Satellite Meeting in Singapore

Nutraeuticals in Neurodegeneration and Aging

Meeting Report

20th – 21st August 2015
Centre for Life Sciences,
National University of Singapore
28 Medical Drive, Singapore 117456

Jointly Organized with Singapore Neuroscience Association, Neurobiology and Ageing Research Programme NUS, and Department of Anatomy, Yong Loo Lin School of Medicine, National University of Singapore
1. Basic information (title of the meeting, dates, organizer, venue, etc.)

Title of the meeting


Dates

20 – 21 August 2015

Organizers

Wei-Yi Ong, Grace Y. Sun, W. Gibson Wood, Teng-Nan Lin

Venue

National University of Singapore

Registration and registration fees (what was included)

Registration fee was set at 50% of the main ISN conference in Cairns, Australia, i.e. US$150 for ISN members, and US$75 for students (early bird rates).

It included:

Free shuttle bus to the conference venue,

Goodie bag with abstract book and writing materials.

Two tea/coffee breaks and a lunch for each of the two days of the conference.

Gala dinner on the second day of the conference.
# Programme

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Venue and Speaker</th>
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</thead>
<tbody>
<tr>
<td><strong>Wednesday 19th August 2015</strong></td>
<td>Reception For Invited Speakers, Chairmen Of Symposia, And Organizing Committee Meet at Lobby of Bay Hotel, Singapore, at 5.30pm</td>
</tr>
<tr>
<td><strong>Thursday 20th August 2015</strong></td>
<td>Venue: Centre for Life Sciences, National University of Singapore, Singapore 117456 Session I. Nutraceuticals in Stroke and Dementia</td>
</tr>
<tr>
<td>7.30 -8.00am</td>
<td>Registration and Poster Setup</td>
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<tr>
<td>8.00-8.30am</td>
<td><strong>Welcome and Opening Remarks</strong></td>
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<tr>
<td></td>
<td>Guest of Honor&lt;br&gt;Prof. Yeoh Khay Guan&lt;br&gt;Dean, Yong Loo Lin School of Medicine&lt;br&gt;National University of Singapore&lt;br&gt;Wei-Yi Ong&lt;br&gt;Chairman of International Organizing Committee</td>
</tr>
<tr>
<td>8.30 – 9.10am</td>
<td><strong>Plenary Lecture 1</strong>&lt;br&gt;Botanical Polyphenols and Brain Health: A Tribute to Professor Albert Sun&lt;br&gt;Grace Y. Sun&lt;br&gt;University of Missouri&lt;br&gt;Chair: Deron R Herr</td>
</tr>
<tr>
<td>9.10 – 9.50am</td>
<td><strong>Plenary Lecture 2</strong>&lt;br&gt;Role of Polyphenols in Promotion of Healthy Brain Aging and Alzheimer’s Disease Preventative Initiatives&lt;br&gt;Giulio Pasinetti&lt;br&gt;New York, USA&lt;br&gt;Chair: Deron R Herr</td>
</tr>
<tr>
<td>9.50 – 10.20am</td>
<td>Tea Break and Poster Viewing</td>
</tr>
<tr>
<td>10.20–11.00am</td>
<td><strong>Plenary Lecture 3</strong>&lt;br&gt;An Evolutionary Perspective of Why Plant ‘Toxins’ Bolster Brain Health&lt;br&gt;Mark Mattson&lt;br&gt;National Institute on Aging, USA&lt;br&gt;Chair: Thiruma Arumugam</td>
</tr>
<tr>
<td>11.00-11.30am</td>
<td>Green Tea Catechins and AMP Kinase In Parkinson’s Disease&lt;br&gt;Kah-Leong Lim&lt;br&gt;National Neuroscience Institute, Singapore&lt;br&gt;Chair: Gavin S. Dawe</td>
</tr>
<tr>
<td>11.30-12.00pm</td>
<td>PPAR-gamma Attenuates Oxidative-Inflammatory Damage In Acute Ischemic Stroke: Role Of Herbal Plants&lt;br&gt;Teng-Nan Lin&lt;br&gt;Academia Sinica, Taiwan&lt;br&gt;Chair: Gavin S. Dawe</td>
</tr>
<tr>
<td>12.00-1.00pm</td>
<td>Lunch and Poster Viewing</td>
</tr>
<tr>
<td>1.00-1.40pm</td>
<td><strong>Plenary Lecture 4</strong>&lt;br&gt;Neuroprotective Effect Of Wolfberry (Gouqizi) On Neurodegenerative Diseases&lt;br&gt;Kwok-Fai So&lt;br&gt;University of Hong Kong, China&lt;br&gt;Chair: Teng-Nan Lin</td>
</tr>
<tr>
<td>1.40 –2.20pm</td>
<td><strong>Plenary Lecture 5</strong>&lt;br&gt;Development of Novel Herbal Drugs for Treating Ischemic Stroke Based on Differential Mechanisms of Glutamate Receptor Subtypes&lt;br&gt;Chung Y. Hsu</td>
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<tr>
<td>Time</td>
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<tr>
<td>2.20 – 2.50pm</td>
<td>Tea Break and Poster Viewing</td>
</tr>
</tbody>
</table>
| 2.50–3.20pm | Phytoestrogens or Estrogen Modulate Synaptic Plasticity via Genomic and Non-genomic Actions  
Sukumal Chongthammakun  
Mahidol University, Thailand  
Chair: Hu Qidong |
| 3.20 – 3.50pm | Neurological role of Germinated Brown Rice  
Supin Chompoopong  
Mahidol University, Thailand  
Chair: Hu Qidong |
| 3.50-4.20pm | **Young Investigator Award Lecture**  
Rice Bran Extract For The Prevention Of Neurodegeneration In Aging  
Stephanie Hagl And Gunter P. Eckert  
University of Frankfurt, Germany  
Chair: Hu Qidong |
| 4.20 – 4.50pm | Nutraceuticals for Preventing Neurodegeneration and Enhancing Neurogenesis in Neuropsychological Disorders  
Jintanaporn Wattanathorn  
Khon Kaen University, Thailand  
Chair: Hu Qidong |
| 4.50 – 5.20pm | Fresh Medicinal Plants In South East Asia: An Overview And Survey Of Usage  
Hwee-Ling Koh  
National University Of Singapore  
Chair: Hu Qidong |
| 5.20pm – 5.50pm | Ginsenoside Rg2 Suppresses Microglial Activation and Reduces Production of Inflammatory Cytokines  
Lu Di  
Kunming Medical University  
Chair: Hu Qidong |
| 5.50pm – 6.00pm | Group Photo |
| 6.00–10.00pm | Night Excursion for Invited Speakers and Chairmen of Symposia (Gardens by the Bay) |

**Friday 21th August 2015**  
Venue: Centre for Life Sciences, National University of Singapore, Singapore 117456  
Session II. Nutraceuticals in Neurodegenerative Diseases

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8.00-8.30am</td>
<td>Registration</td>
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</tbody>
</table>
| 8.30-9.10am | **Pio del Rio Hortega Award (Gold)**  
**Plenary Lecture 6**  
Scutellarin Regulates The Notch Pathway And Affects Migration And Morphological Transformation Of BV-2 Cells And Activated Microglia In Rats After Cerebral Ischemia  
Eng-Ang Ling  
National University of Singapore  
Chair: Deron R Herr |
| 9.10-9.40am | **Pio del Rio Hortega Award**  
Potential drugs and herbal compounds attenuating microglia-mediated neuroinflammation  
S Thameem Dheen  
National University of Singapore  
Chair: Deron R Herr |
| 9.40-10.10am | Basic And Clinical Studies Of Sutherlandia Frutescens (L.) R. Br., A South African Medicinal Plant Used For Stress Resilience.  
William Folk |
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Institution</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.10 –10.40am</td>
<td>Tea Break</td>
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<tr>
<td>10.40-11.10am</td>
<td>Botanicals And Neuroinflammation: Omics Studies On Microglial Resiliency</td>
<td>Zezong Gu</td>
<td>University of Missouri, USA</td>
<td>Chair: Charanjit Kaur</td>
</tr>
<tr>
<td>11.10 – 11.40am</td>
<td><strong>Young Investigator Award Lecture</strong> cPLA2 As A Novel Therapeutic Target For Botanicals Against Microglia-Induced Secondary Neuronal Damage</td>
<td>Dennis Chuang Y</td>
<td>University of Missouri, USA</td>
<td>Chair: Eyleen Goh</td>
</tr>
<tr>
<td>11.40– 12.10pm</td>
<td>Green Tea Ameliorates Learning And Memory Deficits In Ischemic Stroke By Modulation Of Neuroinflammation</td>
<td>Yuh-Fung Chen</td>
<td>China Medical University, Taiwan</td>
<td>Chair: Eyleen Goh</td>
</tr>
<tr>
<td>12.10-1.10pm</td>
<td>Lunch</td>
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<tr>
<td>1.10 –1.50pm</td>
<td><strong>Plenary Lecture 7</strong> The Effects Of Nutrition On Cognition And Motor Function In Aging</td>
<td>Barbara Shukitt-Hale</td>
<td>Tufts University, USA</td>
<td>Chair: Sukumal Chongthammakun</td>
</tr>
<tr>
<td>1.50-2.30pm</td>
<td><strong>Plenary Lecture 8</strong> The Wanderings Of A Free Radical – Assessing Antioxidants And Their Impact On Health And Disease</td>
<td>Barry Halliwell</td>
<td>National University of Singapore</td>
<td>Chair: Sukumal Chongthammakun</td>
</tr>
<tr>
<td>2.30-3.00pm</td>
<td>Tea Break</td>
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<tr>
<td>3.00 – 3.30pm</td>
<td>Differential Distribution and Function of Brain Phospholipases A2 Isoforms</td>
<td>Wei-Yi Ong</td>
<td>National University of Singapore</td>
<td>Chair: Supin Chompoopong</td>
</tr>
<tr>
<td>3.30 – 4.00pm</td>
<td>Role Of Nutrition In Brain Development And Disease</td>
<td>Eyleen Goh</td>
<td>DUKE NUS, Singapore</td>
<td>Chair: Supin Chompoopong</td>
</tr>
<tr>
<td>4.00-4.30pm</td>
<td><strong>Plenary Lecture 9</strong> Synaptogenesis: Modulation By Availability Of Phosphatide Precursors</td>
<td>Mehmet Cansev</td>
<td>Uludag University, Bursa, Turkey</td>
<td>Chair: Supin Chompoopong</td>
</tr>
<tr>
<td>4.30 -5.00pm</td>
<td><strong>Summary and Future Directions Poster Award Presentation</strong></td>
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<tr>
<td>5.00 – 7.00pm</td>
<td>Dinner (All Participants are Welcome).</td>
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<td></td>
<td><strong>Saturday 22nd August 2015 Post-Conference Tour</strong></td>
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</tbody>
</table>
3. Speakers and Chairmen

Grace Y. Sun (Plenary Speaker)
Department of Biochemistry
University of Missouri
Columbia, MO 65211, USA
E-mail: SunG@missouri.edu
New insights for botanical polyphenols to provide anti-oxidative and anti-inflammatory effects in microglial cells

Giulio Maria Pasinetti (Plenary Speaker)
Department of Neurology and Friedman Brain Institute
Icahn School of Medicine at Mount Sinai
Bronx, NY, USA
E-mail: Giulio.Pasinetti@mssm.edu
Role of polyphenols in promotion of healthy brain aging and Alzheimer’s disease preventative initiatives

Deron R Herr (Chairman)
Department of Pharmacology
National University of Singapore
Singapore 119260
E-mail: phcdrh@nus.edu.sg

Mark P. Mattson (Plenary Speaker)
Laboratory of Neurosciences
Biomedical Research Center, 05C214
251 Bayview Boulevard, Suite 100
Baltimore, MD 21224-6825, USA
E-mail: mattsonm@grc.nia.nih.gov
An evolutionary perspective of why plant ‘toxins’ bolster brain health

Thiruma Arumugam (Chairman)
Department of Physiology
National University of Singapore
Singapore 119260
E-mail: phstva@nus.edu.sg

Kah-Leong Lim
Department of Physiology
National University of Singapore
Singapore 119260
E-mail: phsikl@nus.edu.sg
Green tea catechins and AMP kinase in Parkinson’s disease

Teng-Nan Lin
Institute of Biomedical Sciences
Academia Sinica,
Taipei, Taiwan
E-mail: bmltn@ibms.sinica.edu.tw
PPAR-γ attenuates oxidative-inflammatory damage in acute ischemic stroke: role of herbal plants

Gavin Dawe (Chairman)
Department of Pharmacology
National University of Singapore
Singapore 119260
E-mail: gavin_dawe@nuhs.edu.sg
Kwok-Fai So (Plenary Speaker)
Department of Anatomy
University of Hong Kong, China
E-mail: hrmaskf@hku.hk
Neuroprotective effect of wolfberry (gouqizi) on neurodegenerative diseases

Chung Y. Hsu (Plenary Speaker)
Graduate Institute of Clinical Medical Science
China Medical University
Taiwan
E-mail: hsuc@mail.cmu.edu.tw
Development of novel herbal drugs for treating ischemic stroke based on differential mechanisms of glutamate receptor subtypes

Sukumal Chongthammakun
Department of Anatomy
Faculty of Science
Mahidol University
Bangkok, Thailand
E-mail: sukumal.chong@gmail.com
Phytoestrogens or estrogen modulate synaptic plasticity via genomic and non-genomic actions

Supin Chompoopong
Department of Anatomy
Faculty of Medicine Siriraj Hospital
Mahidol University, Bangkok, Thailand
E-mail: sukumal.chong@gmail.com
Neurological role of germinated brown rice

Stephanie Hagl (Young Investigator Awardee) and Gunter P. Eckert
Department of Pharmacology
Goethe-University
D-60438 Frankfurt, Germany
E-mail: hagl@em.uni-frankfurt.de
Rice bran extract for the prevention of neurodegeneration in aging

Samuel SW Tay (Chairman)
Department of Anatomy
National University of Singapore
Singapore 119260
E-mail: samuel_tay@nuhs.edu.sg

Jintanaporn Wattanathorn
Department of Physiology
Khon Kaen University, Thailand
E-mail: jintanapornw@yahoo.com
Nutraceuticals for preventing neurodegeneration and enhancing neurogenesis in neuropsychological disorders

Hwee-Ling Koh
Department of Pharmacy
National University of Singapore
E-mail: phakohhl@nus.edu.sg
Fresh medicinal plants in South East Asia: an overview and survey of usage
Lu Di  
Faculty of Basic Medical Sciences  
Kunming Medical University  
Kunming, China  
E-mail: ludi20040609@126.com  
Role of effects of gastrodin from Tien Ma and rg2 from ginseng on microglial signaling

Hu Qidong (Chairman)  
Department of Anatomy  
National University of Singapore  
Singapore 119260  
E-mail: anthq@nus.edu.sg

Eng-Ang Ling (Plenary Speaker)  
Department of Anatomy  
National University of Singapore  
Singapore 119260  
E-mail: antlea@nus.edu.sg  
Scutellarin regulates the notch pathway and affects migration and morphological transformation of bv-2 cells and activated microglia in rats after cerebral ischemia

S Thameem Dheen  
Department of Anatomy  
National University of Singapore  
Singapore 119260  
E-mail: antstd@nus.edu.sg  
Potential drugs and herbal compounds attenuating microglia-mediated neuroinflammation

Charanjit Kaur (Chairman)  
Department of Anatomy  
National University of Singapore  
Singapore 119260  
E-mail: charanjit_kaur@nuhs.edu.sg

William Folk  
Department of Biochemistry  
University of Missouri  
Columbia, MO 65211, USA  
E-mail: FolkW@missouri.edu  
Basic and clinical studies of *Sutherlandia frutescens* (L.) R. Br., a South African medicinal plant used for stress resilience.

Zezong Gu  
Department of Anatomy and Pathological Sciences  
University of Missouri  
Missouri, USA  
E-mail: guze@health.missouri.edu  
Botanicals and neuroinflammation: omics studies on microglial resiliency

Dennis Chuang Y (Young Investigator Awardee)  
University of Missouri  
Missouri, USA  
E-mail: dycd45@health.missouri.edu  
cPLA2 as a novel therapeutic target for botanicals against microglia-induced secondary neuronal damage

Yuh Fung Chen
Graduate Institute of Basic Medical Science
China Medical University
Taiwan
E-mail: yfchen_cmos@yahoo.com
Green tea ameliorates learning and memory deficits in ischemic stroke by modulation of neuroinflammation

Barbara Shukitt-Hale (Plenary Speaker)
Neuroscience and Aging Laboratory
Tufts University
USA
E-mail: Barbara.ShukittHale@ars.usda.gov
The effects of nutrition on cognition and motor function in aging

Barry Halliwell (Plenary Speaker)
Department of Biochemistry
National University of Singapore
Singapore 119260
E-mail: bchbh@nus.edu.sg
The wanderings of a free radical – assessing antioxidants and their impact on health and disease

Wei-Yi Ong
Department of Anatomy
National University of Singapore
Singapore 119260
E-mail: wei_yi_ong@nuhs.edu.sg
Differential distribution and function of brain phospholipase a2 isoforms

Eyleen Goh
Neuroscience & Behavioral Disorders Program
DUKE-NUS Graduate Medical School
Singapore
E-mail: Eyleen.goh@duke-nus.edu.sg
Role of nutrition in brain development and disease

Mehmet Casev (Plenary Speaker)
Uludag University, Bursa, Turkey
E-mail: mcansev@uludag.edu.tr
Synaptogenesis: modulation by availability of phosphatide precursors

W. Gibson Wood
Department of Pharmacology
University of Minnesota
Minneapolis, MN 55455-0217, USA
E-mail: woodx002@umn.edu
Summing up and future directions
4. Plenary Speakers

Grace Y. Sun
Giulio Pasinetti
Mark P. Mattson
Kwok-Fai So
Chung Y. Hsu
Eng-Ang Ling
Barbara Shukitt Hale
Barry Halliwell
Mehmet Cansev

5. Highlights of the Meeting

Theme of conference, venue and participants

The theme of this meeting was to explore mechanisms of nutraceuticals to combat against aging and neurodegenerative diseases including Alzheimer’s disease, Parkinson’s disease and stroke. The venue was the Centre for Life Sciences, National University of Singapore. There were more than 150 participants (including students) from over 20 countries - USA, Germany, Turkey, China, Taiwan, Thailand and Singapore. The three-day program consisted of 3 topic sessions, 9 plenary speakers, oral presentations, and 20 poster presentations. Two chairmen of symposia also served as poster judges with three outstanding presenters receiving poster awards.

Meeting organization and support

Besides support by ISN and APSN, the symposium was supported by local organizations including the Lee Foundation Singapore. In addition, local companies also bought advertisement space in the abstract book and exhibition booths as well as provided conference materials. The National University of Singapore provided conference venue. The NUS team headed by A/Prof. Wei-Yi Ong and Ms. Clare Peng carried out fundraising and logistics for the conference. The talks were exciting and well organized. Both young investigators did a superb job in their presentations. The presentations were coherent and presented a consistent story, with different shades of opinion. This symposium facilitated a Skype lecture delivered by Dr. Mark Mattson who hurt his back days before the meeting. This was truly a satellite lecture well presented to a full audience.

Conference proceedings

A conference proceeding was printed for all participants. The proceeding included listing of program, short bio for all speakers, abstracts for speakers and posters, advertisements, and mailing information for all participants.

Social

There were good interactions among speakers and participants at the meeting. At the end of the first day, tickets were provided to speakers to visit Gardens by the Bay. The pre-conference reception turned out to be a formal sit-down dinner. Non-vegetarian and vegetarian foods were prepared in a Halal manner to fit the diversity of participants. The only negative comment was not enough space to sit down to enjoy the food at the gala dinner.

Post conference tour
A post-conference tour was arranged on Saturday and visits included the Singapore Botanic Gardens, National Orchid Gardens, and City Tour on an amphibious vehicle with a unique view of the city from Marina Bay reservoir. Lunch included a taste of local foods and shopping at Suntec City. In the afternoon, the group went on to visit South East Asia Aquarium at Sentosa Island, and had dinner at Jumbo seafood restaurant in East Coast next to the beach. In the evening, Grace Sun, Zezong Gu and Wei-Yi Ong had a short debriefing.

Follow up

In September, Grace, Gibson I Wood, Teng-Nan Lin and Wei-Yi Ong conducted a skype meeting to review the event and discussed feedbacks from participants. The feedbacks were very positive. Many participants commented about benefits from the meeting, and would like to have future conferences along the same line.

Discussion was also conducted with regard to accepting the invitation by Prof. Mark Mattson (USA) to publish the proceedings of the meeting in a special issue of NeuroMolecular Medicine. A guest editing committee was formed and letter was sent to solicit titles of articles.

Participants

More than 150 participants from many parts of the world including USA, Germany, Turkey, China, Japan, Taiwan, Thailand, Malaysia, and Singapore.

6. Material Distribution

Each participant received a goodie bag, with an abstract book and writing materials.

7. Social events

Welcome reception for speakers and chairmen of symposia.

Evening tour to Gardens by the Bay for invited speakers and chairmen.

Gala dinner for all participants.

Post-conference tour for invited speakers and chairmen of symposium.

8. Travel subsidies for Invited Speakers / Plenary Speakers

Waiver of conference registration fees for all foreign participants.

Travel subsidies for overseas speakers included partial reimbursement of airfare (S$1000 for speakers from USA and Europe, S$600 for Chinese and Taiwanese, and S$300 for Thai), 3-4 nights hotel stay, waiver of registration fees, and provision of all meals during the meeting.
9. Sponsorship

The conference was supported by a generous grant from the ISN and APSN - $20,000. A generous donation of S$10,000 from the Lee Foundation, Singapore.

Several companies including Prime Bioscience, ThermoFisher, Lonza, Palico Biotech, Leica, and Bronjo Medi purchased advertising space in the abstract book, and booth space. The amount garnered from these sponsorships was S$6500.

Other companies including Sigma and Genomax provided materials in kind such as lanyards for name tags, notebooks, pens, etc.

The National University of Singapore provided the venue including an auditorium, two seminar rooms and foyer area for booths and interaction, and AV equipment free-of-charge.
10. Budget

Attached is actual amount spent on the meeting.

The total amount supported by ISN is: USD$20,000 (S$26560.00), which was spent on catering service (for one day, $4655.23), accommodation for delegates ($10,604.77) and partial reimbursement of speakers’ airfare ($11,300.00).

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<th>Description</th>
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<td>Grant Support from ISN USD20,000 (USD1=SGD1.3280)</td>
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<td>Donation - Lee Foundation</td>
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<td>Sponsorship - vendors</td>
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<td>Tokens of Appreciation &amp; Wrapping Paper - Co-Op</td>
<td>$1,287.60</td>
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<td>$40,872.40</td>
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<td>Transportations - 19 to 22 August</td>
<td>$1,744.10</td>
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<td>Catering Service 20th August</td>
<td>$3,005.97</td>
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<td>$36,122.33</td>
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<td>7</td>
<td>Catering Service – 21st August [SUPPORTED BY ISN]</td>
<td>$4,655.23</td>
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<td>8</td>
<td>Accommodations for 3-4 nights per delegate [SUPPORTED BY ISN]</td>
<td>$10,604.77</td>
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<td>$20,862.33</td>
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<td>9</td>
<td>Partial Reimbursement for Speakers Travel [SUPPORTED BY ISN]</td>
<td>$11,300.00</td>
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<td>Rental of poster panels</td>
<td>$600.00</td>
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<td>Printing of abstract booklet</td>
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<td>12</td>
<td>Installation of temporary power supply at vendor’s booth</td>
<td>$342.40</td>
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<td>Reception dinner (paid first by Prof. Ong)</td>
<td>$1,214.65</td>
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<td>Muslim food (paid first by Prof. Ong)</td>
<td>$130.88</td>
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<td>Tickets to “Gardens by the Bay” (paid first by Prof. Ong)</td>
<td>$558.00</td>
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<td>Trophy for the awardees (9 pieces) (paid first by Prof. Ong)</td>
<td>$630.00</td>
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<td>Post-conference tour (paid first by Prof. Ong)</td>
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<td>Taxi transport for speakers (paid first by Prof. Ong)</td>
<td>$194.92</td>
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<td>$3,582.25</td>
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$40,431.25 $42,160.00 $1,728.75
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<td>Tickets to &quot;Gardens by the Bay&quot; (paid first by Prof. Ong)</td>
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</tbody>
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11. List of Participants

11.1. Invited Speakers and Chairmen of Sessions - 20th August 2015

Grace Y. Sun (Plenary Speaker)
Department of Biochemistry
University of Missouri
Columbia, MO 65211, USA
E-mail: SunG@missouri.edu
Botanical Polyphenols and Brain Health: A Tribute to Professor Albert Sun

Giulio Maria Pasinetti (Plenary Speaker)
Department of Neurology and Friedman Brain Institute
Icahn School of Medicine at Mount Sinai
Bronx, NY, USA
E-mail: Giulio.Pasinetti@mssm.edu
Role of Polyphenols in Promotion of Healthy Brain Aging and Alzheimer’s Disease Preventative Initiatives

Deron R Herr (Chairman)
Department of Pharmacology
National University of Singapore
Singapore 119260
E-mail: phcdrh@nus.edu.sg

Mark P. Mattson (Plenary Speaker)
Laboratory of Neurosciences
Biomedical Research Center, 05C214
251 Bayview Boulevard, Suite 100
Baltimore, MD 21224-6825, USA
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An Evolutionary Perspective of Why Plant ‘Toxins’ Bolster Brain Health

Thiruma Arumugam (Chairman)
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Kah-Leong Lim
Department of Physiology
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Green Tea Catechins and AMP Kinase in Parkinson’s Disease

Teng-Nan Lin
Institute of Biomedical Sciences
Academia Sinica,
Taipei, Taiwan
E-mail: bmltn@ibms.sinica.edu.tw
PPAR-γ Attenuates Oxidative-Inflammatory Damage in Acute Ischemic Stroke: role of herbal plants
Poster 01 - PPAR-γ Ameliorates Neuronal Apoptosis and Ischemic Brain Injury via Suppressing NF-κB Driven p22phox Transcription

Gavin Dawe (Chairman)
Department of Pharmacology
National University of Singapore
Singapore 119260
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Kwok-Fai So (Plenary Speaker)
Department of Anatomy
University of Hong Kong, China
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Neuroprotective Effect Of Wolfberry (Gouqizi) On Neurodegenerative Diseases

Chung Y. Hsu (Plenary Speaker)
Graduate Institute of Clinical Medical Science
China Medical University
Taiwan
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Development of Novel Herbal Drugs for Treating Ischemic Stroke Based on Differential Mechanisms of Glutamate Receptor Subtypes

Sukumal Chongthammakun
Department of Anatomy
Faculty of Science
Mahidol University
Bangkok, Thailand
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Phytoestrogens or Estrogen Modulate Synaptic Plasticity via Genomic and Non-Genomic Actions

Supin Chompoopong
Department of Anatomy
Faculty of Medicine Siriraj Hospital
Mahidol University, Bangkok, Thailand
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Neurological Role of Germinated Brown Rice

Stephanie Hagl (Young Investigator Award) and Gunter P. Eckert
Department of Pharmacology
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Rice Bran Extract for the Prevention of Neurodegeneration In Aging

Jintanaporn Wattanathorn
Department of Physiology
Khon Kaen University, Thailand
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Nutraceuticals for Preventing Neurodegeneration and Enhancing Neurogenesis in Neuropsychological Disorders

Hwee-Ling Koh
Department of Pharmacy
National University of Singapore
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Fresh Medicinal Plants In South East Asia: An Overview and Survey of Usage

Lu Di
Kunming Medical University
Faculty of Basic Medical Sciences
11.2. Invited Speakers and Chairmen of Sessions – 21st August 2015

Eng-Ang Ling (Plenary Speaker, Pio del Rio Hortega Award - Gold)
Department of Anatomy
National University of Singapore
Singapore 119260
E-mail: antlea@nus.edu.sg
Scutellarin Regulates the Notch Pathway and Affects Migration and Morphological Transformation of Bv-2 Cells and Activated Microglia in Rats After Cerebral Ischemia

S Thameem Dheen (Pio del Rio Hortega Award)
Department of Anatomy
National University of Singapore
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Potential Drugs and Herbal Compounds Attenuating Microglia-Mediated Neuroinflammation

William Folk
Department of Biochemistry
University of Missouri
Columbia, MO 65211, USA
E-mail: FolkW@missouri.edu
Basic and Clinical Studies of Sutherlandia Frutescens (L.) R. Br., A South African Medicinal Plant Used For Stress Resilience.

Charanjit Kaur (Chairman)
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Zezong Gu
Department of Anatomy and Pathological Sciences
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Botanicals and Neuroinflammation: Omics Studies on Microglial Resiliency

Dennis Y Chuang (Young Investigator Award)
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cPLA2 as a Novel Therapeutic Target for Botanicals Against Microglia-induced Secondary Neuronal Damage
Yuh Fung Chen
Graduate Institute of Basic Medical Science
China Medical University
Taiwan
E-mail: yfchen_cmu@yahoo.com
Green Tea Ameliorates Learning and Memory Deficits in Ischemic Stroke by Modulation of Neuroinflammation

Barbara Shukitt-Hale (Plenary Speaker)
Neuroscience and Aging Laboratory
Tufts University
USA
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The Effects of Nutrition on Cognition and Motor Function in Aging

Barry Halliwell (Plenary Speaker)
Department of Biochemistry
National University of Singapore
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E-mail: bchbh@nus.edu.sg
The Wanderings of a Free Radical – Assessing Antioxidants and their Impact on Health and Disease

Wei-Yi Ong
Department of Anatomy
National University of Singapore
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Differential Distribution and Function of Brain Phospholipase A2 Isoforms

Eyleen Goh
Neuroscience & Behavioral Disorders Program
DUKE-NUS Graduate Medical School
Singapore
E-mail: Eyleen.goh@duke-nus.edu.sg
Role of Nutrition in Brain Development and Disease

Mehmet Cansev (Plenary Speaker)
Uludag University, Bursa, Turkey
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Synaptogenesis: Modulation by Availability of Phosphatide Precursors

W. Gibson Wood
Department of Pharmacology
University of Minnesota
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Summing Up and Future Directions
11.3. Participants and Poster Presenters

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Nathanael Wijaya, 15S7B
Tang Kwan Hou, 15S7G
Marcus Goh Dong Lin, 15S7G
Branden Low Yong Kang, 15S7G

National Junior College

Paula Nazarene Evangelista Say, JH402
Jiang Hanyu, 15SH21
Tew Sze Kee, JH302
Wong Yee Howe, 15SH15
Deborah Chung, 15SH07
Tapsee, 15SH04
Priya Ramesh, 15SH07
Alvina Logan, 15sh08
Lee Rui Yi Kay, JH402
Caline Tang, JH402
Guo Ziting, JH402
Chan Synn, Victoria, JH402
Khoo Jia En Joy, H402
Tan Jie Hui, JH402
Nabila Fatharani Azka, JH402
Tara Uttamaram, JH402
Phua Xuan Ru, Jh402
Thong Xuan Rong, JH402
Tricia Tan, JH402
Feng Xinyi, 14SH03
Tan Yu Xuan, 14SH06

MALAYSIA

Universiti Kebangsaan Malaysia

Abdul Babji
Meat Science and Technology
Universiti Kebangsaan Malaysia
E-mail: daging63@icloud.com
Poster 02 - Antioxidative and Antihypertensive Effects of Edible Bird’s Nest
University of Malaya

Anwar Norazit
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50603 Kuala Lumpur, Malaysia
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David Wong Chee-Ern  
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E-mail: davidwce89@gmail.com

Universiti Sains Malaysia

Siti Rafidah Yusof  
Centre for Drug Research  
Universiti Sains Malaysia  
11800 Penang, Malaysia  
E-mail: sryusof@usm.my

THAILAND

Khon Kaen University

Churairat Khongrom  
Faculty of Medicine  
Khon Kaen University  
Khon Kaen, Thailand  
E-mail: kee_ams@yahoo.com  
Poster 03 - The Combined Extract of Haliotis Diversicolor and Moringa Oleifera Leaves Improves Autistic-like Behaviors, Oxidative Stress Status and Gabaergic Function in Cerebellum of Animal Model of Autism

Paphaphat Thiraphathanavong  
Faculty of Medicine  
Khon Kaen University  
Khon Kaen, Thailand  
E-mail: tlejung_ja@hotmail.com  
Poster 04 - Positive Modulation of the Combined Extract of Purple Waxy Corn and Ginger on Kidney Damage, Oxidative Stress, Aldose Reductase and ERK Signaling Pathway in Diabetic Rats

Sudarat Sungkamanee  
Faculty of Medicine  
Khon Kaen University  
Khon Kaen, Thailand  
E-mail: tammy26_tam@hotmail.com  
Poster 05 - The Herbal Porridge Containing the Combined Extract of Mulberry and Vietnamese Coriander Enhances Cognitive Function of the Menopausal Women

Supaporn Muchimapura  
Faculty of Medicine  
Khon Kaen University  
Khon Kaen, Thailand  
E-mail: s.muchimapura@gmail.com  
Poster 06 - The Neuroprotective and Cognitive Enhancing Effects Of Cucurbita Moschata

Mahidol University

Thanaporn Rungruang
Faculty of Medicine Siriraj Hospital, Mahidol University

2 Prannok, Bangkoknoi, Bangkok Thailand 10700
E-mail: thanaporn.run@mahidol.ac.th
Poster 07 - Parboiled Germinated Brown Rice (PGBR) Improves Ccl4 Brain Injury and Blood Brain Barrier Dysfunction by the Potential of Anti-oxidative Bioactive Compounds

Naresuan University

Niwat Taepavarapruk
Faculty of Medical Science, Naresuan University, Phitsanulok, 65000, Thailand.
E-mail: taepavan@yahoo.com
Poster 08 - Cognitive Enhancing Actions of Agarwood Leaf Extract in Ovariectomized Rats

Onrawee Khongsombat
Faculty of Medical Science
Naresuan University
Phitsanulok 65000, Thailand
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Poster 09 - Improvement of Memory Loss Related to Enhancement of Brain-derived Neurotrophic Factor Expression in Amnestic Male Rats by Germinated Black Glutinous Rice Diet

Pornnarin Taepavarapruk
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Poster 10 - Effects of Sericin-Derived Oligo Peptides on Hippocampal Neurotransmission in Naturally Aging and Amnesic Rats

Sutisa Nudmamud-Thanoi
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Naresuan University, Phitsanulok 65000, Thailand
Email: sutisat@nu.ac.th
Poster 11 - Bacopa Monnieri Attenuates Glutamate/NMDAR1 Receptor Expression in Beta Amyloid Peptide-induced Neurotoxic Rat Brain

CHINA

Guangdong General Hospital

Deng Yiyu
Guangdong General Hospital
106 Zhongshan Second Road
Guangdong 510080, China
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Poster 12 - IL-1β Induces Hypomyelination in the Periventricular White Matter by Inhibiting of Oligodendrocyte Progenitor Cell Maturation

Fang Ming
Department of Emergency and Critical Care
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106 Zhongshan Second Road
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E-mail: wellfm@163.com

Poster 13 - Scutellarin Induced Expression of Notch Signaling and Pro-Inflammatory Mediators in Reactive Astrocytes in Rats Subjected to Middle Cerebral Artery Occlusion

Han Yongli
Guangdong General Hospital
Guangdong 510080, China
E-mail: 13570498911@163.com

Poster 14 - Hypertonic Saline Attenuates Expression of Notch Signaling and Proinflammatory Mediators in Activated Microglia

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Poster 15 - A Mitochondrial Protective Effect by Rhodiola Crenulata Extracts Against Neural Degeneration in Hippocampus of Streptozotocin Treated Rat
**TAIWAN**

China Medical University

Tsai Mang-Hung  
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Wei I-Hua  
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Taichung, Taiwan.  
E-mail: ihwei@mail.cmu.edu.tw  
Poster 16 - AMPA Receptor-mTOR Activation is required for the Antidepressant-like Effects of Sarcosine during the Forced Swim Test in Rats

Taipei Medical University

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Department of Anatomy and Cell Biology  
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Chen Jeng-Rung  
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Taichung 402, Taiwan  
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Poster 17 – Dendritic Spines of Cortical Neurons are disintegrated by Beta-Amyloid and Oxidative Stress

**JAPAN**

Gifu University Graduate School of Medicine

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Poster 18 - Induced Genetic Ablation of Rest in Neuronal Cell Lineages Leads to the Alteration of Stimulus Induced Response of the Vagus Nerve

**GERMANY**

Goethe-University of Frankfurt

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Poster 19 - Grape Extract and the Prevention of Aging - Effects on Brain Mitochondrial Function, Cognition and Lifespan in C57BL/6 mice

**USA (please also see invited speaker list)**

University of Missouri

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Poster 20 - Quantitative Proteomic Analysis of Proteins by Deuterium Isobaric Amine Reactive Tagging (DiART) Mass Spectrometry: Comparing Moderate versus Severe Cerebral Ischemic Injury
12. Feedback on Meeting

12.1. What feedback do you have for the presenters?

Excellent presenters, they are outstanding and nice PowerPoint presentation
Appreciation for those presenters who gave a bit of background before jumping into the results
Can provide more background information about their research as there are students (like me) who do not understand
Thank you presenters for the job well done, all the best for your work!
Very well explained and presented, with some considerations for students. Their amazing work was. Thank you very much for the opportunity to attend this conference.
I appreciate the clarity from a few presenters and specifically for those that offered a bit of background information and explanations to bring us students up to speed on what was being presented
All the presenters in these two days are very excellent. I have learnt a lot from these two days.
Presentations were very interesting and informative.
Great selection of speakers – Would be great if we could add more speakers from the ASEAN region. The speakers were the best among their areas of expertise.
Some of the speakers were very clear in their presentations, however, some were a bit too complicated (chim) and maybe more background information could have been provided
I had studied a lot of neuroceuticals, and some neuroprotective effects
Some presenters have more information, couldn’t finish in given give. In general, very good presenters. They are all excellent speakers. Would it be possible to have some handout materials?
It was very interesting, they had a good selection of material for the presentation, including methods and key findings as well as the concepts which gave me a comprehensive understanding of most. Some were all very knowledgeable in the field and had great contributions.
Contextualise more please! And try not to read off the slides.
Keep to the time all owed.
Excellent meeting. Learn a lot from presenters.
Excellent, very topical. Highly focused meeting that addresses important topics. Having young investigators attend is very important.
Excellent presentations covering a range of ideas that is fresh and enriching especially for students like us.
I think they presented well, but I feel they should have clarified some of the terms to make it more student-friendly.
Presenters were elegant and knew their content well. Appropriate material for the general attendance.
Though we thank the professors who had made the effort to make it more applicable to us students. Thank you!
Most of the presenters presented very well, however some of them can afford to have less words on their slides.
Great sharing by the presenters. Enjoyed listening to them share about their areas of expertise and research findings.
Overall, the pace and duration is alright. But more background info can be given? The content was very enriching and it is an eye opener for many of us.
Would be better if all presenters strictly follow the time limitation!
Ringing a bell to remind the presenters to their allocated time was a very good idea, nevertheless the presentations sometimes were longer than scheduled.
Very nice presentations, sometimes there was a time problem so at the end interesting things were shortly presented.
Enthusiastic speakers and interesting sharing on their research and experience. Well done!
The presenters are well known in the field with vast experience in research. The young presenters are equally good and have presented exciting data. Indeed, a very good selection of presenters and topics have been made by the organizers.
Everything is good and well proposed. I gained more knowledge from all of them.
Highly academic.
All of them are very good.
Some of the narration about experimental findings that are not very important Eg reiteration can be skipped, just making general conclusions and necessary emphasis.
The presentations are great, thank you for your work and research
Should have been more engaging, interactive
Some talked too fast for me to catch what they were saying. Should have explained more basic concepts/terms at the start
Very excellent presentations.
Great mix of presentation topics. Perhaps have a more effective way to enforce time limit while still maintaining respect to speakers.
Presenters are mostly unaware that audience involves students who do not have any background info on neuroscience, therefore they could be more detailed and simplistic in their explanation.
I am really love and appreciate and also thank you very much for all the presenters that give me many knowledges.
Dennis Y. Chuang, talk was very interesting!

12.2. What feedback do you have related to the contents of the meeting?

Emphasis on aging research more
Short of time for poster viewing
Very informative and interesting. Have learned a lots.
I received too much knowledge about nutraceuticals and neuroscience diseases
Perhaps we could have been given simpler side by side explanations, because it is easy to lose track
It would be better if there were some hands on activities along the way. The last break on day 1 was too early as there were still 6 more talks to go. It may be better if speakers of other nationalities (Eg. Japanese, Russian, etc.) came too
Possible to broaden the scope of topics covered?
Perhaps simpler topics could be placed in the beginning to ease all participants into the swing of things
Maybe it would be possible to try cutting down on the no. of repetitive presentations (research on similar compounds or similar diseases)
Perhaps more coverage of different fields in neuroscience.
Ask permission from speakers to allow for their slides to be accessible to participants for a short period.
The contents were very good and very focused. I was able to get something out of each talk since the contents were all related with each other and focused on certain fields.
The content of the meeting was very insightful and thought-provoking, and it gave me some ideas on how to conduct and carry out my own research experiment
Some of the food products are also useful for my research. Maybe.
Maybe some clinical researchers can be presented.
The contents were very good, variety, and very informative.
As a student, I had some lack of understanding of the basic concepts, so some was hard to follow but it was very informative and interesting. It was great to see the professors sharing and asking each other and here great contributions very inspiring.
Sessions went well together.
See more – should continue! Well organized.
I think it was a good topic, as it was easily relatable to our daily lives and to our world as well.
Enriching and insightful.
As a student, the meeting was an eye opener, as well as a brain rattling experience haha. Extremely good exposure for us, especially to those who want to purpose a career in Science or Research.
It was slightly too complex and most of the time I was unable to follow the content. Perhaps a separate booklet to elaborate on the topics can be given.
The sharings provided me with deeper insights into the effects of natural products and nutraceuticals on human health. I found Prof Mattson’s talk particularly thought provoking.
It is interesting for us students to know more about the fields of neuroscience and the depth of some contents really pushed us to our limits.
Very organized. Thank you for all your efforts.
Very interesting content, nicely organized! Poster presentations were a little bit too short and in the breaks. A certain time maybe 1 hour just for posters would be nice.
I definitely have learned a lot. Scientific contents are good and revealed the latest developments in the field.
It was set in the appropriate session for the same area of research. Some aspects other than aging should be included. The contents of the meeting are very informative and has provided me with much insight as a student, but this meeting’s primary purpose I believe is to discuss causes and strategies to counter neurodegeneration so more focus could be placed on that. I believe this lack of focus is due to lack of time. The topics are all quite interesting and cover a very broad range of discussions. Just wondering, a lot of researchers have been down in a single herb or plant, component on neurodegeneration, but in traditional Chinese medicine, usually a combination are issued to patients. Will studying the specific combination of herbs give more insights to how the side effects of each herb can be mitigated? Thanks.

Too complex to understand =)
Great. NO need for change.
Researchers do not have the link of their finding to humans. While it is interesting to learn about the different kinds of substances that can reduce neurodegeneration problems, I wonder if such findings are even effective at all because animals are very different from humans.

I have got many ideas, knowledges and really need the organizer to organize more meetings, more of them for this groups.

12.3. Any other comments?

Having 5 presentations back to back is too mentally draining for us students. Things always seem to overrun – affects our break times
The refreshments are nice
I learned a lot about Biology research, and how it is conducted, thanks =)
Very well organized programme
Thank you to the organizing committee for organizing this fruitful session
Venue too cold
Breaks don’t really need food. Breaks to be more appropriately placed.
Thank you for the invitation. Our students benefitted a lot from all the sharing in these two days.
Breaks should be more appropriately placed – In the first day, there were 6 consecutive talks
Please continue with this meeting. It provides a great platform for researchers in the field
Include an optional workshop on selected techniques that may be beneficial to other researchers
I think the meeting was very well organized and planned out
Many thanks for your kindness and hospitality. This satellite meeting was attractive for me.
Thank you for an information and enjoyable meeting! I am happy to have met many experts in the field.
Special thanks to Prof Grace Sun and Prof Ong Wei Yi for their kind words and invitation to share my research findings.
I’d like the meeting very much. Thank you all organizing committee for all of hard works.
All good! I’m glad to attend this meeting!
It would be better if posters could be viewed on day 2 too.
Suggestions for journals to publish papers: Nutritional Neuroscience, AGE. I can help with this as I am an editor for both journals (Barbara Shukitt Hale – Professor HNRCA at Tufts Univ. Boston)
Thanks to the organisers.
Possibility of sharing the slides with the participants? Video of each presentation in the next meetings.
It was an enriching and enlightening experience to listen to so many researchers results.
Thank you Prof Ong and the organizing committee for having us here! =)
It would be great to have panel discussions on important topics in the future.
It would be good if water would be provided for all participants, not just speakers.
To collate all presented materials in a conference edition issue
To include email contacts of all presenters and participants
To create a discussion forum of platform for further discussion and Q&A from all participants and presenters to facilitate ideas exchange
It should be arranged the conference annually in the future.
Maybe we need to translate all the research findings in a more clinical setting in healthcare and mental well-being.
Many thanks to all staff for their nice jobs.
I would recommend this to other students, especially those in JC level as some info is relevant. However, to allow students to gain a better understanding, some informative posters on basic knowledge could also be provided. Eg affixed to the wall if there are insufficient panels for poster placement. Could have similar meeting on herbal plants in the future.

Thank you. Really appreciate the fantastic organization.

I have just started to do the experiment on nutraceuticals and oxidative stress project. And after I go back to my country, I will try to use my knowledge that I receive from this meeting to have my experiment succeed. And ask my collaborators to attend this meeting again.

Score of 1-5, 5 being the best.
Photos of Meeting