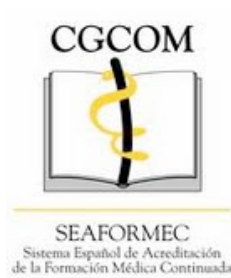




BRAIN MECHANISMS MEETING  
MADRID 2010  
NEUROSCIENCE MULTIDISCIPLINARY  
MEETING



**NEUROSCIENCE  
MULTIDISCIPLINARY MEETING**

*[www.brainmech.org](http://www.brainmech.org)*

*"Brain Mechanisms: from neural networks to complex social behaviours", the meeting point of clinicians and neuroscientists ...*

**Madrid 2010**

**SPAIN**

## INVITATION TO ATTEND

Professionals of Neuroscience are invited to attend the most important international meeting of the year, that is going to take place in Madrid.

It'll be the first Neuroscience Multidisciplinary Meeting hosted by the Brainmech Foundation in Spain after the last conference held in Holland in 2007.

This is a unique opportunity for professionals to learn today what investigators and scientists on neuroscience are preparing for the future. It'll be the meeting point for Psychiatrists, Psychologists, Neurologists and Pediatricians that will have the chance to learn from the authors about the last investigations and researches on the human brain, new methods of diagnosis, new diagnosis criteria on mental disorders proposed for the DSM-V, neurobiologist database of the ADHD, bipolar disorder, as well as the new treatments and therapy for neurological illness and psychiatric malfunctions.

Speakers at the meetings will share their experience and knowledge in a unique scenery at Kinopolis in Madrid, the best congress auditorium with the latest technology and multimedia facilities to participate in a more dynamic way with some of the World best Neuroscience Specialists.

Our main target is to review the actual situation of knowledge about an ample variety of pathologies and, based on the last investigations on the human brain mechanisms, to create an adequate forum to share scientific information of the highest level between the different clinic specialists who have Neuroscience as a common point.

## SCIENTIFIC COMMITTEE

### **Dr. Moises Aguilar Domingo**

Chairman of the Spanish Foundation for Development of Neurofeedback. Murcia (Spain).

### **Dr. Francisco Javier Manzanera Lopez**

Psychiatrist at the Mental Health Centre in Caravaca, Murcia, (Spain).

### **Dr. Francisco Montanes Rada.**

Chief of Psychiatry of the Foundation "Hospital de Alcorcon", Madrid, (Spain).



### **Dr. Moises Aguilar Domingo**

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Born in Valencia in 1971, he received his medical degree from the University of Valencia in 1994. Dr. Aguilar is Chairman of the Spanish Foundation for Development of Neurometrics, based in Murcia. He combines his non-stop activity at the Spanish Institute for Development of Neurometrics with investigation at the Human Brain Institute, in St. Petersburg, Russia.

Dr. Aguilar is a professor of the American BCIA.org and Member of Honor of the Pediatrics Academy.

He is also chairman of the "Brain Mechanisms: from neural Networks to Mind".



**Dr. Francisco Javier Manzanera López**

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Dr. Manzanera was born in La Nora (Murcia). Graduated Licensed in Medicine in 1991 from the University of Murcia, he did a fellowship in Psychiatry in 1996 and obtained his Medical Doctorate degree in 2004 with his thesis “Evolution of negative symptoms of the never treated psychosis”. College Specialist on Forensic Psychiatry and Master in Psychotherapeutics Intervention by the National Remote Education University. Since March 2005, he is Psychiatrist at the Mental Health Centre in Caravaca, a part of the Murcia Region Health System.



**Dr. Francisco Montanes Rada**

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He is the Chief of the Psychiatry Department and Responsible for the Child Psychiatry Program at the Alcorcon Hospital in Madrid. Dr. Montañes is Profesor of Psychobiology at the Universidad Complutense and coordinator of Post-degree programs and Scientific Meetings about Child Psychiatry. He’s also studying other areas, as the application of Psychiatry in the Theory of Evolution (Evolutionist Psychopathology) and the Mathematical Theory of Games.

## **SPEAKERS**

### **OPENING CEREMONY.**

#### **Dr. Moises Aguilar Domingo**

Chairman of the Spanish Foundation for Development of Neurometrics, Murcia.

BrainMech 2010, presentation.

#### **Dr. Francisco Montanes Rada**

Chief of Psychiatry of the Foundation "Hospital de Alcorcon", Madrid.

Psychopathology of Evolution

#### **Dr. Alberto Fernandez Jaen**

Chief of Neuropediatrics at Quiron Hospital in Madrid

Plus ADHD.

### **MASTER MEETINGS.**

#### **Prof. Luis Rojas Marcos**

Professor of Psychiatry and Medical Director for Affiliations at New York University School of Medicine.

*"Affective links make human beings the way they are"*

#### **Dr. Catherine Johnson, PhD.**

Professor at the School of Psychology, Queen's University Belfast

*"The Mild Forms of Major Mental Disorders, that sabotage us".*

#### **Prof. Jury D. Kropotov**

Director of the Human Brain Institute Laboratory at the Russian Sciences Academy in St. Petersburg

*"Quantitative EEG, Event Related Potentials and Neurotherapy"*

**Jay Gunkelman**

Licensed on qEEG, biofeedback and Neurofeedback in 2002 by the AAPB Board.  
California, USA.

*“Neural circuits, self-regulation, brain waves & information flow”.*

**Dr. Lionel Milgrom**

Dr. Lionel Milgrom work as senior lecturer in inorganic chemistry at Imperial College of Science and Technology in London.

*“Neural Networks Entanglement”*

**Prof. Luca Pani**

Director of the Neuropharmacology Section at the Institute of Biomedical Technologies National Research Council in Pula (Cagliari), Italy. Professor and consultant in Psychopharmacology.

*“Schizophrenia and Bipolar Disorder Biomarkers”.*

**WORKING SESSIONS.**

**Dr. Hans-Jürgen Kühle**

Specialist in Pediatrics and Neuropediatrics. Giesen, Germany

*“Self-regulation of the visual attention, facial expression and emotions on children with T.D.A.H.”*

**Dr. Francisco Javier Manzanera Lopez**

Psychiatrist specialized in teenagers and adults. University of Murcia, Spain

*“Attentional networks, TDH and comorbidities: an amazing story”*

**Jay Gunkelman**

Licensed on qEEG, biofeedback and Neurofeedback en 2002 by the AAPB Board.  
California, USA.

*“DSM-V: qEEG Phenotypes predict treatment outcomes to stimulants in ADHD children”.*

**Dr. Alberto Fernandez Jaen**

Chief of the Neuropediatrics at Quiron Hospital in Madrid

*"Facing the perspective of the neuropediatrician on children with mental disorders".*

**Dr. Moises Aguilar Domingo**

Chairman of the Spanish Foundation for Development of Neurometrics

*"The importance of electromagnetic biometrics on diagnosis of mental disorders".*

**Prof. Jury D. Kropotov**

Director of the Human Brain Institute Laboratory at the Russian Sciences Academy  
in St. Petersburg

*"Endophenotypes in ADHD and Schizophrenia".*



**Prof. Luis Rojas Marcos**

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Prof. Rojas Marcos was born in Seville, Spain in 1943. Immediately after graduating from Seville University Medical School in 1967, he emigrated to New York City where he completed his residency training in Psychiatry at New York University (NYU) and Bellevue Hospital Center in 1972.

He is currently a tenured Professor of Psychiatry and Medical Director for Affiliations at New York University School of Medicine.

Member of the City's Emergency Management, Prof. Rojas Marcos was on the front line during the tragic events of September 11, 2001.

He has been the longest serving President of the Corporation (1995-2002).

He has published extensively in English and Spanish in the areas of public health and cultural psychiatry.



**Dr. Catherine Johnson, PhD.**

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Bachelor of Science (*First Class Honours*), majors in Psychology and Physiology and a Bachelor of Arts (major in History and minor in Politics) before completing a PhD in Psychology (1997-2001) at Monash University, in Melbourne Australia. Her thesis topic was “*Movement preparation and execution in Huntington’s and Parkinson’s diseases*”, under the supervision of Professor John Bradshaw, Professor Bob Ianssek and Dr Ross Cunnington. She worked then for three years as a management consultant with Bain & Company in Melbourne (2001–2004) before returning to science to work as a research fellow in Trinity College Dublin, under the direction of Professor Ian Robertson (Psychology) and Professor Michael Gill (Psychiatry) (2004–2009). She joined the School of Psychology at Queen’s University Belfast in March 2009. Her research focuses on the physiological and cognitive deficits associated with childhood psychiatric disorders, especially attention deficit hyperactivity disorder (ADHD) and autism.



**Prof. Jury D. Kropotov**

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This particle physicist was born in St. Petersburg (Russia) and he is one of the world’s brightest minds. His work and investigations, along with scientists like Schrödinger and Feynman has contributed to uncover the misteries of Life and the information processes hidden in neural networks” Director of Laboratory for Neurobiology of Action Programming, Institute of the Human Brain of Russian Academy of Sciences. He won the USSR State Prize in Science in 1985 Professor at the Institute of Psychology, Norwegian University for Science and Technology, Trondheim, Norway. He’s recently published his book “Quantitative EEG, Event Related Potentials and Neurotherapy”, one of the world’s most significant works in the area of Neuroscience.



## **Jay Gunkelman**

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This Neuropsychologist was Licensed on qEEG, biofeedback and Neurofeedback in 2002 by the AAPB Board, California, USA, started in 1972 with the first State Hospital based biofeedback laboratory, and then specializing in EEG for decades, Jay is one of the most experienced Clinical and research EEG/qEEG specialists in the world. He has recorded more 500.000 EEGs. Author of many scientific papers, and a mounting list of books, his depth of understanding of the mind/brain's function is unique. Jay is a popular lecturer world-wide, and he has occupied leadership positions in the field's professional societies, as well as running a successful EEG/qEEG business.



## **Prof. Luca Pani**

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Professor Pani is Director of the Neuropharmacology Section at the Institute of Biomedical Technologies National Research Council in Pula (Cagliari), Italy. He holds most of the shares of PharmaNess S.c.a.r.l., one of the most important non-profit Research Centres focusing on pharmacology and biotechnology. In 2007 Luca Pani entered a partnership with John Fairbairn and Bruno Kavanaugh to promote medical formation of the highest level as well as for spreading information related to Mental Disorders. He is also a Professor and International Consultant in Psychopharmacology and heads many clinical research projects in the area of Bipolar Disorders and Treatment of First Stage Psychosis. Prof. Pani has become an international reference in molecular biology applied to the design of psychopharmacological products.



### **Dr. Lionel Milgrom**

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Dr. Lionel Milgrom has been researching in porphyrin chemistry for over 24 years. His fascination for these colourful compounds began as a Post Graduate Research Assistant with Prof. G.W. Kenner at Liverpool University and continued with Dr. J. Dalton at the City of London Polytechnic, followed by working as a Post Doctoral Research Assistant with Prof. D.F. Evans FRS and Prof W.J. Albery FRS at Imperial College of Science and Technology. His independent research career included posts as senior lecturer in inorganic chemistry at Kingston Polytechnic and then Brunel University before moving back as a Senior Visiting Scientist to Imperial College in collaboration with Prof. Phillips.

He is author or co-author of some 70 academic papers on various scientific aspects of porphyrins, has written a book on the chemistry of porphyrins and related compounds entitled, 'The Colours of Life', and is a respected science writer and communicator with many articles and reviews published in broadsheets and magazines.



### **Dr. Hans-Jürgen Kühle**

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Born in Hannover, Germany, in 1954, he graduated at Giessen, Germany and at University of Chile in Valparaiso, Chile, he obtained his degree in Medicine in 1980. He received his doctor degree in 1982 specializing on pediatrics and neuropsychiatrics. Dr. Kuehle has focused his research and studies on Attention Deficit Hyperactivity Disorder (ADHD), performing studies on facial expressions of emotions and mathematical tasks performance on children with ADHD and studying their reactions to determine the optimal dosis of stimulant medication.



## **Dr. Alberto Fernandez Jaen**

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Dr. Alberto Fernandez is Chief of the Neuropediatrics Department at Quiron Hospital, in Madrid. He studied Medicine and Surgery at the Autonomous University of Madrid and received his Doctor's Degree in Pediatrics. Doctor Fernandez also obtained an International Master in Psychology. He is a member of the Pediatrics Society of Madrid and Castilla-La Mancha, the Spanish Society of Pediatric Neurology and the Spanish Society of Neurology, among others. He is also a consultant and cooperates with many societies that specialize in helping children with different syndromes and diseases. Dr. Fernandez is the author of many national and international publications about ADHD.

## Programme

DATE	LOCATION	TIME	TITLE
		<b>OPENING SESSION</b>	
	Main Conference Room	18:00	Reception and Registration
		19:00	Official Welcome
		19:15	Welcome and Introduction to BrainMech 2010. Dr. Moises Aguilar Domingo
		19:30	Plus ADHD. Dr. Alberto Fernandez Jaen
		20:00	Psychopathology of Evolution Dr. Francisco Montanes Rada

DATE	LOCATION	TIME	TITLE
		<b>MASTER MEETINGS</b>	
	Main Conference Room	09:00	Session opening Dr. Francisco Montanes Rada
		09:15	“Affective links make human beings the way they are” Prof. Luis Rojas Marcos.
		10:15	The Mild Forms of Major Mental Disorders Dr. Catherine Johnson.
		11:15	Coffee Break
		11:45	qEEG, ERP and Neurotherapy Prof. Jury D. Kropotov.
		12:45	Forum (Q & A)
			13:30
	Main Conference Room	15:30	Session Opening Dr. Moises Aguilar Domingo
		16:30	Neural Circuits, Self-regulation, Brain waves & information flow Dr. Jay Gunkelman
		17:30	Brain Coherence Dr. Lionel Milgrom
		18:30	Coffee Break
		19:00	“Schizophrenia and Bipolar Disorder Biomarkers”. Prof. Luca Pani
		20:00	Forum (Q & A)

DATE	LOCATION	TIME	TITLE
		<b>WORKING SESSIONS</b>	
		09:00	Self-regulation of the visual attention, facial expression and emotions on children with ADHD Dr. Hans-Jürgen Kühle
		10:00	Attentional Networks, ADHD and comorbidities: an amazing story Dr. Francisco Javier Manzanera Lopez
		11:00	Coffee Break
		11:30	DSM-V: qEEG phenotypes, predict treatment outcomes to stimulants in ADHD children Dr. Jay Gunkelman
		12:30	Forum (Q & A)
		15:30	Facing the perspective of the neuropsychiatrist on children with mental disorders Dr. Alberto Fernandez Jaen
		16:30	The importance of electromagnetic biofeedback on diagnosis of mental disorders Dr. Moises Aguilar Domingo
		17:30	Coffee Break
		18:30	Endophenotypes in ADHD & Schizophrenia Prof. Jury D. Kropotov
		19:30	Forum (Q & A)
		20:00	Conclusions and closing Scientific Comitee FEDN.