The 22nd Biennial Meeting of the ISN/APSN Joint Meeting Taiwan Satellite Conference Novel Strategies for Intervention in Neurodegenerative Diseases

| Sunday (Aug 30) | Monday (Aug 31) | Tuesday (Sept 1) | Wednesday (Sept 2) |
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| | 8:00 - 17:00 Registration | 8:30 – 17:00 Registration | 8:30 – 17:00 Registration |
| | 8:30 – 8:45 Opening ceremony | | |
| | Gibson Wood Andrew HJ. Wang (Vice President of | | |
| | Academia Sinica) | | |
| | Ing-Kang Ho (Vice President of NHRI) | | |
| | Chok-Yung Chai (Director of | | |
| | Foundation of Biomedical Sciences) Yuan-Tsong Chen (Director of IBMS) | | |
| | ruan-Isong Chen (Director of IBMS) | | |
| | 8:45 – 9:00 A tribute to Dr. Lloyd A. | | |
| | Horrocks (1932-2007) Grace Sun | | |
| | 9:00 - 9:45 Chair: <u>Grace Y. Sun</u> | 9:00 - 9:45 Chair: <u>Chung Y. Hsu</u> | 9:00 - 9:45 Chair: Andrew HJ. Wang |
| | Plenary Speaker Nicolas G. Bazan | Plenary Speaker Pak H. Chan | Plenary Speaker Stuart A. Lipton |
| | Nicolas G. Bazan | Session 4 Stroke | Session 7 PD |
| | | Chair: Albert Sun & SZ. Lin | Chair: De-Maw Chuang & FC. Liu |
| | | 9:45 - 10:15 Yau-Huei Wei | 9:45 - 10:15 Jau-Shyong Hong |
| | | National Yang Ming University | National Institute of Environmental |
| | | 10:15 - 10:30 Teng-Nan Lin Academia Sinica | Health Science 10:15 - 10:30 Lung-Sen Kao |
| | | Academia Sinica | National Yang Ming University |
| | 9:45 – 10:15 Break (Photo session) | 10:30 – 10:45 Break | 10:30 – 10:45 Break |
| | Session 1 AD-Mitochondria | Session 4 Stroke (continued) | Session 7 PD (continued) |
| | Chair: <u>Gibson Wood & JG. Chung</u> | 10:45 – 11:15 De-Maw Chuang | 10:45 – 11:15 Zezong Gu |
| | 10:15 – 10:45 Gary Gibson Cornell University | <i>NIH/National Institutes of Mental Health</i> 11:15 - 11:45 Xiao-Ming Xu | University of Missouri 11:15 - 11:45 Jang-Yen Wu |
| | 10:45 - 11:15 Walter Müller | University of Indiana | Florida Atlantic University |
| | University Frankfurt | 11:45 - 12:15 Albert Sun | 11:45 - 12:15 Albert Yu |
| | 11:15 - 11:45 Xiongwei Zhu | University of Missouri | Peking University |
| | Case Western University | 12:15 - 12:30 Alessandro Prinetti | 12:15 - 12:30 Ben Tu |
| | 11:45 - 12:00 Frank Lu National Cheng-Kung University | University of Milan | Academia Sinica |
| | 12:00-12:15 Yi-Hsuan Lee | | |
| | Taipei Medical University | | |
| | 12:15 – 13:00 Lunch | 12:30 – 13:15 Lunch | 12:30 – 13:15 Lunch |
| | | Poster Presentation | Poster Presentation |
| | Poster Presentation | Session 5 Visual Degeneration | Session & Other Neuro Diseases and |
| | Session 2 AD–Ox-Inflam | Session 5 Visual Degeneration Chairs: Joe Hollyfield & CT, Chien | |
| | | Session 5 Visual Degeneration Chairs: Joe Hollyfield & CT. Chien 13:15 - 13:45 Haydee Bazan | Therapy |
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Program at a glance

Outline of Program

Sunday (Aug 30)

17:00 - 19:00 Registration & Reception

Monday (Aug 31)

- 08:00 17:00 Registration
- 08:30 08:45 Opening ceremony
 - Dr. Gibson Wood
 - Dr. Andrew HJ. Wang (Vice President of Academia Sinica)
 - Dr. Ing-Kang Ho (Vice President of NHRI)
 - Dr. Chok-Yung Chai (Director of Foundation of Biomedical Sciences)
 - Dr. Yuan-Tsong Chen (Director of IBMS, Academia Sinica)
- 08:45 09:00 A tribute to Dr. Lloyd A. Horrocks (1932-2007) Grace Sun
- 09:00 09:45 Chair: Grace Y. Sun
 Plenary Speaker 1
 Omega-3 essential fatty acids modulates initiation and progression of neurodegenerative diseases
 Dr. Nicolas G. Bazan
 Professor and director of Neuroscience Center, LSU Health Science Center, New Orleans, LA, USA
- 09:45 10:15 Break (photo session)

Session 1 AD – Mitochondria

Chairs: Gibson Wood & Jing-Gung Chung (China Medical University)

| 10:15 - 10:45 | Diminished metabolism and/or oxidative stress in neurodegenerative | | |
|---------------|--|--|--|
| | diseases, a double edged sword? | | |
| | Dr. Gary E. Gibson | | |
| | Professor of Weill Medical College of Cornell University, Burke | | |
| | Medical Research Institute, White Plains, NY, USA | | |

 10:45 - 11:15 Mitochondrial dysfunction: common domino in brain aging and Alzheimer's disease. Therapeutical aspects
 Dr. Walter E. Müller
 Professor of Dept Pharmacology, Biocenter Univ Frankfurt, Frankfurt, Germany

11:15 - 11:45 Mitochondrial dynamics as a novel therapeutic target for AD Dr. Xiongwei Zhu Associate Professor of Department of Pathology, Case Western Reserve University, Cleveland, Ohio, USA

- 11:45 12:00 Prolyl isomerase Pin1: a potential therapeutic target for Alzheimer's disease
 Dr. Pei-Jung Frank Lu
 Associate Professor of Institute of Clinical Medicine, National Cheng-Kung University, School of Medicine, Tainan, Taiwan
- 12:00 12:15 Dioxin activates the aryl hydrocarbon receptor to regulate NMDA receptor expression and functions in cortical neurons
 Dr. Yi-Hsuan Lee
 Professor and Chairman of Department of Physiology, Taipei Medical University, Taipei, Taiwan









12:15 - 13:00 Lunch (Poster)

Session 2 AD - Ox-Inflam

Chairs: Eric Klann & Julie Y.H. Chan (Kaohsiung Veterans General Hospital)

13:00 - 13:30 iNOS, PHOX & phagocytosis: three axises of inflammatory neurodegeneration Dr. Guy C. Brown Senior lecturer of Department of Biochemistry University of Cambridge, UK

13:30 - 14:00 Preventing aging- and AD-related memory impairments with overexpression of SODs Dr. Eric Klann

> Professor of Center for Neural Science, New York Univ, New York, NY, USA

14:00 - 14:30 Enhancing endogenous soluble receptor for advanced glycation endproducts (sRAGE) as alternative anti-inflammatory treatments for Alzheimer's disease Dr. Lih-Fen Lue Senior Scientist, Head of Lab Neuroinflammation, Sun Health Res Inst., Sun City, AZ, USA

14:30 - 15:00 P2Y₂ nucleotide receptors mediate neuroprotective and neuroinflammatory responses. Sulfatide and Alzheimer's Disease Dr Xianlin Han Associate Professor of Department of Medicine, Washington University, St. Louis, MO, USA









Session 3 AD – Lipids and their Enzymes

Chairs: Franco Goracci & Chun-Kuei Su (IBMS, Academia Sinica)

- 15:15 15:45 Plasmalogen-selective PLA₂ in kainic acid neurotoxicity and Alzheimer disease: A tribute to late Lloyd A. Horrocks
 Dr. Akhlaq A. Farooqui
 Research scientist of Dept Molecular and Cellular Biochemistry, The Ohio State University, Columbus, OH, USA
- 15:45 16:15 Targeting NADPH oxidase and phospholipase A₂ as an intervention strategy for suppressing oxidative-degradative responses in AD Dr. Grace Y. Sun
 Professor of Biochemistry Department, Univ Missouri, Columbia, MO, USA
- 16:15 16:45 Role of low molecular weight phospholipases A₂ in brain functions and dysfunctions
 Dr. Gianfrancesco Goracci
 Professor of Biochemistry Department, Univ Perugia, Perugia, Italy;
 President of the European Society for Neurochemistry
- 16:45 17:15 Regulation of the isoprenoids FPP and GGPP in the brain during aging and in Alzheimer's disease
 Dr. Gunter Eckert
 Senior researcher of Dept Pharmacol, Univ Frankfurt, Frankfurt, Germany
- 18:00 Welcome dinner, Activity Center banquet room (by invitation)







Tuesday (Sept 1)

- 08:30 17:00 Registration
- 09:00 09:45 Chair: Chung Y. Hsu (China Medical University)
 Plenary Speaker 2
 Reperfusion and neurovascular dysfunction in stroke: from basic
 mechanisms to potential strategies for neuroprotection
 Dr. Pak H. Chan
 Professor and Director of Research, Department of Neurosurgery,
 Stanford University School of Medicine, Palo Alto, CA, USA

Session 4 Stroke

Chair: Albert Sun & Shinn-Zong Lin (China Medical University)

09:45 - 10:15 Oxidative stress response elicited by pathogenic mitochondrial DNA mutations: implications in the antioxidant therapy of mitochondrial diseases Dr. Yau-Huei Wei

Professor of Dept Biochem and Molecular Biology,

National Yang Ming Univ; President of Mackay Medical College, Taipei, Taiwan

10:15 - 10:30 Peroxisome proliferator-activated receptor-gamma (PPAR-γ) attenuates ischemic brain injury: mechanisms and clinical perspective Dr. Teng-Nan Lin
 Associate Research Fellow of Institute of Biomedical Sciences (IBMS), Academia Sinica, Taipei, Taiwan





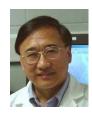


Session 4 Stroke (continued)

- 10:45 11:15 Neuroprotective, neurotrophic and anti-inflammatory actions of mood stabilizers: an update from preclinical studies
 Dr. De-Maw Chuang
 Chief of Section on Molecular Neurobiology, NIMH, NIH, Besthesda, MD, USA
- 11:15 11:45 Neuroprotective and regenerative strategies for the repair of spinal cord injury
 Dr. Xiao-Ming Xu
 Professor and Scientific Director of Spinal Cord and Brain Injury
 Research Group, Indiana University School of Medicine,
 Indianapolis, IN, USA
- 11:45 12:15 Neuroprotective effects of resveratrol: implication for stroke damage
 Dr. Albert Y. Sun
 Professor of Department of Medical Pharmacology and Physiology,
 Univ Missouri, Columbia, MO, USA
- 12:15 12:30 Deregulated sphingolipid metabolism in neurodegenerative disorders:
 lessons from acidic sphingomyelinase knockout mice, an animal model
 for Niemann-Pick disease type A
 Dr. Alessandro Prinetti
 Professor of Biochemistry, Department of Medical Chemistry, Biochemistry
 and Biotechnology, School of Medicine,
 University of Milan, Milan, Italy











Session 5 Visual Degeneration

Chair: Joe Hollyfield & Cheng-Ting Chien (IMB, Academia Sinica)

13:15 - 13:45 Neurotrophins and DHA induce nerve regeneration
Dr. Haydee E. P. Bazan
Professor of Ophthalmology, and Biochemistry and Molecular Biology
and Neuroscience, LSU Health Science Center, New Orleans, LA, USA

13:45 - 14:15 Neuroprotection of the retina through light activation of the insulin receptor

Dr. Robert E. Anderson Professor of Ophthalmology and Cell Biology, The University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA

- 14:15 14:45 A hapten generated from an oxidation fragment of docosahexaenoic acid is sufficient to initiate age-related macular degeneration
 Dr. Joe G. Hollyfield
 Professor of Department of Ophthalmology, Cleveland Clinic Lerner
 College of Medicine of Case Western Reserve University,
 Cleveland, OH, USA
- 14:45 15:00 Is the mitogenic growth factor receptor, EGFR, a plasticity- related protein?
 Dr. Yi-Shuian Huang
 Assistant Research Fellow of Institute of Biomedical Sciences (IBMS), Academia Sinica, Taipei, Taiwan









15:00 - 15:15 Break

Session 6 Receptor-Signal Pathways

Chairs: Gary Weisman & Eminy HY. Lee (IBMS, Academia Sinica)

- 15:15 15:45 The role of Nitric oxide/cGMP signaling in brain aging and experimental model of Alzheimer disease. The effects of selected novel protectants
 Dr. Joanna B. Strosznajder
 Professor and Head of Neurology and Neurochemistry, Dept of Cellular Signaling, Medical Research Center, Polish Academy of Sciences, Warsaw, Poland
- 15:45 16:15 P2Y₂ nucleotide receptors mediate neuroprotective and neuroinflammatory responses
 Dr. Gary A. Weisman
 Professor of Dept Biochem, Univ. Missouri, Columbia, MO, USA
- 16:15 16:45 Membrane Biophysics and Mechanics in Alzheimer's disease
 Dr. James C. Lee
 Associate Professor of Department of Biological Engineering, Univ
 Missouri, Columbia, MO, USA
- 16:45 17:15 Changes in cholesterol metabolome after excitotoxicity
 Dr. Wei-Yi Ong
 Associate Professor of Dept Anatomy, National Univ Singapore,
 Singapore









17:15 - 17:30 Nucleotide receptor P2Y12R and multiple sclerosis: a novel approach to re-myelination
Dr. Jameel Dennis
Post Doctoral Associate of Anatomy and Neurobiology Department,
Virginia Commonwealth University, Richmond, VA, USA

17:30 - 17:45 P2X₇ receptor selective antagonists inhibit growth and viability of neuroblastoma and glioblatoma cells
 Dr. Synthia Hsing-Hsiang Sun
 Professor of Neuroscience Institute, National Yang Ming Univ, Taipei, Taiwan

18:00 - Free night





Wednesday (Sept 2)

08:00 - 17:00 Registration

09:00 - 09:45 Chair: Andrew HJ. Wang (Vice President of Academia Sinica) Plenary Speaker 3
S-nitrosylation/redox signaling mediates protein misfolding and mitochondrial fragmentation in neurodegenerative diseases
Dr. Stuart A. Lipton
Professor and Scientific Director of Burham Center for Neuroscience and Aging, and Stem Cell Research, Burham
Inst for Med Research, La Jolla, CA, USA

Session 7 AD-Receptor

Chairs: De-Maw Chuang & Fu-Chin Liu (National Yang-Ming University)

- 09:45 10:15 Role of inflammation in the pathogenesis of Parkinson's disease
 Dr. Jau-Shyong Hong
 Head of Neuropharmacology Section, National Institute of
 Environmental Health Science (NIEHS), NIH, Research Triangle Park,
 NC, USA
- 10:15 10:30 α -synuclein and Rab3A independently regulate fusion pore dilation of the same population of secretory vesicles in PC12 cells
 Dr. Lung-Sen Kao
 Professor of Dept. of Life Sciences, National Yang-Ming University, Taipei, Taiwan







Session 7 PD (continued)

- 10:45 11:15 Oxidation of the parkin cysteine-rich regions perturbs its E3 ligase
 activity and contributes to parkin aggregation
 Dr. Zezong Gu
 Assistant Professor of Department of Pathology and Anatomical
 Sciences, University of Missouri, Columbia, MO, USA
- 11:15 11:45 Demonstration of efficacy of granulocyte colony-stimulating factor (G-CSF) in Parkinson's disease
 Dr. Jang-Yen Wu
 Professor and Schmidt Senior Fellow of College of Biomedical Science, Florida Atlantic University, FL, USA
- 11:45 12:15 Intrinsic protective proteins: factor to protect us from neural injuryDr. Albert CH. YuProfessor of Neuroscience Research Institute, Peking University, China
- 12:15 12:30 The sequence requirement for TARDBP protein to form inclusions
 Dr. Benjamin Pang-Hsien Tu
 Assistant Research Fellow of Institute of Biomedical Sciences (IBMS),
 Academia Sinica, Taipei, Taiwan

12:30 - 13:15 Lunch (Poster)









IL, USA

Chairs: Michael Collins & Bing-Wen Soong (Taipei Veterans General Hospital)

- 13:15 13:45 Role of neurosteroids and oxidative stress in neurodegeneration: basic knowledge and therapeutic perspectives
 Dr. Anne Eckert
 Professor and head of Neurobiology Lab for Brain Aging and Mental Health, Biomedicine Univ of Basel, Basel, Switzerland
- 13:45 14:15 Binge alcohol-induced neurodegeneration: suppression of underlying neuroinflammatory mechanisms by PLA2 inhibitors or omega-3 polyunsaturated fatty acid, DHA
 Dr. Michael A. Collins
 Professor of Biochemistry, Dept. Cell Biol., Neurobiol. & Anatomy, Loyola University Chicago, Stritch School of Medicine, Maywood,
- 14:15 14:45 Genetic deficiency of RAGE protects against Aβ-mediated synaptic and cognitive deficits and reduces Aβ accumulation in a transgenic mouse model of Alzheimer's disease
 Dr. Shi Du Yan

Professor of Department of Pathology and Surgery, Taub Institute for Research on Alzheimer's disease and Aging Brain, College of Physician and Surgeon, Columbia University, New York, NY, USA

14:45 - 15:00 Targeting astrocytes for the pathogenesis of Hungtington's disease
 Dr. Yijuang Chern
 Research Fellow of Institute of Biomedical Science, Academia Sinica,
 Taiwan









Session 8 Other Neuro-Disease and Therapy (continued)

Chair: Terry BJ. Kuo (National Yang-Ming University)

15:15 - 15:45 A novel mechanism of statin-induced neuroprotection: Endothelin-1
→ NFATc3/4 → Bcl-2
Dr. W. Gibson Wood
Professor and Associate director of Pharmacology Department and GRECC, University of Minnesota, Minneapolis, MN, USA

- 15:45 16:15 Pleiotropic targets in Alzheimer's, rationale for use of Curcumin and DHA based on Alzheimer's models
 Dr. Sally A. Frautschy
 Professor of Medicine and Neurology, VA Medical Center, GRECC, UCLA (Sepulveda, CA) USA
- 16:15 16:30 Effects of valproic acid treatment in spinal muscular atrophy
 Dr. Li-Kai Tsai
 Attending Staff of Department of Neurology, National Taiwan
 University Hospital, Taipei, Taiwan
- 16:30 17:00 Poster Competition Awards

Session 9 Closing Remarks and Future Directions

Moderators: Grace Sun & Gibson Wood

17:00 - 17:30 Panel discussants: Dr. Nicolas Bazan, Dr. Pak Chan, Dr. Stuart Lipton and Dr. GregM. Cole (UCLA)

19:00 - Farewell dinner, San Want Hotel (by invitation)





