

25<sup>th</sup> International Society for Neurochemistry and  
13<sup>th</sup> Asian Pacific Society for Neurochemistry  
Biennial Meeting, Cairns, 2015

## Satellite Meeting in Singapore

Nutraceuticals 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

25th ISN and 13th APSN Biennial Meeting, Cairns. Satellite Meeting in Singapore: “Nutraceuticals in Neurodegeneration and Aging”

### 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.

## 2. Programme

| Date and Time                 | Venue and Speaker   |
|-------------------------------|---|
| Wednesday 19th<br>August 2015 | Reception For Invited Speakers, Chairmen Of Symposia, And Organizing Committee Meet at Lobby of Bay Hotel, Singapore, at 5.30pm   |
| Thursday 20th<br>August 2015  | Venue: Centre for Life Sciences, National University of Singapore, Singapore 117456<br>Session I. Nutraceuticals in Stroke and Dementia   |
| 7.30 -8.00am                  | Registration and Poster Setup   |
| 8.00-8.30am                   | <b>Welcome and Opening Remarks</b><br><br>Guest of Honor<br>Prof. Yeoh Khay Guan<br>Dean, Yong Loo Lin School of Medicine<br>National University of Singapore<br><br>Wei-Yi Ong<br>Chairman of International Organizing Committee |
| 8.30 – 9.10am                 | <b>Plenary Lecture 1</b><br>Botanical Polyphenols and Brain Health: A Tribute to Professor Albert Sun<br>Grace Y. Sun<br>University of Missouri<br>Chair: Deron R Herr  |
| 9.10 – 9.50am                 | <b>Plenary Lecture 2</b><br>Role of Polyphenols in Promotion of Healthy Brain Aging and Alzheimer's Disease Preventative Initiatives<br>Giulio Pasinetti<br>New York, USA<br>Chair: Deron R Herr                                  |
| 9.50 – 10.20am                | Tea Break and Poster Viewing  |
| 10.20–11.00am                 | <b>Plenary Lecture 3</b><br>An Evolutionary Perspective of Why Plant 'Toxins' Bolster Brain Health<br>Mark Mattson<br>National Institute on Aging, USA<br>Chair: Thiruma Arumugam   |
| 11.00-11.30am                 | Green Tea Catechins and AMP Kinase In Parkinson's Disease<br>Kah-Leong Lim<br>National Neuroscience Institute, Singapore<br>Chair: Gavin S. Dawe  |
| 11.30-12.00pm                 | PPAR-gamma Attenuates Oxidative-Inflammatory Damage In Acute Ischemic Stroke: Role Of Herbal Plants<br>Teng-Nan Lin<br>Academia Sinica, Taiwan<br>Chair: Gavin S. Dawe  |
| 12.00-1.00pm                  | Lunch and Poster Viewing  |
| 1.00-1.40pm                   | <b>Plenary Lecture 4</b><br>Neuroprotective Effect Of Wolfberry (Gouqizi) On Neurodegenerative Diseases<br>Kwok-Fai So<br>University of Hong Kong, China<br>Chair: Teng-Nan Lin   |
| 1.40 –2.20pm                  | <b>Plenary Lecture 5</b><br>Development of Novel Herbal Drugs for Treating Ischemic Stroke Based on Differential Mechanisms of Glutamate Receptor Subtypes<br>Chung Y. Hsu  |

|                         |  |
|-------------------------|--|
|                         | China Medical University, Taiwan<br>Chair: Teng-Nan Lin  |
| 2.20 – 2.50pm           | Tea Break and Poster Viewing   |
| 2.50–3.20pm             | Phytoestrogens or Estrogen Modulate Synaptic Plasticity via Genomic and Non-genomic Actions<br>Sukumal Chongthammakun<br>Mahidol University, Thailand<br>Chair: Hu Qidong  |
| 3.20 – 3.50pm           | Neurological role of Germinated Brown Rice<br>Supin Chompoopong<br>Mahidol University, Thailand<br>Chair: Hu Qidong  |
| 3.50-4.20pm             | <b>Young Investigator Award Lecture</b><br>Rice Bran Extract For The Prevention Of Neurodegeneration In Aging<br>Stephanie Hagl And Gunter P. Eckert<br>University of Frankfurt, Germany<br>Chair: Hu Qidong   |
| 4.20 –4.50pm            | Nutraceuticals for Preventing Neurodegeneration and Enhancing Neurogenesis in Neuropsychological Disorders<br>Jintanaporn Wattanathorn<br>Khon Kaen University, Thailand<br>Chair: Hu Qidong   |
| 4.50 – 5.20pm           | Fresh Medicinal Plants In South East Asia: An Overview And Survey Of Usage<br>Hwee-Ling Koh<br>National University Of Singapore<br>Chair: Hu Qidong  |
| 5.20pm – 5.50pm         | Ginsenoside Rg2 Suppresses Microglial Activation and Reduces Production of Inflammatory Cytokines<br>Lu Di<br>Kunming Medical University<br>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<br>Session II. Nutraceuticals in Neurodegenerative Diseases  |
| 8.00-8.30am             | Registration   |
| 8.30-9.10am             | <b>Pio del Rio Hortega Award (Gold)</b><br><b>Plenary Lecture 6</b><br>Scutellarin Regulates The Notch Pathway And Affects Migration And Morphological Transformation Of BV-2 Cells And Activated Microglia In Rats After Cerebral Ischemia<br>Eng-Ang Ling<br>National University of Singapore<br>Chair: Deron R Herr |
| 9.10-9.40am             | <b>Pio del Rio Hortega Award</b><br>Potential drugs and herbal compounds attenuating microglia-mediated neuroinflammation<br>S Thameem Dheen<br>National University of Singapore<br>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.<br>William Folk   |

|  |  |
|--|--|
|  | University of Missouri<br>Chair: Deron R. Herr   |
| 10.10 –10.40am                           | Tea Break  |
| 10.40-11.10am                            | Botanicals And Neuroinflammation: Omics Studies On Microglial Resiliency<br>Zezong Gu<br>University of Missouri, USA<br>Chair: Charanjit Kaur  |
| 11.10 – 11.40am                          | <b>Young Investigator Award Lecture</b><br>cPLA2 As A Novel Therapeutic Target For Botanicals Against Microglia-Induced Secondary Neuronal Damage<br>Dennis Chuang Y<br>University of Missouri, USA<br>Chair: Eyleen Goh |
| 11.40– 12.10pm                           | Green Tea Ameliorates Learning And Memory Deficits In Ischemic Stroke By Modulation Of Neuroinflammation<br>Yuh-Fung Chen<br>China Medical University, Taiwan<br>Chair: Eyleen Goh                                       |
| 12.10-1.10pm                             | Lunch  |
| 1.10 –1.50pm                             | <b>Plenary Lecture 7</b><br>The Effects Of Nutrition On Cognition And Motor Function In Aging<br>Barbara Shukitt-Hale<br>Tufts University, USA<br>Chair: Sukumal Chongthammakun  |
| 1.50-2.30pm                              | <b>Plenary Lecture 8</b><br>The Wanderings Of A Free Radical – Assessing Antioxidants And Their Impact On Health And Disease<br>Barry Halliwell<br>National University of Singapore<br>Chair: Sukumal Chongthammakun     |
| 2.30-3.00pm                              | Tea Break  |
| 3.00 – 3.30pm                            | Differential Distribution and Function of Brain Phospholipases A2 Isoforms<br>Wei-Yi Ong<br>National University of Singapore<br>Chair: Supin Chompoopong   |
| 3.30 – 4.00pm                            | Role Of Nutrition In Brain Development And Disease<br>Eyleen Goh<br>DUKE NUS, Singapore<br>Chair: Supin Chompoopong  |
| 4.00-4.30pm                              | <b>Plenary Lecture 9</b><br>Synaptogenesis: Modulation By Availability Of Phosphatide Precursors<br>Mehmet Cansev<br>Uludag University, Bursa, Turkey<br>Chair: Supin Chompoopong  |
| 4.30 -5.00pm                             | <b>Summary and Future Directions</b><br><b>Poster Award Presentation</b>   |
| 5.00 – 7.00pm                            | Dinner (All Participants are Welcome).   |
| Saturday 22 <sup>nd</sup><br>August 2015 | Post-Conference Tour   |

### **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

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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)

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Singapore 119260

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Kah-Leong Lim

Department of Physiology

National University of Singapore

Singapore 119260

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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- $\gamma$  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  
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 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 Chompoonpong  
 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)  
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 National University of Singapore  
 Singapore 119260  
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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  
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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  
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 Singapore 119260  
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 Potential drugs and herbal compounds attenuating microglia-mediated neuroinflammation

Charanjit Kaur (Chairman)  
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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\_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

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

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The wanderings of a free radical – assessing antioxidants and their impact on health and disease

Wei-Yi Ong

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National University of Singapore

Singapore 119260

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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

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Role of nutrition in brain development and disease

Mehmet Casev (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

Minneapolis, MN 55455-0217, USA

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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).

| General Journal as at 12 October 2015 |  |              |                     |              |
|---------------------------------------|--|--------------|---------------------|--------------|
| S/N                                   | Description  | Debit \$     | Credit \$           | Balance \$   |
| 1                                     | <b>Grant Support from ISN USD20,000 (USD1=SGD1.3280)</b>             |              | <b>\$ 26,560.00</b> | \$ 26,560.00 |
| 2                                     | Donation - Lee Foundation  |              | \$ 10,000.00        | \$ 36,560.00 |
| 3                                     | Sponsorship - vendors  |              | \$ 5,600.00         | \$ 42,160.00 |
| 4                                     | Tokens of Appreciation & Wrapping Paper - Co-Ops                     | \$ 1,287.60  |                     | \$ 40,872.40 |
| 5                                     | Transportations - 19 to 22 August                                    | \$ 1,744.10  |                     | \$ 39,128.30 |
| 6                                     | Catering Service 20 <sup>th</sup> August                             | \$ 3,005.97  |                     | \$ 36,122.33 |
| 7                                     | <b>Catering Service – 21<sup>st</sup> August [SUPPORTED BY ISN]</b>  | \$ 4,655.23  |                     | \$ 31,467.10 |
| 8                                     | <b>Accommodations for 3-4 nights per delegate [SUPPORTED BY ISN]</b> | \$ 10,604.77 |                     | \$ 20,862.33 |
| 9                                     | <b>Partial Reimbursement for Speakers Travel [SUPPORTED BY ISN]</b>  | \$ 11,300.00 |                     | \$ 9,562.33  |
| 10                                    | Rental of poster panels  | \$ 600.00    |                     | \$ 8,962.33  |
| 11                                    | Printing of abstract booklet   | \$ 701.39    |                     | \$ 8,260.94  |
| 12                                    | Installation of temporary power supply at vendor's booth             | \$ 342.40    |                     | \$ 7,918.54  |
| 13                                    | Reception dinner (paid first by Prof. Ong)                           | \$ 1,214.65  |                     | \$ 6,703.89  |
| 14                                    | Muslim food (paid first by Prof. Ong)                                | \$ 130.88    |                     | \$ 6,573.01  |
| 15                                    | Tickets to "Gardens by the Bay" (paid first by Prof. Ong)            | \$ 558.00    |                     | \$ 6,015.01  |
| 16                                    | Trophy for the awardees (9 pieces) (paid first by Prof. Ong)         | \$ 630.00    |                     | \$ 5,385.01  |
| 17                                    | Post-conference tour (paid first by Prof. Ong)                       | \$ 1,607.84  |                     | \$ 3,777.17  |
| 18                                    | Taxi transport for speakers (paid first by Prof. Ong)                | \$ 194.92    |                     | \$ 3,582.25  |
| 19                                    | Banner (paid first by Prof. Ong)                                     | \$ 80.00     |                     | \$ 3,502.25  |
| 20                                    | Preparation visit by Prof. Grace Sun-Hotel (paid first by Prof. Ong) | \$ 1,065.60  |                     | \$ 2,436.65  |
| 21                                    | Preparation visit by Prof. Grace Sun-Meals (paid first by Prof. Ong) | \$ 707.90    |                     | \$ 1,728.75  |
|                                       |  |              |                     | \$ 1,728.75  |
|                                       |  | \$ 40,431.25 | \$ 42,160.00        | \$ 1,728.75  |

| S/N      | Description  | Debit \$            | Credit \$           | Balance \$   |
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| 5        | Transportations - 19 to 22 August                                    | \$ 1,744.10         |                     | \$ 39,128.30 |
| <b>6</b> | <b>Catering Service - 20 to 21 August [SUPPORTED BY ISN]</b>         | <b>\$ 7,661.20</b>  |                     | \$ 31,467.10 |
| <b>7</b> | <b>Accomodations for 3-4 nights per delegate [SUPPORTED BY ISN]</b>  | <b>\$ 10,604.77</b> |                     | \$ 20,862.33 |
| <b>8</b> | <b>Speakers Reimbursement [SUPPORTED BY ISN]</b>                     | <b>\$ 11,300.00</b> |                     | \$ 9,562.33  |
| 9        | Rental of poster panels  | \$ 600.00           |                     | \$ 8,962.33  |
| 10       | Printing of abstract booklet   | \$ 701.39           |                     | \$ 8,260.94  |
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| 16       | Post-conference tour (paid first by Prof. Ong)                       | \$ 1,607.84         |                     | \$ 3,777.17  |
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| 19       | Preparation visit by Prof. Grace Sun-Hotel (paid first by Prof. Ong) | \$ 1,065.60         |                     | \$ 2,436.65  |
| 20       | Preparation visit by Prof. Grace Sun-Meals (paid first by Prof. Ong) | \$ 707.90           |                     | \$ 1,728.75  |
|          |  |                     |                     | \$ 1,728.75  |
|          |  | \$ 40,431.25        | \$ 42,160.00        | \$ 1,728.75  |

## **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  
 E mail mattsonm@grc.nia.nih.gov  
 An Evolutionary Perspective of Why Plant 'Toxins' Bolster Brain Health

Thiruma Arumugam (Chairman)  
 Department of Physiology  
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 Green Tea Catechins and AMP Kinase in Parkinson's Disease

Teng-Nan Lin  
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 E-mail: bmltn@ibms.sinica.edu.tw  
 PPAR- $\gamma$  Attenuates Oxidative-Inflammatory Damage in Acute Ischemic Stroke: role of herbal plants  
 Poster 01 - PPAR- $\gamma$  Ameliorates Neuronal Apoptosis and Ischemic Brain Injury via Suppressing NF- $\kappa$ B  
 Driven p22phox Transcription

Gavin Dawe (Chairman)  
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Kwok-Fai So (Plenary Speaker)  
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Neuroprotective Effect Of Wolfberry (Gouqizi) On Neurodegenerative Diseases

Chung Y. Hsu (Plenary Speaker)  
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Development of Novel Herbal Drugs for Treating Ischemic Stroke Based on Differential Mechanisms of Glutamate Receptor Subtypes

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Phytoestrogens or Estrogen Modulate Synaptic Plasticity via Genomic and Non-Genomic Actions

Supin Chompoonpong  
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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

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Nutraceuticals for Preventing Neurodegeneration and Enhancing Neurogenesis in Neuropsychological Disorders

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Fresh Medicinal Plants In South East Asia: An Overview and Survey of Usage

Lu Di  
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Faculty of Basic Medical Sciences



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 Ginsenoside Rg2 Suppresses Microglial Activation and Reduces Production of Inflammatory Cytokines

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### **11.2. Invited Speakers and Chairmen of Sessions – 21st August 2015**

Eng-Ang Ling (Plenary Speaker, Pio del Rio Hortega Award - Gold)  
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 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)  
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 Potential Drugs and Herbal Compounds Attenuating Microglia-Mediated Neuroinflammation

William Folk  
 Department of Biochemistry  
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 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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 Missouri, USA  
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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  
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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)  
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The Wanderings of a Free Radical – Assessing Antioxidants and their Impact on Health and Disease

Wei-Yi Ong  
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Differential Distribution and Function of Brain Phospholipase A2 Isoforms

Eyleen Goh  
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Role of Nutrition in Brain Development and Disease

Mehmet Cansev (Plenary Speaker)  
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Synaptogenesis: Modulation by Availability of Phosphatide Precursors

W . Gibson Wood  
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Summing Up and Future Directions

### **11.3. Participants and Poster Presenters**

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Wong Yee Howe, 15SH15

Deborah Chung, 15SH07

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Priya Ramesh, 15SH07

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Poster 02 - Antioxidative and Antihypertensive Effects of Edible Bird's Nest

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Khon Kaen University

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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

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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

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Poster 05 - The Herbal Porridge Containing the Combined Extract of Mulberry and Vietnamese Coriander Enhances Cognitive Function of the Menopausal Women

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Poster 06 - The Neuroprotective and Cognitive Enhancing Effects Of *Cucurbita Moschata*

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Poster 07 - Parboiled Germinated Brown Rice (PGBR) Improves Ccl4 Brain Injury and Blood Brain Barrier Dysfunction by the Potential of Anti-oxidative Bioactive Compounds

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Poster 08 - Cognitive Enhancing Actions of Agarwood Leaf Extract in Ovariectomized Rats

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Poster 09 - Improvement of Memory Loss Related to Enhancement of Brain-derived Neurotrophic Factor Expression in Amnesic Male Rats by Germinated Black Glutinous Rice Diet

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

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Poster 11 - Bacopa Monnieri Attenuates Glutamate/NMDAR1 Receptor Expression in Beta Amyloid Peptide-induced Neurotoxic Rat Brain

#### **CHINA**

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Poster 12- IL-1 $\beta$  Induces Hypomyelination in the Periventricular White Matter by Inhibiting of Oligodendrocyte Progenitor Cell Maturation

Fang Ming

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

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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

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 Poster 16 - AMPA Receptor-mTOR Activation is required for the Antidepressant-like Effects of Sarcosine during the Forced Swim Test in Rats

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 Poster 17 – Dendritic Spines of Cortical Neurons are disintegrated by Beta-Amyloid and Oxidative Stress

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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**

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Heike Assenburg

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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)**

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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 time. 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!

Ring 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 then 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 organising 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.





