

03.04 | Wednesday

- 17:00-18:00 Registration
- 18:00-18:30 Opening Session (in Portuguese)
- 18:30-19:15 Opening Conference
Chairman | **Axel Cleeremans**
- Creativity: Inside and outside the boundaries of the Mind
Todd Lubart

04.04 | Thursday

1st session - The foundations of creativity

- Moderator | **Caroline Watt**
- 09:00-09:15 Opening remarks
Caroline Watt
- 09:15-09:45 The movement, and musicality of mental time travel
Nicola Clayton and Mark Baldwin
- 09:50-10:20 Connections, sensitivity and tangible representations: Unpacking some correlates of creativity and exceptional experiences
Christine Simmonds-Moore
- 10:25-10:55 Breaking barriers: Emerging topics in creativity and insight research
Amory Danek
- 11:00-11:30 Coffee, posters session and contacts with faculty
- 11:30-12:15 Keynote lecture
Myths and truths of the creative mind
Anna Abraham
- 12:30-13:00 Morning Discussion
- 13:00-14:30 Lunch
- 14:30-16:00 Oral poster presentations - Grant holders
Moderator | **Mário Simões**
- 16:00-16:30 Coffee, posters session and contacts with faculty
- 16:30-17:30 Oral poster presentations - Grant holders
Cont.

03.04

04.04

05.04 | Friday

2nd session - The expressions of creativity

- Moderator | **Rainer Goebel**
- 09:00-09:15 Opening remarks
Rainer Goebel
- 09:15-09:45 Creative education: A systems perspective
Michael Hanchett Hanson
- 09:50-10:20 Using adversarial collaboration to harness collective intelligence and boost creativity in science
Lucia Melloni
- 10:25-10:55 Psi and the creative imagination
Marilyn Schlitz
- 11:00-11:30 Coffee, posters session and contacts with faculty
- 11:30-12:15 Keynote lecture
The improvising brain: In search of meaning making and thriving
Morten Kringelbach
- 12:30-13:00 Morning Discussion
- 13:00-14:30 Lunch
- 14:30-16:30 Parallel Workshops (W)
- W 1** - Room Medicoteca; without translation - [bring your laptop](#)
Creativity in art and science AI - artificial creativity and art
Moderator | **Miguel Castelo-Branco**
Invited presenters | **Penousal Machado and Tiago Martins**
- W 2** - Room Conferências; without translation
Choreography and embodiment: Creating with and without wings and tentacles to develop movements with and without words
Moderator | **Rui Costa**
Invited presenters | **Mark Baldwin and Nicola Clayton**
- W 3** - Room Braga; without translation
Synesthetic creativity: A hands-on experience using sound and drawing
Moderator | **Etzel Cardeña**
Invited presenter | **Christine Simmonds-Moore**
- W 4** - Auditorium; with simultaneous translation - [bring your mobile](#)
The sound of creativity: A sensorial pathway from silence to music
Moderator | **Nuno Sousa**
Invited presenter | **Pedro Abrunhosa**
- 17:00-18:00 Get-together Cheese & Wine

05.04

06.04 | Saturday

3rd session - The edges of creativity

- Moderator | **Stefan Schmidt**
- 09:00-09:15 Opening remarks
Stefan Schmidt
- 09:15-09:45 Neurocinema and the invention of reality
Sergio Neuenschwander
- 09:50-10:20 Music and psychedelic drugs as tools to explore creativity
Frederick Barrett
- 10:25-10:55 The creativity code
Marcus du Sautoy
- 11:00-11:30 Coffee, posters session and contacts with faculty
- 11:30-12:15 Keynote lecture
Creativity in context: The big picture
Edward Kelly
- 12:30-13:00 Morning Discussion
- 13:00-14:30 Lunch
- 14:30-16:30 Final Roundtable
The process of creativity
Moderator | **Axel Cleeremans**
Participants | **Pedro Abrunhosa, Nicola Clayton and Mark Baldwin, Marilyn Schlitz, Sergio Neuenschwander**

Registration Fee

The 14th Symposium will be organized only for in-person audience.

€200

€80 - for university students under the age of 25 and PhD students (please enclose copy of your student card and/or university/supervisor declaration).

These amounts include access to all Symposium sessions, coffee breaks and certificate of attendance. It does not include meals. Limited number of registrations.

Online registration - www.bialfoundation.com

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PROGRAM

06.04

BEHIND AND BEYOND THE BRAIN

Aquém e Além do Cérebro Creativity

Casa do Médico - Porto
April 3 to 6, 2024

Organizing Committee:

President

AXEL CLEEREMANS (Brussels)

ETZEL CARDEÑA (Lund)

MIGUEL CASTELO-BRANCO (Coimbra)

RUI COSTA (Seattle, WA)

RAINER GOEBEL (Maastricht)

STEFAN SCHMIDT (Freiburg)

CAROLINE WATT (Edinburgh)

Symposium's Venue

Casa do Médico • Rua Delfim Maia, 405 • 4200-256 Porto
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Secretariat

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Program, conference and poster abstracts

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Anna Abraham | Psychologist and neuroscientist, E. Paul Torrance Professor in the Mary Frances College of Education, University of Georgia, USA. Director of the Torrance Center for Creativity and Talent Development. Author of "The Neuroscience of Creativity" and Editor of "The Cambridge Handbook of the Imagination". Scientific interests: interdisciplinary examination of fundamentally human capacities such as creative thinking and other core aspects of the imagination including the reality-fiction distinction, self and social cognition, mental time travel, mental state reasoning, and aesthetic experience.

Pedro Abrunhosa | At the age of 16 he studied Analysis, Composition and History of Music at Porto School of Music, and, later, at the Conservatory, Porto, Portugal. He got into music through the erudite path; from the most complex to the simplest, towards the purification of language. When he got to jazz, he was a jazz scholar and founded the Porto Jazz School. When he arrived at rock music, he had a backpack full of history and rigor. In 1994 he released his first album "Viagens" and he is now finishing his ninth. In his multi-platinum albums, he reveals his powerful writing, leaving songs that join so many other hymns, legends, adages. With thousands of concerts and sold-out venues, he combines the stage with lectures and discussions in the business and academic world.

Mark Baldwin | Multi-award-winning choreographer, artistic director and visual artist. Academic Visitor, Department of Psychology, University of Cambridge, UK, where he works with Nicola Clayton. Scientific and artistic interests: thinking with and without words; choreography inspired by his background as a performer both as a dancer/choreographer and as Artistic Director of Britain's National Dance Company Rambert 2002-18. Made an Officer of the British Empire in 2015 for his services to dance.

Frederick Barrett | Associate Professor of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine; Faculty of Neuroscience, and Psychological and Brain Sciences, Johns Hopkins University; Director of the Johns Hopkins Center for Psychedelic and Consciousness Research, USA. Scientific interests: the neural basis of cognition and affect; the cognitive neuroscience of music, and the mechanisms underlying acute and enduring effects of psychedelic drugs.

Etzel Cardeña | Thorsen Professor of Psychology and Director of the Center for Research on Consciousness and Anomalous Psychology (CERCAP), Department of Psychology, Lund University, Sweden. Scientific interests: the psychology of anomalous experiences/non-ordinary mental expressions, including parapsychological phenomena; neurophenomenology of hypnosis, meditation and dissociation; stream of consciousness.

Miguel Castelo-Branco | Full Professor, University of Coimbra, Portugal. Affiliate Professor, University of Maastricht, The Netherlands, where he has held a Professorship in Psychology in 2000. Before, Postdoctoral fellow, Max-Planck-Institute for Brain Research. Director of IBILI and Scientific Coordinator of the National Functional Brain Imaging Network. Director of CIBIT and former Director of ICNAS, University of Coimbra. Scientific interests: sensory and perceptual neuroscience, and neurobiology of decision-making; social cognition and reward in health and disease, with a focus on autism research.

Nicola Clayton | Professor of Comparative Cognition, Department of Psychology, University of Cambridge, UK. Fellow of Clare College and Fellow of the Royal Society, Director of the Cambridge Centre for the Integration of Science, Technology and Culture. She has worked with Mark Baldwin for almost fifteen years. Scientific and artistic interests: thinking with and without words; choreography inspired by comparative cognition.

Axel Cleeremans | Research Director with the F.R.S-FNRS (Belgium); Director of the Center for Research in Cognition & Neurosciences, Université Libre de Bruxelles; Member of the Royal Academy of Belgium. Scientific Interests: Consciousness; unconscious cognition; computational modelling of cognitive processes; agency; affective neuroscience.

Rui Costa | President and CEO, Allen Institute, Washington, and Professor of Neuroscience and Neurology, Columbia University, New York, USA. Scientific interests: molecular, cellular and systems mechanisms of action generation, sequence and skill learning, goal-directed actions versus habits, across-level approach to study cognitive and sensorimotor disorders (PD, OCD, and autism).

Amory Danek | Postdoctoral Researcher and Lecturer, Department of Psychology, Heidelberg University, Germany. Founder of Insight without Borders (discussion forum for insight researchers across the world). Scientific interests: human problem solving; creativity; meta-reasoning; false insights; memory and magic tricks.

Marcus du Sautoy | Simonyi Professor for the Public Understanding of Science and Professor of Mathematics, University of Oxford, UK. Author of eight books and two plays, he has presented numerous radio and TV series including "The Story of Maths" for BBC. He works extensively with a range of arts organisations bringing science alive for the public. Scientific interests: understanding the world of symmetry using zeta functions, a classical tool from number theory.

Rainer Goebel | Professor of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University, The Netherlands. Founding director of the Maastricht Brain Imaging Centre (M-BIC). Scientific 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.

Michael Hanchett Hanson | Director, Masters Concentration in Creativity and Cognition, Teachers College, Columbia University, USA. Member of the Chair, Homo Creativus, l'Université de Paris-Cité, France. Secretary, International Society for the Study of Creativity and Innovation (ISSCI); Editor, Creativity in Practice series, Routledge. Scientific interests: systems-based analyses of creative development across lifespan and creative development within educational contexts.

Edward Kelly | Professor, Division of Perceptual Studies, Department of Psychiatry and Neurobehavioral Sciences, School of Medicine, University of Virginia, Charlottesville, USA. Co-director of Ray Westphal Neuroimaging Laboratory. Scientific interests: neuroimaging studies of exceptional psi subjects and psi-conducive states of consciousness, and both scientific and philosophical theories of consciousness and mind/brain relations.

Morten Kringelbach | Professor of Neuroscience, Universities of Oxford, UK, and Aarhus, Denmark. Founding Director of Centre for Eudaimonia and Human Flourishing, Linacre College. His research uses advanced analysis methods on precise paradigms in healthy people, as well as in at-risk and diseased populations. Scientific interests: reverse-engineer the human brain to elucidate the heuristics that allow us to survive and flourish.

Todd Lubart | Professor of Psychology, University Paris Cité, France. Serves on the editorial board of several journals concerning creativity and innovation, received the Berlyne award (American Psychological Association), the NAGC Torrance Award, and was a junior member of the *Institut Universitaire de France*. President of the International Society for the Study of Creativity and Innovation. Scientific interests: measures of creative potential; environmental support for creativity using virtual reality; development of creativity through game play and the use of generative AI for creativity.

Penousal Machado | Associate Professor, Department of Informatics Engineering, University of Coimbra, and coordinator of the Cognitive and Media Systems group of CISUC, Portugal. President of SPECIES (Society for the Promotion of Evolutionary Computation). Author of more than 200 refereed journals and conference papers and recipient of several scientific awards, his work was presented in venues such as the National Museum of Contemporary Art and MoMA, NY, USA. Scientific interests: artificial intelligence; evolutionary computation; computational creativity; information visualization.

Tiago Martins | Assistant Professor, University of Coimbra, Portugal. Cross-media designer and researcher of the Computational Design and Visualization lab (CDV), a multidisciplinary research laboratory of the Cognitive and Media Systems Group (CMS) of the Centre of Informatics and Systems of the University of Coimbra (CISUC). Scientific interests: Generative Design and Art, Evolutionary Computation, Computational Creativity.

Lucia Melloni | Head of the Neural Circuits, Consciousness, and Cognition Research Group, Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany, and Research Professor, Department of Neurology, NYU Grossman School of Medicine, USA. Scientific interests: understanding the neural underpinnings of how we see (perception), how and why we experience what we see (consciousness), and how those experiences become imprinted in our brain (learning and memory), as well as the interplay between these processes.

Sergio Neuenschwander | Full Professor, Brain Institute, Federal University of Rio Grande do Norte, Natal, Brazil. Scientific interests: neuronal mechanisms of visual perception; role of cortical dynamics in perceptual organization; information transfer in the retinogeniculate system.

Marilyn Schlitz | Professor of Transpersonal Psychology, Sofia University, Bulgaria, and CEO/President Emeritus and Senior Fellow, Institute of Noetic Sciences, USA. Social scientist, award-winning author, filmmaker, and dynamic public speaker. She has published several books and hundreds of articles in scholarly journals and popular publications, and has lectured in diverse venues across the world, including the United Nations. Scientific interests: clinical, laboratory, and field-based research into consciousness, human transformation, and healing.

Stefan Schmidt | Professor of Systemic Family Therapy and Head of the Academic Section of Systemic Health Research, Department of Psychosomatic Medicine and Psychotherapy, University Medical Centre, Freiburg, Germany. Scientific interests: systems approaches in health research, psychophysiology, consciousness research, mindfulness meditation, experimental parapsychology, exceptional experiences and placebo research.

Christine Simmonds-Moore | Professor of Psychology, Psychology program, Department of Anthropology, Psychology and Sociology, University of West Georgia, USA. Director of the Exceptional Experiences Research Lab [EERL]. Scientific interests: exceptional experiences (ExE); paranormal beliefs and disbeliefs; individual difference correlates of ExE (including positive schizotypy, transliminality, synesthesia, ASMR, and interoception); mental health correlates of ExE; altered states of consciousness.

Mário Simões | Retired Professor of Psychiatry and Consciousness Sciences, Faculty of Medicine of Lisbon, Portugal. Scientific interests: psychology and psychophysiology of altered states of consciousness; ethnomedicine; human exceptional experiences and psychology and spirituality.

Nuno Sousa | Professor at the School of Medicine, University of Minho. Director of the Clinical Academic Center (2CA) - Braga and Researcher at ICVS, University of Minho, Braga, Portugal. Scientific interests: neurobiology of stress and brain network plasticity.

Caroline Watt | Holder of the Koestler Chair of Parapsychology, and founder member of the Koestler Parapsychology Unit, Psychology Department, University of Edinburgh, Scotland. Scientific interests: testing the psi hypothesis using the ganzfeld method; replication and methodological issues in parapsychology.



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