



CUBANNI 2017
First International Meeting
of The Cuban Network of Neuroimmunology
Varadero, Cuba. June 10-14, 2017



<http://promociondeeventos.sld.cu/neuroinmunologia2017en/>
maria.robinson@infomed.sld.cu

SCIENTIFIC PROGRAM

Saturday, June 10 - Arriving in BLAU MARINA VARADERO

Check-in and enjoying the hotel

14:00-15:00 hrs: Accreditation

17:30 hrs: Welcome activity

Place: Conference Room

Chairs: V. Wee Yong (Canada)

Maria Robinson Agramonte (Cuba)

Nibaldo Hernandez Mesa (Cuba)

Welcome talks: SONECUB Executives

Opening Lectures:

17.50-18.20 hrs: Orlando Serrano Barrera (Cuba). Some founding events on the history of neuroimmunology

18.25-19.00 hrs: V. Wee Yong. University of Calgary, Canada (ASNI). Modulating inflammation in multiple sclerosis

19:00-19:30 hrs: Welcome activity and cocktail

Sunday, June 11 – SESSION 1

07:30-08:15 hrs: Breakfast at Buffet Room

08:15-08:30 hrs: Accreditation

Fourth International Workshop of Neuroimmunology

8.30-10.15 hrs: Symposium on epigenetics and therapies in demyelinating diseases

Chairs: Fernando Gracia (Panama) and Amado Diaz de la Fe (Cuba)

8:30-9:15 hrs: Fernando Gracia (Panama). Current aspects on B cell in the pathological process of MS. New therapies in development

09:20-09:35 hrs: Maria Robinson Agramonte (Cuba). Molecular biomarkers and comorbidities in MS

09:40-09:55 hrs: Amado Diaz de la Fe (Cuba). Physical therapy in MS patients: A Cuban experience recovering the neural function

10:00-10:15 hrs: Yanely Real Gonzalez (Cuba). Speech therapy in persons with multiple sclerosis

10:15-10:25 hrs: Coffee break

10:25-12.30 hrs: Symposium on neuroimmune interactions and repair of brain damage

Chairs: Profs. Lourdes Lorigados Pedre (Cuba) and Carlos Alberto Goncalves (Brazil)

10.25-10.50 hrs: Carlos Alberto Goncalves. (Brazil). The role of S100B protein in neuroinflammation

10.55-11.25 hrs: Michal Schwartz / Aleksandra Deczkowska (Israel). Reversing age-related dementia and Alzheimer's disease by restoring the brain-immune axis

11.30-11.45 hrs: Ivette Fernandez (Cuba). Cuban hematopoietic factors, G-CSF and EPO, as promising targeted therapy in cognitive/motor impairments in a nonhuman primate model of Alzheimer's disease: neurobehavioral findings

11.50-12.05 hrs: Lourdes Lorigados Pedre (Cuba). Two years follow-up of IL-1 β , IL-6 in temporal lobe drug-resistant epilepsy patients treated surgically



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12.10-12.30 hrs: Priscila Machado Rosa (Brazil). Resveratrol protects oligodendroglia against LPS-mediated cytotoxicity via heme oxygenase-1

12:30-13:55 hrs: Lunch

14.00-15.30 hrs: Symposium on Modulating functions in neurological disease

Chairs: Diogo Onofre (Brazil) and Yanier Nuñez Fernandez (Cuba)

14.00-14.20 hrs: Diogo Onofre and Gabriel Muller (Brazil). Insights on Neuroprotection: Translational Perspective on New Drugs

14.25-14.45 hrs: Lionel Muller (Argentina). TDP-43-mediated neurodegeneration: role of inflammation in novel transgenic models of FTD/ALS

14.50-15.05 hrs: Miriam Marañón Cardone (Cuba). Neuroprotective treatment with sinusoidal extremely low frequency magnetic fields: experimental evidences

15.10-15.25 hrs: Lena Font (Cuba). Ca²⁺-dependent NO pathway in extremely low frequency magnetic fields (13,5 Mt/60 Hz) induces migration in HMEC-1 cells

15:25-15:35 hrs: Coffee break

15:35-15:50 hrs: Maylin Wong-Guerra (Cuba). Neuroprotective effects of JM-20 on aluminum chloride-induced learning impairments, mitochondrial dysfunction and neuronal death in adult rats

15:55-16:10 hrs: LA Fonseca-Fonseca (Cuba). JM-20, a novel hybrid molecule, protects against 6-hydroxydopamine-induced neurotoxicity in in vivo and in vitro models of Parkinson's disease

16:15-16:30 hrs: Jeney Ramirez-Sanchez (Cuba). Regional effects of transient cerebral ischemia on astrocytes reactivity and PI3K/Akt survival pathway: role of JM-20

16:35-16:50 hrs: Edward Malaga-Trillo (Peru). From zebrafish prion proteins to Alzheimer's disease: roles of SFK-mediated protein trafficking in neurodegeneration

17:00 hrs: Neuroimmunology Raffle

Monday, June 12 - SESSION 2

07:30-08:30 hrs: Breakfast at Buffet Room

08:15-08:30 hrs: Accreditation

VIII International Symposium of Hereditary Ataxias and other neurodegenerations

08:30-10:45 hrs: Session I

Chairs: Georg Auburger (Germany) and Yaimee Vazquez Mojena (Cuba)

08:30-09:00 hrs: Georg Auburger (Germany). Ataxin-2 as translation factor with specificity for mitochondrial precursors

09:05-09:35 hrs: Luis Velazquez Perez (Cuba). Spinocerebellar Ataxia type 2: early biomarkers and clinical trials

09:40-10:10 hrs: Yaimee Vazquez Mojena (Cuba). Neuroinflammation in SCA2 ataxia

10:15-10:45 hrs: Roberto Rodriguez Labrada (Cuba). Novel electrophysiological biomarkers for SCA2

10:45-10:55 hrs: Coffee break

11:00-11:30 hrs: Paul Mathew (USA). A new mouse model and treatment for ataxia-telangiectasia

11:35-11:55 hrs: Dennis Almaguer Gotay. Metabolic disorders and their relationship with the clinical phenotype of SCA2



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12:00-12:25 hrs: Patricia Hernandez Casañas (Cuba). Intra-nasal administration of non-hemopoietic erythropoietin promotes clinical benefit without toxicity in spinocerebellar ataxia type 2 patients: results from a 6 months, double-blind, placebo-controlled phase 2 clinical trial

12:30-13:55 hrs: Lunch

VIII International Symposium of Hereditary Ataxias and other neurodegenerations

Session II

14:00-14:35 hrs: Jandy Campins Ali (Cuba). Parkinsonian phenotype in SCA2

14:35-14:55 hrs: Luis Enrique Almaguer Mederos (Cuba). MTHFR C677T polymorphism is associated to disease progression in spinocerebellar ataxia type 2

15:00-15:25 hrs: Julio C Rodríguez (Cuba). Physical therapy in SCA2 patients: experiences over 15 years

15:30-15:45 hrs: Coffee break

15:45-17:40 hrs: Digital posters Session

Tuesday June 13 - SESSION 3

07:30-08:15 hrs: Breakfast at Buffet Room

08:30-10:40 hrs: Symposium on inflammation, biomarkers and intervention in neurodevelopmental disorders

Chairs: Scott Hunter (USA) and Lazaro Gomez (Cuba)

08:30-09:00 hrs: Scott Hunter (USA). How Neuropsychology informs Neuroimmunology - Understanding the Cognitive and Behavioral Vulnerabilities in Autism Spectrum Disorders

09:05-09:25 hrs: Maria Robinson Agramonte (Cuba). From clinical to molecular in autism. A pending task for science

09:30-09:50 hrs: Dalina Laffita (USA). Suppressing Igf-1 signaling pathway rescues neuronal overgrowth of Pten^{+/-} mice

09:55-10:20 hrs: Manuel F Casanova (USA). Neuropathology and current tools for treatment in autism

10:25-10:40 hrs: Lazaro Gomez (Cuba). Effects of non-invasive brain stimulation in children with autism spectrum disorder: a short term outcome study

10:40-10:55 hrs: Coffee break

10:55-13:30 hrs: Lectures on Neuroimmunology and clinical applications

Chairs: Jack Antel (Canada) and Tania Valdez (Cuba)

10:55- 11:15 hrs: Jack Antel (Canada). Regulation of immune activity within the central nervous system

11:20-11:40 hrs: Manfred Schedlowski (Germany). Learned immune responses - mechanisms and potential clinical applications

11:45-12:10 hrs: Hartmut Wekerle (Germany). Nature and nurture - Gut microbiota and multiple sclerosis

12:15-12:35 hrs: Lilia María Morales Chacón (Cuba). Long-term electroclinical follow up in temporal lobe epilepsy surgery

12:40-13:00 hrs: Ivon Pedrosa Ibañez (Cuba). Erythropoietin induces neuroprotection in patients with Parkinson's disease

13:05-13:25 hrs: Carlos M Martínez Ortiz (Cuba). MS-scan computer program for identification of exact and inexact microsatellites in genomic sequences



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13:30-14:30 hrs: Lunch Buffet
18:30-20:00 hrs: Dinner Buffet
20:15-23:00 hrs: Closing Ceremony

Wednesday June 14 - SESSION 4

07:30-08:30 hrs: Breakfast at Buffet Room
09:00-09:25 hrs: Prof. Nibaldo Basilio Hernandez Mesa. Meditation and Neurosciences
09:30-10:00 hrs: Practical Session
12:00 hrs: Check-out
16:00 hrs: Return to Havana

Poster Session

1. Hernández Dora Lilia, Moreno Sonia, Uribe Juliana, Amanda Saldarriaga Alexander, Francisco Lopera (Colombia). Clinical characterization of families with Ataxia in Antioquia-Colombia.
2. Huang W, Laffita D, Page D (Colombia). Suppressing Igf-1 signaling pathway rescues neuronal overgrowth of Pten^{+/-} mice.
3. Efrain Vasquez, Sonia Moreno, Nora Montelealegre, Ignacio Muñoz, Francisco Lopera (Colombia). Prevalence of Huntington disease in Colombia: A pilot study in Antioquia.
4. Wong-Guerra M, Jiménez-Martin J, Nonosse Y, Fonseca-Fonseca L, Ramirez-Sanchez J, de Assis AM, Onofre-Souza D, Quincozes A, Pardo-Andreu G, Menéndez-Soto del Valle R, Aparicio G, Valdés O, Merino N, Nuñez-Figueroa Y (Cuba). Neuroprotective effects of JM-20 on aluminium-chloride-induced learning impairments, mitochondrial dysfunction and neuronal death in adult rats.
5. Lisette Blanco Lezcano, Javier Jimenez-Martin, Mei-Li Díaz Hung, Esteban Alberti Amador, Maylin Wong Guerra, Ma. Elena González Fraguera, Bárbara Estupiñán Díaz, Teresa Serrano Sánchez, Liliana Francis Turner, Susana Delgado Ocaña, Yanier Núñez Figueroa, Yamilé Vega Hurtado, Isabel Fernández Jiménez (Cuba). Motor dysfunction and alterations in glutathione concentration, cholinesterase activity and BDNF expression in *substantia nigra pars compacta* in rats with pedunculo-pontine neurotoxic lesion.
6. Estupiñán Díaz B, Lorigados Pedre L, Morales Chacón LM, Baez Martín M, García Maeso I, Fernández Jiménez I, Quintanal Cordero N, Bender del Busto JE (Cuba). Expression of P-glycoprotein (P-gp) in the resected tissue of patients with drug-resistant epilepsy.
7. Valdés-Llerena R (Cuba). Neuropathic pain, interventionism and application of anti-inflammatory therapy.
8. Yanely Real González, Gabriel Martínez Rodríguez, Nancy Pavón Fuentes, Amado Díaz de la FE (Cuba). Speech therapy in person with multiple sclerosis.
9. Grass Fernandez D, Morales Chacon LM, Díaz de la Fe A (Cuba). Quality of life in patient's carriers of multiple sclerosis before and 6 months after administration interferon beta 1a.
10. Ma. Eugenia Lánigan Gutiérrez, Isabel Derrick Duquesne (Cuba). Levels of stress in Cuban patients diagnosed with Systemic Lupus Erythematosus.
11. Noris-García E, Lanigan Gutiérrez ME, Álvarez Contrera Y, Manteci V, Barberia D, Trujillo Y. (Cuba). Antiphospholipid autoantibodies as biomarkers of neuropsychiatric manifestation in systemic lupus erythematosus.



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12. Hernández H. BA (Cuba). Autoimmune neuropathies. Physiopathology review and electrophysiological expression.
13. Miriela Díaz Bringas, Jorge P. Rodríguez Fernández (Cuba). Immunity, nutrition and autism. A case report.
14. Leyani Ramos Hernández, Mabel Whilby Santiesteban, Maria de los Angeles Robinson-Agramonte, Elena Noris García. GeneticS and autism. A report of one case.
15. Mabel Whilby Santiesteban, Leyani Ramos Hernández, Maria de los Angeles Robinson-Agramonte, Elena Noris García Immunology disorders and comorbidities in autism. A report of cases.
16. Hernandez-Betancourt JC, Serrano-Barrera OR (Cuba). Bioinformatic approach to assess molecular mimicry between hepatitis B surface antigen and human neural proteins.
17. Betancourt-Loza M, González-García S, González-Quevedo A, Peña-Sánchez M, Cordero-Eiriz A, Lestayo-O`farril Z, Menéndez-Saíñz MC (Cuba). IgG oligoclonal banding in the CSF for differential diagnosis in Multiple Sclerosis.
18. Peña Sánchez M, González García S, González-Quevedo A, Bringas Sánchez G, García Benavides J, Fernández Almirall I, Arteché Prior M, Maya C, Cordero Eiriz A, Menéndez Saíñz C, Betancourt Loza M, Fernández Carriera R, Gutiérrez N, Barrera I, Peña Nolasco M (Cuba). Inflammatory proteins in acute ischemic stroke patients with different ages.
19. Cordero Eiriz A, Betancourt Loza M, González García S, Peña Sánchez M, González-Quevedo Monteagudo A, Lorigados Pedre L (Cuba). Immunoglobulin G and albumin quantification in the cerebrospinal fluid by modifications in techniques for other biological fluids.
20. Anabel Cepero Rodriguez (Cuba). IgG1 and IgG3 deficiencies in bacterial meningoencephalitis by *Streptococcus pneumoniae*.