/Duration: 2013/04 – 2016/01

91/12 - “Psychophysiological studies into task-set inertia in switching paradigms” - only abstract available

Investigadores/Researchers: Lisa Evans, Edward Wilding

Instituição/Institution: School of Psychology, Cardiff

University (UK)

Duração/Duration: 2013/04 – 2014/12

92/12 - “Dissociating familiarity and conceptual priming with event-related potentials” - only abstract available

Investigadores/Researchers: Edward Wilding, Lisa Evans

Instituição/Institution: School of Psychology, Cardiff

University (UK)

Duração/Duration: 2013/04 – 2015/01

103/12 - “Psychological and psychophysiological factors in sexual desire and behaviour”

Investigadores/Researchers: Rui Miguel dos Santos

Amaro da Costa, Tânia F. Oliveira

Instituição/Institution: ISPA, CRL, Lisboa (Portugal)

Duração/Duration: 2013/04 – 2015/06

108/12 - “Clinical parapsychology: Counselling experiences of clients who report anomalous experiences and the training needs of therapists”

Investigador/Researcher: Elizabeth Roxburgh

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), Division of Psychology, School of Social Sciences, The University of

Northampton (UK)

Duração/Duration: 2013/07 – 2015/10

112/12 - “Retinotopic reorganization of the auditory cortex of congenitally deaf individuals due to neuroplasticity”

Investigadores/Researchers: Jorge Manuel Castelo Branco de Albuquerque Almeida, Bradford Zack Mahon, Yanchao Bi, Óscar Filipe Coelho Neves Gonçalves

Instituição/Institution: Faculdade de Psicologia e Ciências da Educação, Universidade de Coimbra (Portugal)

Duração/Duration: 2013/05 – 2015/11

119/12 - “Dynamic cortical and nucleus accumbens networks in humans: combining intracranial and MEG recordings”

Investigadores/Researchers: Bryan Strange, Javier J.

Gonzalez-Rosa, Juan A. Barcia, Stephan Moratti, Raffael Kaplan, Marijn Kroe

Instituição/Institution: Laboratory for Clinical Neuroscience, Centre for Biomedical Technology (CTB),

Technology University of Madrid (UPM) and Fundación para la Investigación Biomédica del Hospital Clínico San

Carlos - Universidad Complutense de Madrid. Instituto de Investigación Sanitaria IdISSC (Spain)

Duração prevista/Estimated Duration: 2013/06 – 2016/06

122/12 - “EEG Analysis of Auditory and Visual Stimuli in Normal Controls”

Investigadores/Researchers: William Bunney, Blynn Bunney, James Fallon, Julie Patterson, Steven G. Potkin,

Richard Stein, Joseph Wu

Instituição/Institution: Department of Psychiatry & Human Behavior, The Regents of the University of California,

Irvine (USA)

Duração prevista/Estimated Duration: 2013/05 – 2016/07

124/12 - “EEG correlates of mental entanglement at distance” - only abstract available

Investigadores/Researchers: Patrizio Tressoldi, Francesco

Salvadori, Patrizio Caini, Simone Melloni, Giorgio

Gagliardi, Mirko de Vita, Alessandro Ferrini

Instituição/Institution: Dipartimento di Psicologia Generale,

Università di Padova and Laboratorio Interdisciplinare di

Ricerca Biopsicocibernetica, Bologna (Italy)

Duração prevista/Estimated Duration: 2013/03 – 2016/03

126/12 - “Implicit and explicit processing of emotion in healthy adult ageing” - only abstract available

Investigador/Researcher: Sarah MacPherson

Instituição/Institution: Human Cognitive Neuroscience

Unit, Department of Psychology, PPLS, The University of

Edinburgh (UK)

Duração/Duration: 2013/08 – 2014/10

132/12 - “A direct test of the binding by synchrony hypothesis in humans: the neural correlates of coherent object perception”

Investigadores/Researchers: Miguel Castelo-Branco,

Maria Ribeiro, João Duarte, Gabriel Costa

Instituição/Institution: IBILI, Faculdade de Medicina,

Universidade de Coimbra (Portugal)

Duração/Duration: 2013/11 – 2016/01

133/12 - “The role of the core and extended face networks in visual perception and high level social cognition”

Investigadores/Researchers: Miguel Castelo-Branco,

Marco Simões, Carlos Amaral, Gregor Philippiak, José

Rebola, João Castelhana

Instituição/Institution: IBILI, Faculdade de Medicina,

Universidade de Coimbra (Portugal)

Duração/Duration: 2013/11 – 2016/01



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167/12 - “Impact of body image related variables on the psychophysiological indicators of human sexual response: comparative study with a clinical and non clinical sample”

Investigadores/*Researchers*: Maria João Alvarez Martins, Pedro Nobre, Ellen Laan, Sandra Byers, Lisa Vicente, Nuno Monteiro Pereira, Patrícia Pascoal
Instituição/*Institution*: Faculdade de Psicologia da Universidade Lisboa and SEXLAB (Laboratórios de Investigação em Sexualidade Humana), Faculdade de Psicologia e Ciências da Educação da Universidade do Porto (Portugal)
Duração prevista/*Estimated Duration*: 2013/03 – 2016/04

191/12 - “Defining the functional architecture of motion vision sensitive visual-motor circuits”

Investigadores/*Researchers*: Eugenia Chiappe, Tomás Cruz
Instituição/*Institution*: Fundação Champalimaud, Lisboa (Portugal)
Duração prevista/*Estimated Duration*: 2013/08 – 2016/07

198/12 - “Enhancing hypnotic suggestibility with transcranial direct current stimulation”

Investigador/*Researcher*: Devin Blair Terhune
Instituição/*Institution*: The Chancellor, Masters and Scholars of the University of Oxford, Experimental Psychology (UK)
Duração/*Duration*: 2014/03 – 2015/02

199/12 - “Brain-to-Brain Communication Enabled with Intracortical Microstimulation”

Investigadores/*Researchers*: Miguel Angelo Laporta Nicolelis, Miguel Santos Pais Vieira
Instituição/*Institution*: Duke University, Durham (USA)
Duração/*Duration*: 2013/04 – 2015/10

209/12 - “Predicting your decision while you make up your mind – an intracranial human study of the neural underpinning of decision making” - only abstract available

Investigadores/*Researchers*: Uri Muz Maoz, Liad Mudrik, Ian Ross, Adam Mamelak, Ralph Adolphs
Instituição/*Institution*: California Institute of Technology, Pasadena and Cedars-Sinai Medical Center, Los Angeles (USA)
Duração/*Duration*: 2013/05 – 2015/02

217/12 - “Temporal modulation of the subventricular zone neural stem cell niche by choroid plexus-cerebrospinal fluid derived factors”

Investigadores/*Researchers*: João Carlos Cruz de Sousa, Fernanda Marques, Joana Palha, Ana Luísa Falcão, Ashley Novais
Instituição/*Institution*: ICVS/3B's - Laboratório Associado (ICVS/3B's), Universidade do Minho, Braga (Portugal)
Duração prevista/*Estimated Duration*: 2013/08 – 2016/04

220/12 - “Consciousness Disconnects During Sleep” - only abstract available

Investigador/*Researcher*: Giovanni Piantoni
Instituição/*Institution*: Cortical Physiology Lab, Massachusetts General Hospital, Harvard Medical School (USA) and Netherlands Institute for Neuroscience, Amsterdam (The Netherlands)
Duração prevista/*Estimated Duration*: 2013/09 – 2016/04

222/12 - “EEG functional connectivity in post-hypnotic amnesia”

Investigadores/*Researchers*: Marios Kittenis, Graham Jamieson
Instituição/*Institution*: Koestler Parapsychology Unit, The University of Edinburgh (UK) and Neuropsychology Lab, School of Behavioural, Cognitive, and Social Sciences, The University of New England, Armindale (Australia)
Duração prevista/*Estimated Duration*: 2013/06 – 2016/04

224/12 - “The magic of perception: Investigating misdirection and change blindness in magic using the novel combination of gaze behaviour and ERPs” - only abstract available

Investigadores/*Researchers*: Tim J. Smith, Rebecca Nako
Instituição/*Institution*: Dynamic Visual Cognition (DVC) Lab, Dept. of Psychology, Birkbeck, University of London (UK)
Duração prevista/*Estimated Duration*: 2013/04 – 2016/03

225/12 - “Roles of the reward system in sleep, dreaming, and the consolidation of emotional memories” - only abstract available

Investigadores/*Researchers*: Sophie Schwartz, Lampros Perogamvros, Kristoffer Aberg, Virginie Sterpenich
Instituição/*Institution*: Geneva Neuroscience Center, University of Geneva (Switzerland)
Duração/*Duration*: 2013/10 – 2016/02

227/12 - “System mechanisms of attention: toward the nature of hypnotizability”

Investigadores/*Researchers*: Zinaida I. Storozheva, A. V. Kirenskaya, V. Y. Novototsky-Vlasov, A. N. Chistyakov, V. V. Myamlin, S. V. Solntseva
Instituição/*Institution*: P. K. Anokhin Institute of Normal Physiology and Serbsky National Research Centre for Social and Forensic Psychiatry, Moscow (Russia)
Duração prevista/*Estimated Duration*: 2013/04 – 2016/04

233/12 - “The Study of Experimenter Effects in the Replication of Psi Experiments: A Global Initiative”

Investigadores/*Researchers*: Marilyn Schlitz, Daryl Bem, Arnaud Delorme
Instituição/*Institution*: Institute of Noetic Sciences, Petaluma (USA)
Duração/*Duration*: 2013/07 – 2015/04

234/12 - “Visual categorization of images of live and deceased individuals”

Investigadores/*Researchers*: Arnaud Delorme, Dean Radin
Instituição/*Institution*: Centre de Recherche Cerveau et Cognition, Toulouse (France) and Institute of Noetic Sciences, Petaluma (USA)
Duração/*Duration*: 2014/02 – 2015/06

248/12 - “Using hypnosis to distinguish between cognitive and metacognitive conscious experience”

Investigadores/*Researchers*: Pedro Alexandre Magalhães de Saldanha da Gama, Axel Cleeremans, Zoltan Dienes, Amir Raz

Instituição/*Institution*: Université Libre de Bruxelles (Belgium)

Duração/*Duration*: 2013/11 – 2015/05

252/12 - “Sleep state misperception mispercieved”

Investigadores/*Researchers*: Eus J. W. Van Someren, J. Ramautar

Instituição/*Institution*: Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam (The Netherlands)

Duração prevista/*Estimated Duration*: 2014/06 – 2016/04

256/12 - “Contemplative Development Mapping Project”

Investigadores/*Researchers*: Willoughby Britton, Catherine Kerr, Harold Roth, Jared Lindahl, Jake Davis, Chris Kaplan, Nathan Fisher

Instituição/*Institution*: The Clinical and Affective Neuroscience Laboratory, Brown University and Department of Psychiatry and Human Behavior, Brown University Medical School, Providence (USA)

Duração prevista/*Estimated Duration*: 2013/07 – 2017/04

270/12 - “Synchronicity and Psi: A Controlled Comparison”

Investigadores/*Researchers*: John Palmer, Nick Edington
Instituição/*Institution*: Rhine Research Center, Durham (USA)

Duração/*Duration*: 2013/03 – 2015/01

272/12 - “Exploring the interactions between paranormal belief and disbelief and subjective experiences with the Shakti helmet”

Investigadores/*Researchers*: Christine Simmonds-Moore, Don Rice, Ron Hopkins, Richard LaFleur, Chase O’Gwin
Instituição/*Institution*: Psychology Department, University of West Georgia, Carrollton (USA)

Duração prevista/*Estimated Duration*: 2013/09 – 2016/04

2014

282/14 - “The Mindful Eye: Smooth Pursuit and Saccadic Eye Movements in Meditators and Non-meditators”

Investigadores/*Researchers*: Veena Kumari, Elena Antonova

Instituição/*Institution*: Institute of Psychiatry, King’s College London (UK)

Duração prevista/*Estimated Duration*: 2015/04 – 2016/08



AQUÉM E ALÉM DO CÉREBRO

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Resumos dos projetos em curso dos bolsеiros da Fundação Bial disponíveis em www.fundacaobial.com

Abstracts of in-course projects of the Bial Foundation Fellows available at www.fundacaobial.com

Should you need further information on any of these projects, please contact the Secretariat and we will be glad to introduce you to the researcher attending the symposium

2010

128/10 - "Extending the spiritual healing paradigm to explore distant mental interaction effects with Wiccan healers"

Investigadores/Researchers: Chris Roe, Charmaine Marie Sonnex

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), University of Northampton, Psychology Division, Northampton (UK)

Duração prevista/Estimated duration: 2014/10 – 2016/09

2012

51/12 - "The interpretation and evaluation of meaningful coincidences suggestive of psi communication in everyday life"

Investigadores/Researchers: Robin Wooffitt, Germaine Gunther

Instituição/Institution: Anomalous Experiences Research Unit, Dep. of Sociology, University of York (UK)

Duração prevista/Estimated duration: 2013/09 – 2016/06

87/12 - "Neurobiological correlates of empathy in couples: A study of central and peripheral measures"

Investigadores/Researchers: Joana Fernandes Pereira Coutinho, Cledna Patricia de Oliveira Silva, Jean Decety, Kristin Perrone McGovern, Óscar Filipe Coelho Neves Gonçalves, Vânia Andrea Sousa Gonçalves Moreira de Lima

Instituição/Institution: Centro de Investigação em Psicologia, Escola de Psicologia, Universidade do Minho, Braga (Portugal)

Duração prevista/Estimated duration: 2013/05 – 2017/03

130/12 - "Neural mechanisms of cognitive bias"

Investigadores/Researchers: Rui Filipe Nunes Pais de Oliveira, Ana Félix, Sara Cardoso

Instituição/Institution: ISPA, CRL, Lisbon and Instituto Gulbenkian de Ciência, Oeiras (Portugal)

Duração prevista/Estimated duration: 2013/09 – 2016/09

157/12 - "Contributions of parent-infant psychophysiology during dyadic interactions to child development"

Investigadores/Researchers: Raquel Alexandra Gonçalves Costa, Iva Tendais, Ana Conde, Catarina Tojal

Instituição/Institution: ISLA Campus Lisboa, Laureate International Universities, Lisboa (Portugal)

Duração prevista/Estimated duration: 2013/10 – 2016/09

178/12 - "How collaboration in psychotherapy becomes therapeutic: a study of interactive and psychophysiological processes in good and poor outcome cases"

Investigadores/Researchers: Eugénia Maria Ribeiro Pereira, Adriana Sampaio, Cledna Patricia Silva, António P. Ribeiro, Adam O. Horvath, William B. Stiles, Inês Sousa, Joana Mourão, Dulce Pinto, Zita Sousa

Instituição/Institution: Centro de Investigação em Psicologia (CIPsi/UM), Escola de Psicologia, Universidade do Minho, Braga (Portugal)

Duração prevista/Estimated duration: 2013/06 – 2016/06

185/12 - "Circuit mechanisms of spatial attention in the zebrafish midbrain"

Investigadores/Researchers: Michael Brian Orger, Sabine L. Renninger

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração prevista/Estimated duration: 2013/06 – 2016/06

190/12 - "Interfacing Technology with the Brain: Novel materials for implantable neural devices"

Investigadores/Researchers: Adam Kampff, Elvira Fortunato, Pedro Barquinha, Joana Neto, Joana Nogueira

Instituição/Institution: Fundação Champalimaud and CENIMAT - Materials Research Center, Lisboa (Portugal)

Duração prevista/Estimated duration: 2013/06 – 2016/06

192/12 - "Effects of Conditional Foxp2 Deletion on Motor-Sequence Learning"

Investigador/Researcher: Catherine Ann French

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração prevista/Estimated duration: 2013/06 – 2016/06

203/12 - "Using Multisensory Illusions to Investigate Medically Unexplained Symptoms"

Investigador/Researcher: Roger Newport

Instituição/Institution: School of Psychology, University of Nottingham (UK)

Duração prevista/Estimated duration: 2013/10 – 2016/10

253/12 – “REM-sleep, the regulation of self-conscious emotion and hyperarousal in psychophysiological insomnia”

Investigadores/*Researchers*: Lucia Talamini, Ekaterini Georgopoulou, Eus Van Someren
Instituição/*Institution*: University of Amsterdam, Psychology, Dept. Brain and Cognition (The Netherlands) and Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam (The Netherlands)
Duração prevista/*Estimated duration*: 2015/11 – 2016/08

255/12 - “Telepathic Communication Wave Function Collapse”

Investigadores/*Researchers*: Karla Galdamez, Wolfgang Baer, Michael Ibison
Instituição/*Institution*: Nascent Systems Inc., Carmel Valley, CA (USA); Institute for Advanced Studies at Austin, Texas (USA)
Duração prevista/*Estimated duration*: 2013/07 – 2016/07

262/12 - “The neural basis of Magical Ideation: a multimodal imaging study in twin subjects”

Investigadores/*Researchers*: Paolo Brambilla, Gioia Negri, Sara Piccin, Giuseppe Cabras, Corrado Fagnani
Instituição/*Institution*: Università delgi Studi di Milano and Unit of Epidemiology of the Italian Institute of Health, Rome (Italy)
Duração prevista/*Estimated duration*: 2014/01 – 2016/08

2014

51/14 - “The Dissociated Self: An Investigation of Emotional Responses to a new Body-threat Task in those Predisposed to Anomalous Body Experiences, Dissociation and Disembodiment”

Investigador/*Researcher*: Jason John Braithwaite
Instituição/*Institution*: School of Psychology, University of Birmingham (UK)
Duração prevista/*Estimated duration*: 2015/09 – 2016/09

83/14 - “Electrophysiological correlates of the incorporation of recent memory sources into REM and non-REM dreams and of levels of insight following REM and non-REM dream interpretation”

Investigadores/*Researchers*: Mark Blagrove, Chris Edwards, Jean-Baptiste Eichenlaub, Perrine Ruby
Instituição/*Institution*: College of Human and Health Sciences, Department of Psychology, Swansea University (UK)
Duração prevista/*Estimated duration*: 2015/03 – 2016/09

85/14 - “The Clinical Gut: Examining the cognitive processes and neural underpinnings of judgments, feelings of rightness and its impact on information seeking”

Investigadores/*Researchers*: Ana Sofia Bilreiro Jacinto Braga, Anne Krendl, Cara Charissa Lewis, Cilia Witteman, Mário Ferreira
Instituição/*Institution*: Faculdade de Psicologia da Universidade de Lisboa (Portugal); Department of Psychological and Brain Sciences - Indiana University Bloomington (USA)
Duração prevista/*Estimated duration*: 2015/05 – 2018/05

118/14 - “Recursive consciousness training: Using neurofeedback to induce altered states”

Investigadores/*Researchers*: Amir Raz, Niels Birbaumer, Robert T Thibault
Instituição/*Institution*: Montreal Neurological Institute, McGill University (Canada); Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen (Germany)
Duração prevista/*Estimated duration*: 2015/09 – 2017/01

122/14 - “Internal and External World in Parietal Cortex”

Investigador/*Researcher*: Paolo Capotosto
Instituição/*Institution*: Department of Neuroscience, Imaging and Clinical Science, University “G. D’Annunzio”, Chieti (Italy)
Duração prevista/*Estimated duration*: 2015/02 – 2016/07

128/14 - “Microneurography as a psychophysiological tool for Consciousness Science”

Investigadores/*Researchers*: Hugo Dyfrig Critchley, Yrsa Sverrisdottir
Instituição/*Institution*: Brighton and Sussex Medical School, University of Sussex (UK); Department of Physiology, Anatomy and Genetics, University of Oxford (UK)
Duração prevista/*Estimated duration*: 2015/09 – 2017/07

132/14 - “How memories form: Does consistency in neural activity promote successful learning?”

Investigadores/*Researchers*: Louis Renoult, Fraser Smith
Instituição/*Institution*: School of Psychology, University of East Anglia, Norwich (UK)
Duração prevista/*Estimated duration*: 2015/01 – 2017/12

143/14 - “From audio-visual perception to action: the processing of spatio-temporal components”

Investigadores/*Researchers*: Sandra Mouta, Joana Vieira
Instituição/*Institution*: Association / ZGDV – Centro de Computação Gráfica, Guimarães (Portugal)
Duração prevista/*Estimated duration*: 2015/10 – 2017/10



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150/14 - “Measuring the Self: behavioural and neural correlates of bodily awareness”

Investigadores/Researchers: Emmanuele Tidoni, Gaetano Tieri, Matteo Candidi, Salvatore Maria Aglioti
Instituição/Institution: Social Cognitive Neuroscience Laboratory, Department of Psychology, University of Rome “La Sapienza” (Italy)
Duração prevista/Estimated duration: 2015/02 – 2017/01

163/14 - “Sacred Values underlying Conflict Proneness: A neuroimaging study of religious and nationalist radicals”

Investigadores/Researchers: Adolf Tobena, Clara Petrus, Joseph Hilferty, Oscar Vilarroya, Scott Atran
Instituição/Institution: Department of Psychiatry and Forensic Medicine UAB, Bellaterra Campus (Spain)
Duração prevista/Estimated duration: 2015/02 – 2018/01

206/14 - “Examination of brain coordination dynamics underlying hypnosis and volitional acts using intracranial electroencephalography”

Investigadores/Researchers: Jose Luis Perez Velazquez, Navinder Persaud, Taufik A. Valiante
Instituição/Institution: Hospital for Sick Children, Neurology, University of Toronto (Canada); Toronto Western Hospital (Canada)
Duração prevista/Estimated duration: 2015/05 – 2017/05

233/14 - “Training anomalous cognition in a motor task with subliminal auditory feedback”

Investigador/Researcher: John Albert Palmer
Instituição/Institution: Rhine Research Center, Durham, NC (USA)
Duração prevista/Estimated duration: 2015/04 – 2016/09

242/14 - “The role of affective dimensions in the perception of facial expressions of emotion: Neuropsychophysiological, developmental, and neuroimaging examination of an affective predictive coding framework”

Investigadores/Researchers: Fernando Ricardo Ferreira Santos, Eva Inês Costa Martins, Francisco Sá Ferreira Loureiro Pipa, Manuel Fernando Santos Barbosa, Michelle de Haan, Pedro Manuel Rocha Almeida, Tiago de Oliveira Paiva, Torsten Baldeweg
Instituição/Institution: Laboratory of Neuropsychophysiology - Faculty of Psychology and Educational Sciences of the University of Porto (Portugal)
Duração prevista/Estimated duration: 2015/10 – 2018/10

244/14 - “Induced brain plasticity after perinatal stroke: structural and functional connectivity”

Investigadores/Researchers: Antoni Rodriguez-Fornells, Alfredo García-Alix, Carme Fons, Clément François, Jordi Muchart, Laura Bosch, Mónica Rebollo, Pablo Ripollés
Instituição/Institution: Department of Basic Psychology, University of Barcelona (Spain); Hospital Sant Joan de Deu, Esplugues de Llobregat (Spain)
Duração prevista/Estimated duration: 2015/02 – 2017/02

246/14 - “Anomalous/Paranormal Experiences reported by nurses themselves and in relation with their patients in Hospitals: Examining psychological, personality and phenomenological variables”

Investigador/Researcher: Alejandro Enrique Parra
Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)
Duração prevista/Estimated duration: 2015/03 – 2017/02

253/14 - “The impact of lipid signaling modulation in cognition”

Investigadores/Researchers: Tiago Gil Rodrigues Oliveira, Isabel Maria Sousa Castanho, Neide Marina Vieira Pereira, Rita Catarina Ribeiro da Silva, Vítor Manuel da Silva Pinto
Instituição/Institution: Life and Health Sciences Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal)
Duração prevista/Estimated duration: 2015/05 – 2017/04

269/14 - “Vestibular updating and the continuity of awareness”

Investigadores/Researchers: Patrick Haggard, Elisa Raffaella Ferre, Maria Gallagher
Instituição/Institution: Institute of Cognitive Neuroscience, University College London (UK)
Duração prevista/Estimated duration: 2015/10 – 2016/12

277/14 - “Cortical excitability and connectivity in the lifespan: a neurophysiological study”

Investigadores/Researchers: Anna Fertoni, Cornelia Pirulli
Instituição/Institution: IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia (Italy)
Duração prevista/Estimated duration: 2015/09 – 2017/09

287/14 - “Cryptochrome (CRY) and Intention”

Investigadores/Researchers: Yung-Jong Shiah, Hsu-Liang Hsieh, Dean Radin
Instituição/Institution: Graduate Institute of Counseling Psychology and Rehabilitation Counseling of the National Kaohsiung Normal University, Kaohsiung (Taiwan); Photobiology Lab, Taipei (Taiwan)
Duração prevista/Estimated duration: 2015/09 – 2017/01

299/14 - “Neurofeedback-based adaptive audiovisual tutorial for enhancing multi-modal learning”

Investigadores/Researchers: Rainer Wilhelm Goebel, Gal Raz, Talma Hendler
Instituição/Institution: Maastricht Brain Imaging Centre, Maastricht University (The Netherlands); The Medical Research Infrastructure and health services fund at the Tel Aviv Medical center (Israel)
Duração prevista/Estimated duration: 2015/12 – 2017/09

304/14 - “The impact of music training on reading and mathematical abilities of normal and reading disabled children: a behavioral and neuroimaging longitudinal study”

Investigadores/Researchers: Maria de São Luís Vasconcelos da Fonseca e Castro Schöner, Christian Gaser, Daniela da Costa Coimbra, Marta Sofia Pinto Martins
Instituição/Institution: Faculty of Psychology and Educational Sciences at University of Porto, FPCEUP / Centre for Psychology at University of Porto (Portugal); Structural Brain Mapping Group/ Department of Psychiatry - Jena University Hospital (Germany)
Duração prevista/Estimated duration: 2015/10 – 2018/10

308/14 - “A study of heterogeneity in parapsychological databases”

Investigador/Researcher: Peter Amalric Bancel
Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA); Institut Métapsychique International, Paris (France)
Duração prevista/Estimated duration: 2015/06 – 2016/11

318/14 - “Neural Correlates of Tracking Changing Positions of Objects”

Investigadores/Researchers: Christina Jayne Howard, Matthew K Belmonte
Instituição/Institution: Division of Psychology, Nottingham Trent University (UK)
Duração prevista/Estimated duration: 2015/02 – 2016/06

320/14 - “Affiliative Touch & Emotion Regulation”

Investigadores/Researchers: Francis McGlone, Peter Cannon, Ralph Pawling, Susannah Claire Walker
Instituição/Institution: School of Natural Sciences and Psychology, Liverpool John Moores University (UK); Massey University, Albany (New Zealand)
Duração prevista/Estimated duration: 2015/10 – 2016/09

339/14 - “Neural mechanisms of social cognition in zebrafish”

Investigador/Researcher: Ana Rita Silva Martins Nunes
Instituição/Institution: Instituto Gulbenkian de Ciencia, Oeiras (Portugal)
Duração prevista/Estimated duration: 2015/05 – 2018/05

340/14 - “A Question of Belief: An Analysis of Item Content in Paranormal Belief Questionnaires”

Investigadores/Researchers: Lance Storm, Ken Drinkwater, Tony Jinks
Instituição/Institution: Brain and Cognition Centre, School of Psychology, University of Adelaide (Australia); Department of Psychology, Faculty of Health, Psychology and Social Care, Manchester (UK)
Duração prevista/Estimated duration: 2015/04 – 2016/10

343/14 - “Proteotoxic insults and synaptic dysfunction in the aging brain”

Investigadores/Researchers: Cláudio Emanuel Moreira Gomes, Andreas Martin Grabrucker, Joana Margarida Lopes da Silva Cristóvão, Sónia Cristina Alves Dickson Leal Solano
Instituição/Institution: Faculdade de Ciências da Universidade de Lisboa - FC/UL (Portugal); Neurocenter of Ulm University (Germany)
Duração prevista/Estimated duration: 2015/06 – 2018/05

344/14 - “An integrative approach to the neural basis of hypnotic suggestibility”

Investigador/Researcher: Devin Blair Terhune
Instituição/Institution: Goldsmiths, University of London (UK)
Duração prevista/Estimated duration: 2015/04 – 2016/07

355/14 - “Cognitive and personality differences in supernatural belief”

Investigadores/Researchers: Ian Scott Baker, David Sheffield, Malcolm Schofield, Paul Staples
Instituição/Institution: College of Life and Natural Sciences, University of Derby (UK)
Duração prevista/Estimated duration: 2015/06 – 2017/06

366/14 - “Changes in subjective time as indication of increased mindfulness after meditation”

Investigador/Researcher: Marc Christoph Wittmann
Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg (Germany); Department of Psychosomatic Medicine, University Medical Center Freiburg (Germany)
Duração prevista/Estimated duration: 2015/04 – 2017/04

372/14 - “Development and implementation of a comprehensive survey of secular American mediums”

Investigadores/Researchers: Julie Beischel, Chad Mosher, Mark Boccuzzi
Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)
Duração prevista/Estimated duration: 2015/07 – 2017/07

380/14 - “Using Neural Stimulation to Modulate Paranormal Beliefs”

Investigadores/Researchers: Miguel Farias, Ute Kreplin
Instituição/Institution: Centre for Research in Psychology, Behaviour and Achievement, Coventry University (UK)
Duração prevista/Estimated duration: 2015/12 – 2017/03

385/14 - “Affective and cognitive modulation of pain by using real-time fMRI neurofeedback”

Investigadores/Researchers: Pedro Jose Montoya Jimenez, Beatriz Rey Solaz, Inmaculada Riquelme, Miguel Angel Munoz Garcia, Niels Birbaumer
Instituição/Institution: Research Institute on Health Sciences, University of Balearic Islands, Palma (Spain)
Duração prevista/Estimated duration: 2015/03 – 2018/03



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413/14 - “The role of dopamine in behavioral exploration and action selection”

Investigador/*Researcher*: Aaron Christopher Koralek
Instituição/*Institution*: Champalimaud Neuroscience Programme, Lisboa (Portugal)
Duração prevista/*Estimated duration*: 2015/03 – 2018/03

427/14 - “Gliogenesis control of brain neuroplasticity, neurophysiology and cognitive function”

Investigadores/*Researchers*: Luísa Alexandra Meireles Pinto, Ana Rita Machado dos Santos, António Maria Restolho Mateus Pinheiro, Cristina Joana Moreira Marques, Joana Sofia da Silva Correia, João Filipe Pedreira de Oliveira, João Miguel Bessa Peixoto, Nuno Dinis Alves, Patrícia Carvalho Patrício, Vítor Manuel da Silva Pinto
Instituição/*Institution*: Life and Health Sciences Research Institute - ICVS/3B's- Government Associate Laboratory, Universidade do Minho, Braga (Portugal); Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra (Portugal)
Duração prevista/*Estimated duration*: 2015/09 – 2018/08

534/14 - “Exploring Unconscious Knowledge: From Pendulums to Parapsychology”

Investigadores/*Researchers*: Jeremy Olson, Amir Raz, Mathieu Landry
Instituição/*Institution*: Raz Cognitive Neuroscience Lab, McGill University, Montreal (Canada); Montreal Neurological Institute (Canada)
Duração prevista/*Estimated duration*: 2015/08 – 2016/07

OTHER

“The Aging Social Brain - Neural and behavioral age-related changes in social cognition and decision-making”

Investigadores/*Researchers*: João Eduardo Marques Teixeira, Manuel Fernando Santos Barbosa, Fernando Ricardo Ferreira Santos, Pedro Manuel Rocha Almeida, Hugo Daniel Leão Sousa
Instituição/*Institution*: Faculdade de Psicologia e de Ciências da Educação, Universidade do Porto (Portugal)
Duração prevista/*Estimated duration*: 2014/11 – 2016/11

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F U N D A Ç Ã O

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