New Academic Chair for Neuroscience ACP

Associate Professor Ng Wai Hoe has been appointed to the new role of Academic Chair of the SingHealth Duke-NUS Neuroscience ACP. Assoc Prof Ng will also take over as the new Medical Director of NNI from Professor Lee Wei Ling, who has served both roles with dedication. He will commence both roles with effect from 1 January 2015.

“As I embark on my new role, I would like to express my gratitude to Prof Lee Wei Ling for her strong leadership over the past 11 years which has placed NNI in an excellent position. Prof Lee has always fought for the interest of our staff and ensured that patient welfare is paramount. Personally, I am grateful for her mentorship and trust. While there are certainly challenges ahead, I am quietly confident that Team NNI has the talent and resolve to make NNI a great place for caring, learning and trailblazing.”

Assoc Prof Ng Wai Hoe
Academic Chair, Neuroscience Academic Clinical Program

Advancing Patient Care and Transforming Healthcare

With the introduction of Neuroscience ACP in 2012, it has been NNI’s vision to improve the lives of patients through excellent clinical care, teaching and research. Through the strategic partnership with Duke-NUS, NNI has evolved to be an Academic Medical Centre, using its talent pool of clinicians and researchers and establishing an enriching culture of collaborations. Our collaborative efforts in clinical care, research, and education have contributed to the improvement of patient care and outcomes, as well as the healthcare system.

The next page showcases the achievements and establishments that NNI has seen in the past years.
THE JOURNEY SO FAR

Patient Care

- Operation of Tele-stroke Services based on the Hub & Spoke model
- NNI’s First Quality Day
- Advanced Practice Nurse (APN) Clinics for Parkinson Disease and Stroke
- Integrated Community Care Programme (ICCP)
- Surgical Neuromodulation Pain Programme
- New Ultrasound Machine for Advanced Treatments
- 3D Software to Rehabilitate Stroke & Early Dementia Patients
- Young Onset Cognitive Impairment (YOCI) Programme
- NNI-SHP CARE (Cognitive Assessment & Rehabilitation) Programme
- Support Groups for Peer-to-Peer Care

Education

- Development of the Neurology Senior Residency Training Guide
- NNI’s First Education Day
- Designation of NNI as a World Federation of Neurosurgical Society (WFNS) International Training Centre for Young Neurosurgeons
- Key Conferences for Academic Learning and Development
- Neuroscience Nursing Seminar for Professional Improvement
- Award Achievements for Neuroscience ACP Educators from the Yong Loo Lin School of Medicine, National University of Singapore

Research

- Clinical Research Studies on Stroke Treatment and Prevention
- NNI’s First Research Day
- Award Recognition for Junior Researchers
- NNI Publish! Award for Research Publications by Clinician Researchers and Basic & Translational Scientists
- Neuro-oncology Research Collaboration with Lilly Singapore Centre for Drug Discovery (LSCDD)
- Formation of National Neuroscience Research Institute Singapore (NNRIS)
- Discoveries: Green Tea Aid against Parkinson Disease (Collaboration with NUS)
- Novel Function of Protein Linked to Alzheimer’s Disease (Collaboration with NUS and SICS)
Cancer scientists’ brainwave

Four bag Singapore’s top award for nurses

Don’t fall for miracle cures

National Neuroscience Research Institute Singapore launched

Forging critical connections

Know stroke signs for health’s sake

S’pore researchers zoom in on culprit behind Alzheimer’s

People and passion behind Parkinson’s disease research

In the News 2014
Upcoming Events in 2015

<table>
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<tr>
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<th>Event</th>
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<tbody>
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<td>6 February</td>
<td>Neuroscience ACP Research Day</td>
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<td>21 March</td>
<td>My Stroke Journey Public Forum</td>
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<td>26 - 28 March</td>
<td>4th Singapore International Neurocognitive Symposium</td>
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<td>9 - 10 April</td>
<td>The 1st NNI Glioma Fluorescence Seminar</td>
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<td>11 April</td>
<td>Parkinson Disease Public Forum</td>
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Grants: October – December 2014

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<th>Type of Grant</th>
<th>Name</th>
<th>Department</th>
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<tr>
<td>A*STAR Biomedical Engineering Programme (BEP)</td>
<td>Adjunct Instructor</td>
<td>Neurosurgery</td>
<td>Ultrasound Catheter-based Minimally Invasive Sonothrombolysis for Haemorrhagic Stroke.</td>
</tr>
</tbody>
</table>

Publications: October – December 2014

- **Renal Dysfunction Contributes to Episodic Memory Deficits and Medial Temporal Atrophy in Alzheimer’s Disease: A Pilot Study**
  Ng A, Jion Yi, Ziain NH, Kandiah N.
  IF 4.216

- **Deciphering the Function and Regulation of microRNAs in Alzheimer’s Disease and Parkinson’s Disease**
  Qiu L, Zhang W, Tan EK, Zeng L.
  IF 4.21

- **Differing Associations of White Matter Lesions and Lacunar Infarction with Retinal Microvascular Signs**
  IF 4.029

- **Baseline Characteristics and Treatment Response of Patients from the Philippines in the CHIMES Study**
  Navarro JC, Gan HH, Lao AY, Baroque AC 2nd, Hyadan JH, Chua CL, San Jose MC, Advincula JM, Lee CF, Bousser MG, Chen CL; CHIMES Study Investigators. (Chang HM, De Silva DA)
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- **Use of Programmable versus Nonprogrammable Shunts in the Management of Hydrocephalus Secondary to Aneurysmal Subarachnoid Haemorrhage: A Retrospective Study with Cost-benefit Analysis**
  Lee L, King NK, Kumar D, Ng YP, Rao J, Ng H, Lee KK, Wang E, Ng I.
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- **The Quest to Prevent Stroke in Atrial Fibrillation: Fighting the Fluttering Heart in Singapore.**
  Sethi NK, Goh OQ, Lai G, Tu TM, Lee KE.
  Neurology. 2014 Nov;83(22):2099.
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- **Global Investigation and Meta-analysis of the C9orf72 (G4C2)n Repeat in Parkinson Disease.**
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- **CACNA1C Genomewide Supported Psychosis Genetic Variation Affects Cortical Brain White Matter Integrity in Chinese Patients with Schizophrenia.**
  Woon PS, Sum MY, Kuswanto CN, Yang GL, Sitoh YY, Soong TW, Lee TS, Nowinski WL, Sim K.
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- **Hippocampal Volume and White Matter Disease in the Prediction of Dementia in Parkinson Disease.**
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  IF 4.126
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Tan K, Tan NC, Kandiah N, Samarasekera D, Ponnampetuma G.
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A Monolithically Integrated Pressure Oxygen Temperature Sensing SoC for Multimodality Intracranial Neuromonitoring.
Wai Pan Chan; Narducci, M.; Yuan Gao; Ming-Yuan Cheng; Jia Hao Cheong; George, A.K.; Daw Don Cheam; Siew Chong Leong; Damalerio, M.R.B.; Ruiqi Lim; Ming-Ling Tsai; Rahman, A.R.A.; MKyoung Park; Zhi Hui Kong; Prashanth, R.J.; Minkyu Je.
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Polyetheretherketone Implants for the Repair of Large Cranial Defects: A 3-center Experience.
Rosenthal G, Ng I, Moscovici S, Lee KK, Lay T, Martin C, Manley GT.
IF 3.031

Complement Regulatory Proteins (CD46, 55 and 59) Expressed on Schwann cells: Immune Targets in Demyelinating Neuropathies?
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IF 2.786

Unprofessional Doctors - Are They Really Born This Way?
Ong CC, Tan NC.
IF 1.221

Palliative Surgery for Cervical Spine Metastasis.
Rao JP, Tiruchelvarayan R, Lee L.
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An Unusual Presentation of Primary Malignant B-cell-type Dural Lymphoma.
Low YYS, Lai SH, Ng WH.
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Subcortical Atrophy is Associated with Cognitive Impairment in Mild Parkinson Disease: A Combined Investigation of Volumetric Changes, Cortical Thickness, and Vertex-based Shape Analysis.
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Damodaran T, Hasan Z, Navarabnam V, Muzaimi M, Ng G, Müller CP, Lao P, Dringenberg HC.
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Diffusion Tensor Imaging Studies in Late-life Depression: Systematic Review and Meta-analysis.
Wen MC, Steffens DC, Chen MK, Zainal NH.
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Yap MY, Lo YL, Talbot K, Ong WY.
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Reversible Metronidazole-induced Subacute Cerebellar Syndrome.
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Posterior Fossa Duralarteriovenous Fistula Presenting Clinically as a Carotid-cavernous Fistula Treated by a Direct Access Cavernous Sinus Approach.
Tan AP, Taneja M, Hui F.
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Clinical Validation and Implications of Dried Blood Spot Sampling of Carbamazepine, Valproic Acid and Phenytoin in Patients with Epilepsy.
Kong ST, Lim SH, Lee WB, Kumar PK, Wang HY, Ng YL, Wong PS, Ho PC.
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Value of Routine Early Post-operative Computed Tomography in Determining Short-term Functional Outcome after Drainage of Chronic Subdural Hematoma: An Evaluation of Residual Volume.
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IF 0