

歡迎詞

中華民國基礎神經科學學會

邱麗珠 理事長

中華民國基礎神經科學學會(Neuroscience Society of Taiwan, NST)自 1992 年成立，成立至今已有 26 多年，在過去 12 任理事長與台灣神經科學界前輩們努力下，已經成為台灣引領基礎神經科學研究的一個重要學會。本人和陳易宏教授於去年初自孫以翰理事長與陳儀莊秘書長接棒，深感榮耀及責任重大。學會以促進台灣神經學家在國內與國際間的互動交流為重點推動項目，每年的學會年會和美國神經科學年會(Annual meeting of Society for Neuroscience, SFN2018)舉行 Taiwan Night 是學會的年度大事。

在去年年會，我們採用一個全面以壁報發表為主，口頭簡介為輔，的創新方式，廣邀各會員盛情參與，介紹自己團隊的研究主題，擅長之研究平台與得意之研究成果。希望如此可以讓資深學者驚豔年輕新秀的爆發力與無限可能，並讓青年學子得以一窺前輩先進的厚實底子與獨門功夫，此會議進行方式結果廣受理監事會好評。因此，今年將沿襲同樣方式舉行年會。此外，我們也保留兩時段，給從事神經科學研究的新進的年輕學者有介紹自己及研究的機會。我們也很榮幸請到兩位正值參訪台灣的美國與法國神經科學大師，蒞臨會場演講，精彩可期。

今年的年會，我們獲得腦科學專案研究計畫（腦趴）主持人華瑜與孫以瀚教授的大力支持，與腦趴聯合舉辦，9月29-30日（兩天一夜）於國立成功大學新生科大樓舉行，這要特別感謝學會的理事，成大生命科院簡伯武院長及生命科學系曾淑芬主任慷慨鼎力協助，安排場地事宜。感謝各位會員的熱情參與，踴躍報名，目前報名人數達 144 人，遠遠超過原訂 100 人的目標，也打破歷次腦趴報名參與人數紀錄。目前我們共收到高達 53 個壁報發表，充分讓口頭簡介(research blitz)三個時段擠爆。期盼大家可以進一步在壁報發表時段，有充分時間討論，腦力激盪，進行學術交流。

各位會員的熱情踴躍支持是大會成功的保證，我們還備有國宴級的周氏蝦捲台南小吃，期待大家有一個難忘的神經科學知識與美食饗宴。

NST 2018 年會流程 Meeting Schedule

29 Sept 2018 (Saturday)	
13:00-13:30	Registration
13:30-13:45	Opening Remarks
13:45-14:30	Oral Blitz (I) Session Chair: 清大系神所焦傳金 <i>Prof Chuan-Chin Chiao, Institute of Systems Neuroscience, National Tsing Hua University, Taiwan</i>
14:30-15:30	Poster Presentation (I) /Coffee Break
15:30-16:30	Plenary Speech Title: Conditions for the emergence of Hebbian plasticity in striatum Prof Laurent Venance <i>Center for Interdisciplinary Research in Biology, College de France, Paris</i> Session Chair: 台大腦心所邱麗珠 <i>Prof Lih-Chu Chiou, Graduate Institute of Brain and Mind Sciences, National Taiwan University</i>
16:30-17:15	NST Members' Meeting
17:15-18:00	Oral Blitz (II) Session Chair: 長庚生醫所陳景宗 <i>Prof Jin-Chung Chen, Graduate Institute of Biomedical Sciences, Chang Gung University, Taiwan</i>
18:00-19:00	Dinner
19:00-20:00	Poster Presentation (II)
20:00-21:00	New PI Colloquium Session Chair: 中研生醫所陳志成 <i>Prof Chih-Cheng Chen, Institute of Biomedical Sciences, Academia Sinica, Taiwan</i>
20:00-20:15	1. Title: Naughty or nice: aggression circuits inhibit allogrooming in mice <i>清大系神所郭崇涵 Dr Tsung-Han Kuo, Institute of Systems Neuroscience, National Tsing Hua University</i>
20:15-20:30	2. Title: Exploring movement disorders with electrophysiological approaches <i>台大醫學院潘明楷 Dr Ming-Kai Pan, Medical Research Department, National Taiwan University Hospital</i>
20:30-20:45	3. Title: <i>In vivo</i> electrophysiological recording for the study of time perception in rodent models and color cognition in avian models <i>台大獸醫所蕭逸澤 Dr Yi-Tse Hsiao, School of Veterinary Medicine, National Taiwan University</i>
20:45-21:00	4. Title: Gut microbiota regulate social behavior via stress response pathways in the brain

	成大生理所吳偉立 <i>Dr Wei-Li Wu, Department of Physiology, National Cheng Kung University</i>
21:00	Hotel Check-in, Good Night!

30 Sept 2018 (Sunday)	
09:00-09:15	Hotel Check-out, Good Morning!
09:15-10:00	Oral Blitz (III) Session Chair: 陽明神研所連正章 <i>Prof Cheng-Chang Lien, Institute of Neuroscience, National Yang Ming University, Taiwan</i>
10:00-11:00	Poster Presentation (III) /Coffee Break
11:00-12:00	Plenary Speech Title: The Importance of Activity-Dependent Events in the Brain Prof Moses Chao <i>Skirball Institute of Biomolecular Medicine, New York University School of Medicine, USA</i> Session Chair: 中研院分生所簡正鼎 <i>Prof Cheng-Ting Chien, Institute of Molecular Biology, Academia Sinica, Taiwan</i>
12:15-13:30	Lunch
13:30-14:30	New PI Workshop Session Chair: 成大基醫所許桂森 <i>Prof Kuei-Sen Hsu, Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan</i>
13:30-13:50	1. Title: The interaction between the neural circuits for appetite and for reward 台大腦心所姚皓傑 <i>Dr Hau-Jie Yau, Graduate Institute of Brain and Mind Sciences, National Taiwan University</i>
13:50-14:10	2. Title: Neurophysiology Reimagined 陽明神研所林士傑 <i>Prof Shih-Chieh Lin, Institute of Neuroscience, National Yang Ming University</i>
14:10-14:30	3. Title: MRI Developments for Biomedical Applications 中研生醫所黃聖言 <i>Dr Dennis W Hwang, Institute of Biomedical Sciences, Academia Sinica</i>
14:30	Good Bye!

Oral Blitz & Poster (I) [29 Sept, 13:45-14:30 (Oral), 14:30-15:30 (Poster)]

No	Name	Institution	Title
Session Chair: 焦傳金老師			
Oral 1-3 (9 minutes)	邱麗珠	台灣大學醫學院	A novel pharmacotherapy for neuropsychiatric disorders: GABA-A receptor subtype-selective modulators
Poster 1	李欣蓉		Positively modulating cerebellar 6 subunit-containing GABA-A receptors is beneficial for schizophrenia treatment- animal studies
Poster 2	曾泓叡		An unprecedented role of trigeminal $\alpha 6$ GABA-A receptors in migraine
Poster 3	李鳴達		Electroacupuncture induces analgesia and reverses morphine tolerance via Orexin-initiated Endocannabinoid Disinhibition in the Periaqueductal Gray
Oral 4 (3 minutes)/ Poster 4	陳志成	中央研究院	Somatosensory neuron regeneration and neuropathic pain
Oral 5-6 (6 minutes)/ Poster 5	紀瀚雄 (嚴震東代表)	國立台灣大學	Visualize Nociceptor Changes in Mice with Chronic Constriction Injury Model
Poster 6	李志昌		Longitudinal in vivo imaging of degeneration, sprouting, and regeneration of free nerve endings and nerve fibers in the toes of spared nerve injured mice
Oral 7 (3 minutes)	陳景宗	長庚大學	
Poster 7	吳庭妤		Explore the role of prefrontal-VTA neural circuitry in methamphetamine extinction
Oral 8 (3 minutes)/ Poster 8	林雅婷 (代表陳景宗)		Activation of NPFFR2 leads to hyperalgesia through the spinal inflammatory mediator CGRP in mice

No	Name	Institution	Title
Oral 9 (3 minutes)	陳易宏	中國醫藥大學	
Poster 9	鍾欣怡		Acupuncture reduces bile acid-induced itch in mice
Oral 10 (3 minutes)/ Poster 10	周寧	中國醫藥大學	Molecular mechanisms underlying electrophysiological changes during spreading depolarization
Oral 11 (3 minutes)	陳德祐	國立成功大學	Neurobiology of Learning and Memory under Anesthesia
Poster 11	蕭翔允		The Role of Hippocampus and Amygdala in The Learning of Inhibitory Avoidance Task under Dexmedetomidine-Induced Anesthesia in Rats
Oral 12 (3 minutes)/ Poster 12	孫莉涵 (代表游一龍)	國立成功大學	The impact of the physiological status of social buffering and using airborne oxytocin as a buffering substitute upon newly proliferated cell and proliferative neuroblasts in mouse dentate gyrus
Oral 13 (3 minutes)/ Poster 13	廖昇涵 (代表游一龍)		A vicarious fear conditioning for mimicking the observational learning
Oral 14 (3 minutes)/ Poster 14	蔡昇峰 (代表郭余民)	國立成功大學	Downregulation of Glial Glutamate Transporters in the Hippocampus Contributes to the Pathogenesis of Metabolic Disorder-Associated Depression
Oral 15 (3 minutes)/ Poster 15	呂文心 (代表黃怡萱)	中央研究院	Oral: Translational Control in Synaptic Plasticity and Memory Poster: CPEB2 Activates GRASP1 mRNA Translation and Promotes AMPA Receptor Surface Expression, Long-Term Potentiation, and Memory

Oral Blitz & Poster (II) [29 Sept, 17:15-18:00 (Oral), 19:00-20:00 (Poster)]

No	Name	Institution	Title
Session Chair: 陳景宗老師			
Oral 16-20 (15 minutes)	連正章	國立陽明大學	
Poster 16	周則明		Interrogation of neural circuits underlying chronic migraine in an experimental mouse model
Poster 17	林昱伶		Perturbation of central amygdala neuron excitability reduces pain- & anxiety-like behaviors
Poster 18	Ajibola Musa Iyiola		Differential release of glutamate and GABA onto dentate gyrus cells by the supramammillary hippocampal nucleus
Poster 19	王凱誼		Differential regulation of anxiety and memory formation by dentate mossy cells
Poster 20	Wahab Imam Abdulmajeed		Hilar mossy cells mediate lamella-specific innervation along the hippocampal long axis

Oral 21-23 (6 minutes)	黃智偉	佛光大學	Posttraumatic stress disorder in animal model
	黃智偉		The paradoxical effect hypothesis of abused drugs
Poster 21	林有上		Environmental enrichment alters fear behavior in mice of posttraumatic stress disorder: motor activity vs housing style
Poster 22	盧裕壬		Footshock enhances conditioned place preference induced by morphine in rats
Poster 23	歐貞吟		The paradoxical effect hypothesis of abused drugs: Testing morphine's reward and aversion

Oral 24-26 (9 minutes)	陳慧誠	國家衛生研究院	
Poster 24	李美儀		Betaine reduces the motivation to self-administer ketamine and prevents reinstatement of ketamine-seeking behavior in rats
Poster 25	謝崇斌		Modulation of NMDA Receptor Glycine Binding Site Prevents Acute Toluene-induced Impairments in Recognition Memory and Hippocampal Long-term Potentiation
Poster 26	黃婕敏		N, N-methyl glycine derivatives reduces chronic post-ischemia pain in mice

No	Name	Institution	Title
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Oral 27 (3 minutes)/ Poster 27	林志立	中山醫學大學	Insulin Signalling may be involved in α -synuclein-induced neurotoxicity
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Oral 28 (3 minutes)/ Poster 28	詹銘煥	政治大學	Effects of N-methylated derivatives of glycine on recombinant NMDA receptors expressed in HEK293 cells
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Oral 29-33 (3 minutes only, will present together in 1 slot)/ Poster 29	Pavithra Suresh (代表劉怡均)	慈濟大學	The Role of protein citrullination in development of pathological hallmarks in Alzheimer's disease mouse model
Poster 30	Sarayut Phasuk		The role of Peroxyredoxin6 in formation of trace fear memory
Poster 31	梁紹峯		Association of autistic behavior of the Cav3.2 knockout mice and GABA-related molecules
Poster 32	Peeraporn Varinthra		The compound E411 suppresses expression of inflammatory cytokines in amyloid beta oligomer treated ARPE-19 cells
Poster 33	Tanita Pairojana		The Effect of Centella Asiatica Extract on Memory Formation in Alzheimer's Disease Mouse Model

Poster only (Presentation slot: 29 Sept, 1900-2000)			
Poster 48	廖柏喻	國立臺灣大學	Light modulates social behavior in mice through ipRGCs and oxytocin
Poster 49	李亦騏		Transcriptome analysis of environmental light modulated intestinal metabolic pathway
Poster 50	盧從浩		Light regulates gut microbiome composition and rhythmicity through ipRGCs
Poster 51	沈久倫		Labeling the Dorsal Root Ganglion (DRG) Neurons in Neuropathic Pain Mouse Model

No	Name	Institution	Title
Poster 52	劉家瑋 (代表謝宜蕙)	國立中央大學	A nonlinear approach to musical timbre processing using ensemble empirical mode decomposition.
Poster 53	熊明珩 (代表胡書榕)	國立成功大學	Involvement of different signaling pathways in mouse hippocampus in the modulatory effects of rottlerin and MK-801 on inhibitory avoidance memory

Oral Blitz & Poster (III) [30 Sept, 09:15-10:00 (Oral), 10:00-11:00 (Poster)]

No	Name	Institution	Title
Session Chair: 連正章老師			
Oral 34 (3 minutes)	焦傳金	國立清華大學	Activity dependent axon regeneration of retinal ganglion cells
Poster 34	林晉億		Blue light promotes neurite outgrowth of retinal explants in postnatal ChR2 mice
Oral 35-36 (6 minutes)	蔡金吾	國立陽明大學	
Poster 35	劉臻		The Functions of a Novel Forkhead Box Domain Protein in Neural Development and Its Role in Focal Cortical Dysplasia.
Poster 36	鄭皓元		The role of a novel BICD2 mutation K775X in brain development and lissencephaly
Oral 37 (3 minutes)/ Poster 37	葉佳瑜	University of North Carolina at Chapel Hill	Mossy cell regulates neural stem cell activity through the balance between direct and indirect pathways
Oral 38 (3 minutes)/ Poster 38	黃奕傑 (代表陳摘文、林貝容)	國立陽明大學	Oral: Observing the cellular mechanism of brain oscillations using fluorescent voltage indicator Poster: Analyzing the factors that determine the quality of in vivo voltage imaging
Oral 39-43 (15 minutes)	羅中泉	國立清華大學	From fruit fly brains to integrative AI -- Decoding the computational principles of the tiny insect brains.
Poster 39	韓睿		Short-term spatial memory and cognitive manipulate process in untrained Drosophila Melanogaster
Poster 40	黃宣霈		How does a fruit fly maintain its spatial orientation? -- A neural circuit model of the central comple
Poster 41	Alexander White		Reducing Numerical Simulation Complexity of Morphologically Detailed Drosophila Neurons.
Poster 42	劉沛弦		Diverse Dynamics in Small Networks: A Case Study pf Coupled Recurrent Circuits

No	Name	Institution	Title
Poster 43	強敬哲		Identifying neurons among different individual brains
Oral 44 (3 minutes)/ Poster 44	曾淑芬	國立成功大學	Extrinsic and intrinsic molecules in the regulation of oligodendrocyte maturation
Oral 45 (3 minutes)	陳珮君	國立成功大學醫學院	Effects of KATP channel blocker on metabolism-induced mood disorder
Poster 45	郭宜盈		
Oral 46 (3 minutes)/ Poster 46	吳東川	中國醫藥大學	The enhanced desensitization of Glycine receptor links to human startle disease
Oral 47 (3 minutes)/ Poster 47	張邵涵 (代表徐百川)	中央研究院	The Temporal Profiling of Traumatic Stress Related Fear Memory Retrieval by Electroencephalography (EEG) in a Rat Model of Post-Traumatic Stress Disorder