

BrainMech

MADRID 2010

NEUROSCIENCE MULTIDISCIPLINARY
MEETING



**NEUROSCIENCE
MULTIDISCIPLINARY MEETING**

www.brainmech.org

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

FEB 11th,12th & 13th, 2010

Kinepolis Madrid

SPAIN

INVITATION TO ATTEND

From February 11th to the 13th, 2010, 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. Moisés Aguilar Domingo

Chairman of the Spanish Foundation for Development of Neurofeedback

Dr. Francisco Javier Manzanera López.

Psychiatrist at the Mental Health Centre in Caravaca, Murcia, Spain

Dr. Francisco Montañés Rada.

Chief of Psychiatry of the Foundation “Hospital de Alcorcón”, Madrid



Dr. Moisés Aguilar Domingo

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” and the “I.E.D.N Normative Database” projects.



Dr. Francisco Javier Manzanera.

Dr. Manzanera was born in La Ñora (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 Montañés Rada

He is the Chief of the Psychiatry Department and temporarily Responsible for the Child Psychiatry Program at the Alcorcon Hospital in Madrid. Dr. Montañés 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. Thursday. Feb. 11th

Dr. Moises Aguilar Domingo

Chairman of the Spanish Foundation for Development of Neurofeedback

Dr. Francisco Montañas Rada.

Chief of Psychiatry of the Foundation "Hospital de Alcorcón", Madrid

Dr. Alberto Fernández Jaén.

Chief of the Neuropediatrics at the Quiron Hospital in Madrid

MASTER MEETINGS. Friday. Feb. 12th

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"

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, waves and brain information flow”.

Dr. Jill Bolte Taylor.

Harvard-trained and published neuroanatomist. Her specialty was in the
postmortem investigation of the human brain. President of the National Alliance
on Mental Illness Greater Bloomington Area. Bloomington, Indiana

“Brain Coherence”

Dr. Kiki D. Chang

Associate Professor of Psychiatry and Behavioral Sciences at Stanford University.
Director of the Pediatric Bipolar Disorders Program.

“New approaches in diagnostics and correction of Bipolar Disorder”.

WORKING SESSIONS. Saturday. Feb. 13th

Dr. Hans-Jürgen Kühle

Specialist in Pediatrics. Neuropediatrician at the University of Mainz, Germany.

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

Dr. Francisco Javier Manzanera

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 the Quiron Hospital in Madrid

“Facing the perspective of the neuropediatrician on children with mental disorders”.

Dr. Moisés 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, Autism & asperger”.



Dr. Alberto Fernández Jaén

Dr. Alberto Fernández is Chief of Neuropediatrics Department at the Quiron Hospital, in Madrid. He has several national and international publications about ADHD.



Prof. Luis Rojas Marcos.

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

Dr. Marcos 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, Dr. 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).

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



Dr. Catherine Johnson, PhD.

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.

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.

This Neurophysiologist 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.



Dr. Kiki D. Chang

Nowadays Dr. Chang is the Associate Professor of Psychiatry and Behavioral Sciences at Stanford University and Director of the Pediatric Bipolar Disorders Program.

He participate actively with several scientific societies for the promotion of investigation in the area of mental diseases on children and adolescents. He has several works published, mainly on the ADHD, Bipolar Disorders and Schizophrenia.

He is currently conducting phenomenologic, biologic, pharmacologic, and genetic studies of bipolar disorder in adults and children. These studies include brain imaging (MRI, MRS,

fMRI) and medication and therapy trials. He is particularly interested in detecting prodromal bipolar disorder in children who might then be treated to prevent the development of full bipolar disorder.



Dr. Jill Bolte Taylor.

Dr. Jill Bolte Taylor is a trained and published neuroanatomist. Her specialty was in the postmortem investigation of the human brain as it relates to schizophrenia and the severe mental illnesses. Because she has a brother who has been diagnosed with the brain disorder schizophrenia, Dr. Taylor served for three years on the Board of Directors of the National NAMI organization (National Alliance on Mental Illness) between 1994-1997. Currently she serves as President of the Greater Bloomington Affiliate of NAMI in Bloomington, Indiana.

Because there is a long term shortage of brain tissue donated for postmortem research by individuals diagnosed with schizophrenia or bipolar disorder, Dr. Taylor travels as the National Spokesperson for the Mentally Ill for the Harvard Brain Tissue Resource Center (Harvard Brain Bank) located at McLean Hospital.

In May of 2008, TIME Magazine chose Dr. Taylor as one of the 100 Most Influential People in the World



Dr. Hans-Jürgen Kühle

Specialist in Pediatrics. Neuropediatrician at the University of Mainz, Germany.

Programme

DATE	LOCATION	TIME	TITLE
THURSDAY 11	Main Conference Room	OPENING SESSION	
		18:00	Reception and Registration
		19:00	Spanish Government Official Welcome Mrs. Trinidad Jimenez, Ministry of Health
		19:15	Welcome and Introduction to BrainMech 2010. Dr. Moisés Aguilar Domingo
		19:30	Mental Health: present and future Dr. Alberto Fernandez Jaen
		20:00	Psychopathology of Evolution Dr. Francisco Montañés Rada
		21:00	DINNER

DATE	LOCATION	TIME	TITLE
FRIDAY 12th	Main Conference Room	MASTER MEETINGS	
		09:00	Session opening Dr. Francisco Montañés.
		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	Lunch
	Main Conference Room	15:30	Session Opening Dr. M. Aguilar Domingo
		16:30	Neural Circuits, Self-regulation, Waves & Brain information flow Dr. Jay Gunkelman.
		17:30	Brain Coherence Dr. Jill Bolte Taylor.
		18:30	Coffee Break
		19:00	Bipolar Disorders Dr. Kiki Chang
		20:00	Forum (Q & A)
		21:00	Dinner

DATE	LOCATION	TIME	TITLE
SATURDAY 13th	Conference Room A	WORKING SESSIONS	
		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
		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)
	Conference Room B	09:00	Facing the perspective of the neuropsychiatrist on children with mental disorders Dr. Alberto Fernandez Jaen
		10:00	The importance of electromagnetic biofeedback on diagnosis of mental disorders Dr. Moises Aguilar
		11:00	Coffee Break
		11:30	Endophenotypes in ADHD, Autism & Asperger Prof. Jury D. Kropotov
		12:30	Forum (Q & A)
	Main Conference Room	13:00	Conclusions and closing Scientific Comitee FEDN.
		14:00	Lunch.