The 11th Annual Scientific Meeting Hong Kong Society of Biological Psychiatry



Neural Circuitry: From Brain Development To Intervention – How Far Are We?

21-22 April 2018 (Saturday and Sunday) Sheraton Hong Kong Hotel & Towers, 20 Nathan Road, Kowloon



The 11th Annual Scientific Meeting Hong Kong Society of Biological Psychiatry **Neural** Circuitry:

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#### Lectures

- The Circuitry of Depression: New Findings on Postpartum Prof. Anthony A. GRACE
- Addiction: From Brain Mechanism to New Treatment...... Prof. David J. NUTT
- Neurobiology of Sleep ..... Prof WING Yun Kwok

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The 11th Annual Scientific Meeting Hong Kong Society of Biological Psychiatry

#### Neural Circuitry: From Brain Development To Intervention – How Far Are We? 21-22 April 2018 (Saturday and Sunday); Sheraton Hong Kong Hotel & Towers, 20 Nathan Road, Kowloon

### **Welcome Message**

On behalf of the Organizing Committee, we take great pleasure in inviting you to participate in the 11th Annual Scientific Meeting (ASM) of the Hong Kong Society of Biological Psychiatry (HKSBP). The meeting will be organized on 21st (Saturday afternoon & evening) and 22nd (Sunday afternoon) in April 2018 at the Sheraton Hong Kong Hotel & Towers.

The theme of this year is Neural Circuitry: From Brain Development to Intervention– How Far Are We? We have invited 2 world-class experts to talk about neurotransmitters and neurocircuitry. Prof David J. NUTT is a British psychiatrist and neuropsychopharmacologist specializing in the research of drugs that affect the brain and conditions such as addiction, anxiety and sleep. Currently, he is the Edmond J Safra Chair in Neuropsychopharmacology at Imperial College London. While Prof Anthony A. GRACE is a Distinguished Professor of Neuroscience and a professor of psychiatry and psychology at the University of Pittsburgh, USA. His current work involves the role of dopamine in anhedonia and affective disorders, the mode of action of ketamine and novel antidepressant drugs, and novel treatments for schizophrenia and its prevention. Their lectures will cover new findings in the neurotransmitters and neurocircuitry in depression, schizophrenia, addiction and OCD in our meeting.

In addition, we have invited local speakers from the University of Hong Kong. Prof CHANG Chuen Chung, Raymond will talk about neurobiology of the dementing brain; while Prof LEE Mei Chun, Tatia is specialized in neuropsychology, she will talk about impulsive brain. Prof WING Yun Kwok from Chinese University of Hong Kong will give a lecture on neurobiology of sleep and young researchers from Japan to share their latest research papers. Our President, Dr WONG Ming Cheuk, Michael, will kick-off with a session on drug treatment and Prof. TANG Siu Wa and Dr. Sofia PAPPA will give lectures on the 2 lunch symposia respectively.

We look forward to meeting at this educational, inspirational and intellectually exciting event.

Yours sincerely,

Dr. CHUNG Kar Kin, Albert Co-chairperson, Organizing Committee of 11th ASM Hong Kong Society of Biological Psychiatry

Dr. CHEUNG Hon Kee, Henry Co-chairperson, Organizing Committee of 11th ASM Hong Kong Society of Biological Psychiatry

### 11th AGM Organizing Committee

#### **Co-chairpersons:**

Dr. CHUNG Kar Kin, Albert Dr. CHEUNG Hon Kee, Henry

### Scientific Committee Members:

Dr. LO Chun Wai Professor TANG Siu Wa Professor WING Yun Kwok Dr. WONG Ming Cheuk, Michael

#### Members:

- Dr. IU Pui Chuen
- Dr. TAM Mo Shing, Paul Dr. TSANG Suk Kwan, Jenny Dr. WONG Chi Keung
- Dr. WONG Chung Hin, Willy
- Dr. YUEN Cheung Hang, Henry

### HKSBP: Council Member 2017-2018

President:	Dr. V
Vice President:	Dr. C
Honorary Secretary:	Dr. C
Honorary Treasurer:	Dr. T
Current Past and Founding President:	Profe
Council Members:	Dr. I
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	Dr. T
	Profe
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Dr. WONG Chi Keung

Dr.



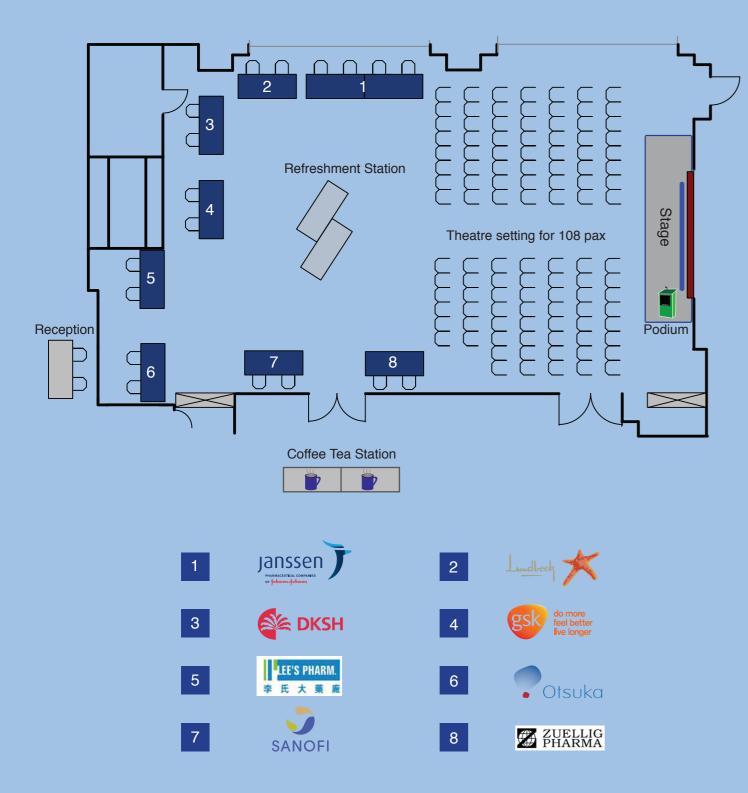
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- CHUNG Kar Kin, Albert
- CHEUNG Hon Kee, Henry
- TSANG Suk Kwan, Jenny
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- IU Pui Chuen
- LO Chun Wai
- TAM Mo Shing, Paul
- ofessor WING Yun Kwok
- Dr. WONG Chung Hin, Willy
- Dr. YUEN Cheung Hang, Henry

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**Neural** Circuitry: From Brain Development To Intervention – How Far Are We? 21-22 April 2018 (Saturday and Sunday); Sheraton Hong Kong Hotel & Towers, 20 Nathan Road, Kowloon

## **Floor Plan**

Sung Room, 4/F, Sheraton Hong Kong Hotel & Towers, 20 Nathan Road, Kowloon (The 2 lunch symposia are at Ming Room, 4/F)



### **Neural Circuitry: From Brain Development To Intervention – How Far Are We?**

Time	Scientific Programme
	21 April 2018, Saturda
11:30-12:00	Registration Lunch Starts
<u>12:00</u> 12:45-13:45	Lunch Symposium: Psychotropic Drugs: From Natural Drug Development Prof. TANG Siu Wa Director, Institute of Brain Medicine (International) Emeritus Professor of Psychiatry, University of California, In Current Past and Founding President of HKSBP Chairperson: Dr. LO Chun Wai, Council Member of HKS (Sponsored by Lundbeck Hong Kong)
14:00-14:40	Welcome Remarks: Do We Know Our Treatment? Dr. WONG Ming Cheuk, Michael President of HKSBP Consultant Psychiatrist, Queen Mary Hospital Honorary Associate Professor, Department of Psychiatry The University of Hong Kong Chairperson: Dr. WONG Chi Keung, Council Member o
14:40-15:40	Plenary Lecture: Stress and Schizophrenia: Susceptibility in Prof. Anthony A. GRACE Distinguished Professor of Neuroscience Professor of Psychiatry and Psychology University of Pittsburgh, United Sates of America Chairperson: Dr. WONG Chung Kwong, JP, Private Prace
15:40-16:00	Exhibition and Coffee Break
16:00-16:45	Neurobiology of the Dementing Brain Dr. CHANG Chuen Chung, Raymond Lab Chief, Laboratory of Neurodegenerative Diseases, Sch LKS Faculty of Medicine, The University of Hong Kong Chairperson: Dr. LI Seung Yau Derek, Private Practice
16:45-17:30	Regulation of Human Behaviors Prof. LEE Mei Chun, Tatia Chair Professor of Psychology Endowed Professor of Neuropsychology The University of Hong Kong Chairperson: Dr. TSANG Suk Kwan, Jenny, Hon. Treasu
17:30-18:30	<ul> <li>Free Papers from JSBP</li> <li>1. Fecal Microbiota Transplantation may has Positive Effe and Anxiety: A Pilot Open-Label Observational Study in Gastrointestinal Disorders.</li> <li>Dr. Shunya KUROKAWA, Department of Neuropsychiatr of Medicine, Japan</li> <li>2. Widespread White Matter Microstructural Abnormaliti Impairment in Schizophrenia, Bipolar Disorder, and Majo Tract-based Spatial Statistics Study</li> <li>Dr. Shinichi YAMADA, Department of Neuropsychiat University, Japan</li> <li>Chairperson: Dr. TAM Mo Shing, Paul, Council Memb</li> </ul>
18:30-19:00	HKSBP's AGM (Members only)
19:00-20:00	Cocktail Reception Plenary Lecture: Neural Circuits and Neurotransmitters in Prof David J. NUTT Edmund J. Safra Professor, Neuropsychopharmacology Head of Neuropsychopharmacology Unit and Molecular Im Imperial College London, United Kingdom Chairperson: Prof. TANG Siu Wa, Director, Institute of Bra
20:00-22:00	Conference Dinner
	22 April 2018, Sunday
11:30-12:00	Registration
12:00 12:45-13:45	Lunch Starts Lunch Symposium: Does Half-Life Matter After Antipsych Dr. Sofia PAPPA Consultant Psychiatrist, West London Mental Health Trust Honorary Senior Lecturer, Imperial College London, United Chairperson: Dr. WONG Ming Cheuk, Michael, President of (Segmerson Bru, Descen Hones Kong)
14:00-15:00	(Sponsored by Janssen Hong Kong) Plenary Lecture: The Circuitry of Depression: New Findings or Prof. Anthony A. GRACE Distinguished Professor of Neuroscience Professor of Psychiatry and Psychology University of Pittsburgh, United Sates of America Chairperson: FUNG Shun Sun, Desmond, Private Practice
15:00-15:15	Exhibition and Coffee Break
15:15-16:15	Plenary Lecture: Addiction: From Brain Mechanism to Net Prof David J. NUTT Edmund J. Safra Professor, Neuropsychopharmacology Head of Neuropsychopharmacology Unit and Molecular Im Imperial College London, United Kingdom Chairperson: Dr. CHUNG Kar King, Albert, Co-chairperson
16:15-17:00	Neurobiology of Sleep Prof WING Yun Kwok Chairman and Professor, Department of Psychiatry Associate Dean (Student Affairs), Faculty of Medicine, The Chinese University of Hong Kong
	Director of the Sleep Assessment Unit, Shatin Hospital
17:00	

The organizing committee reserves the right to make changes to the programme without notice as and when deemed necessary

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Lunch Symposium: Psychotropic Drugs: From Natural Compounds to Modern Drug 12:45-13:45, 21 April 2018, Saturday



### Prof. TANG Siu Wa

Director, Institute of Brain Medicine (International) Emeritus Professor of Psychiatry, University of California, Irvine, USA Current Past and Founding President of HKSBP

Professor Siu Wa Tang trained in Psychiatry,Neurochemistry and Biochemical Pharmacology at the University of Toronto, Canada. He was Head of Psychopharmacology at the Clarke Institute of Psychiatry, University of Toronto and former Chairman of the Department of Psychiatry, University of California, Irvine, USA. He founded the Pacific Rim Association of Pharmacogenetics and the Hong Kong Society of Biological Psychiatry. He co-founded the Institute of Brain Medicine to promote psychopharmacology in the Far East with Professor Brian Leonard and Professor Joseph Zohar in 2010 during the 2010 CINP meeting in Hong Kong.

#### Abstract

Natural compounds as medicine have served human for thousands of years and are widely popular as traditional medicine. As biological molecules co-evolved in humans and plants, the ability of natural compounds to work as medicine can be explained. In fact, modern psychotropic drugs have their origins in botanical molecules. This lecture examines a range of natural compounds from which modern psychotropics evolved, along with some of their unique multi-dimensional multi-target psychopharmacological aspects.

### Welcome Remarks: Do We Know Our Treatment? 14:00-14:40, 21 April 2018, Saturday



#### Dr. WONG Ming Cheuk Michael

MB,BS(HK), MRCPsych(UK), FHKAM, FHKCPsych Department of Psychiatry, Queen Mary Hospital, Hong Kong

Dr. Wong is working as a Consultant Psychiatrist in the Department of Psychiatry of Queen Mary Hospital in Hong Kong. He is also an Honorary Clinical Associate Professor in the Department of Psychiatry of the University of Hong Kong. His main interests are in community psychiatry and rehabilitation, bipolar affective disorder and psychopharmacology. He has introduced the clubhouse model of psychiatric rehabilitation into Hong Kong and founded the Phoenix Clubhouse in the department which has helped many patients to re-integrate into the community and re-enter the job market.

Dr. Wong is also active in community services, particularly in the rehabilitation of mental patients and the promotion of mental health in the community. He serves as a member of the Rehabilitation District Co-ordinating Committee of the Central Western Southern & Island District Office, Social Welfare Department, HK-SAR Government. He is also one of the council members of Fu Hong Society and a board member of the Chinese Rhenish Church Social Services Department.

He is also actively participating in the regional activities of professional societies. He is the former Chairman of the Society for Advancement of Bipolar Affective Disorder, the current President of the Hong Kong Society of Biological Psychiatry, Chairman of the Hong Kong Association of Psychosocial Rehabilitation and one of the council members of the Asia Network of Bipolar Disorder. Apart from these, Dr. Wong has organized a number of conferences for professional societies and he has been one of the members of the Local Organizing Committee of CINP World Congress Hong Kong 2010.

#### Abstract

As a clinician, we prescribe drugs almost every day. Quite often, we act like a reflex, prescribing a certain medicine for a certain condition. We may not give a thought to basic things about the illness and the drug. For example, we may not think of the pharmacokinetic of the drug, the advantage and disadvantage of a certain preparation of the drug, the mechanism of action of the drug and underlying neurobiology of the illness when we prescribe. These things are important as it guide us to find to best treatment for our patients. Besides, as we know more about the development, structure and organization of neuron network in the brain, we begin to understand more about the underlying neurobiology of various psychiatric conditions. We realize that the "effective" drugs which we are commonly using may not be treating the underlying cause of the illness. This presentation attempts to use a few everyday examples to illustrate the case and paves the way to the subsequent sessions on the neurobiology and neurocircuitry by various speakers.

Plenary Lecture: Stress and Schizophrenia: Susceptibility in the Developing Brain 14:40-15:40, 21 April 2018, Saturday



**Prof. Anthony A. GRACE** 

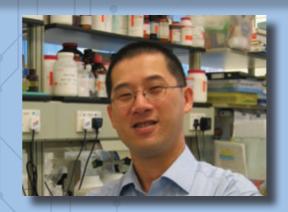
Distinguished Professor of Neuroscience Professor of Psychiatry and Psychology University of Pittsburgh, United Sates of America

Dr. Anthony A. Grace is a Distinguished Professor of Neuroscience and a Professor of Psychiatry and Psychology at the University of Pittsburgh. He has been involved in translational research related to the dopamine system as it relates to the pathophysiology of psychiatric disorders for over 40 years. His early work pioneered the mode of action of antipsychotic drugs and the identification and characterization of dopamine-containing neurons. Currently, Dr. Grace's work involves the role of stress in pathophysiology, novel treatments for schizophrenia and its prevention, and the role of dopamine in affective disorders. He has published more than 300 articles and is cited more than 35,000 times (H index 96). Dr. Grace has received several awards for his research, including the William K. Warren Award for Excellence in Schizophrenia Research, the Paul Janssen Schizophrenia Research Award and the Lilly Basic Scientist Award from the CINP, the Efron Award and the Axelrod Award from the ACNP, the Gold Medal award from the SOBP, and the Outstanding Basic Research award from the SIRS. Dr. Grace is one of a handful of individuals that not only performs important basic research, but can to integrate this work into testable models relevant to the human condition.

#### Abstract

Substantial evidence demonstrates that schizophrenia involves a dysregulated dopamine system, potentially driven by overactivity in the hippocampus. Postmortem studies of schizophrenia brains show a substantial loss of parvalbumin GABAergic interneurons in the hippocampus; loss of this neuron likely drives hippocampal hyperactivity and dysrhythmic activity, leading to an over-responsive dopamine system. Our studies suggest that when the hippocampus is hyperactive and dysrhythmic, the dopamine system is hyper-responsive to stimuli, which can underlie the resultant hallucinations and delusions. A major question is why there is interneuron loss in the hippocampus. Parvalbumin interneurons early in life are susceptible to damage due to stress. In a developmental disruption model of schizophrenia in the rat, we found that prepubertally these rats are more anxious, are hyper-responsive to stress, and show hyperactivity in the amygdala; furthermore relieving the stress early in life prevents the transition to "psychosis" in these rats. This suggests that schizophrenia susceptibility may be due to heightened sensitivity to the deleterious effects of stress. Indeed, multiple stressors given during this sensitive period to normal rats can lead to the schizophrenia phenotype. Moreover, elimination of the ability of the medial prefrontal cortex to regulate stress causes minor stressors to yield the schizophrenia phenotype. In contrast, multiple stressors given to adult rats result in a phenotype resembling models of depression. However, if the critical developmental period is first re-opened in the adult rat via histone decarboxylase inhibition, the same stressors now yield a schizophrenia phenotype. This leads to the intriguing possibility that genetic predisposition does not cause schizophrenia, but instead like the developmental disruption model causes the individual to be hypersensitive to the deleterious effects of stress. Moreover, stress susceptibility may be a common link in familial risk for schizophrenia and depression. Therefore, controlling stress early in life in susceptible individuals may be an effective means to prevent transition to schizophrenia later in life.

### Neurobiology of the Dementing Brain: 16:00-16:45, 21 April 2018, Saturday



### Dr. CHANG Chuen Chung, Raymond

Lab Chief, Laboratory of Neurodegenerative Diseases, School of Biomedical Sciences, LKS Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong Chief Editor, American Journal of Alzheimer's Disease and Other Dementias

Dr. Chang is the Lab Chief for the Laboratory of Neurodegenerative Diseases in the School of Biomedical Sciences, LKS Faculty of Medicine, member in The State Key Laboratory of Brain and Cognitive Sciences, The University of Hong Kong. Dr. Chang is the organizer and Secretary of HKU Alzheimer's Disease Research Network. He organizes International Alzheimer's Disease Conference every year since 2000. This conference is now co-organized by 8 universities and Hong Kong Science Park.

Dr. Chang's research interest is on four directions. (1) Pathophysiological changes of Alzheimer's disease (AD), (2) how different risk factors (post-operative cognitive dysfunctions, periodontitis, depression, cigarette smoking, air pollutants) stimulate systemic inflammation to affect neuroimmune responses leading to AD, (3) spreading of neurodegeneration in Parkinson's disease dementia, and (4) neurodegeneration of the retina and deterioration of visual functions in Alzheimer's disease. He has published over 132 peer-reviewed papers, 14 book chapters and edited 3 books in these areas. His h-index is 39 by Scopus.

Dr. Chang is the Chief Editor for "American Journal of Alzheimer's Disease and Other Dementias", Senior Editor for "Journal of Neuroimmune Pharmacology", Associate handling Editor for "Journal of Alzheimer's Disease", "Frontiers in Neurology", "Frontiers in Neurosciences" and "Frontiers in Psychiatry". He is in the Scientific Advisory Board of International AD/PD Symposium, and Scientific Review Committee in Alzheimer Association. He is the member of editorial board of more than 20 different journals, and grant reviewer for different grant agencies/Foundations.

#### Abstract

Raymond Chuen-Chung CHANG<sup>1,2</sup>, PhD <sup>1</sup>Laboratory of Neurodegenerative Diseases, School of Biomedical Sciences, LKS Faculty of Medicine, The University of Hong Kong<sup>2</sup> State Key Laboratory of Brain and Cognitive

#### Sciences, The University of Hong Kong

One of the increasing challenges for psychiatrist is mental health associated with dementia in patients. This is because anatomical regions for cognitive functions are close to those regions with problems of mental health, including depression, anxiety, apathy, aggression/agitation, and psychosis. Therefore, it is important to revisit definition and current findings about dementia, and even our memory/cognitive functions.

From neuroanatomical and neuropsychological points of view, we can make simple division of our cognitive functions into spatial/learning memory regulated by hippocampus/cingulate gyrus and executive functions regulated by pre-frontal cortex. In addition, we have striatum to help us for habitual and skill learning, cerebellum for sport/activity learning, nucleus accumbens for incentive rewarding motivation for learning, and amygdala for fear-associated learning. Degeneration of neurons in any part will affect our memory and cognitive functions.

For clinicians, you usually observe that patients with dementia is mixed dementia type. However, from scientific research, neuropathological changes start from even 30 years long before clinical symptoms. This is an important first take-home message. This is why we have to investigate different types of dementia. Since stroke and small blood vessels disease (SVD) receive much attention in Hong Kong, we are guite aware of vascular dementia. However, increasing lines of evidence have shown that many risk factors promote Alzheimer's type dementia (Alzheimer's disease, AD), which has definition of dementia with  $\beta$ -amyloid peptide and tau protein phosphorylation as initial pathogenesis. We have also Lewy body dementia (LBD), a second largest group of dementia which comprises of dementia with Lewy's body (DLB) and Parkinson's disease dementia (PDD). We also have frontal temporal lobe dementia (FTLD or FTD), multiple system atrophy (MSA), progressive supranuclear palsy (PSP), and corticobasal degeneration (CBD). With the increasing awareness of cognitive functions, research on cognitive functions has focused on cognitive functions in other neurodegenerative diseases and mental disorders such as multiple sclerosis (MS), amyotrophic lateral sclerosis (ALS), post-operative cognitive dysfunctions, and schizophrenia.

While we have different names of the neurodegenerative diseases depicting the etiology of the disease, the second take-home message is that we have increasing lines of evidence to demonstrate mixed pathology in the late state of AD, PD, LBD, and other neurodegenerative diseases. How does the pathology spread from one type to mixed types and how does the pathology spread from one region to other regions of the brain? All these questions will be the biggest challenges in scientific research. For clinician, detecting cognitive dysfunctions from one domain to another domain will give us more clinical data for neurodegeneration. This is the third take-home message for you.

Acknowledgement: The laboratory is partly supported by Innovative and Technology Fund (ITS/381/15) and Health and Medical Research Fund (02131496).

## Regulation of Human Behaviors: 16:45-17:30, 21 April 2018, Saturday



Prof. LEE Mei Chun, Tatia

Chair Professor of Psychology Endowed Professor of Neuropsychology The University of Hong Kong

Professor Lee is the Chair Professor of Psychology and Endowed Professor in Neuropsychology at The University of Hong Kong. Professor Lee is a co-director of the State Key Laboratory of Brain and Cognitive Sciences of the University. During her tenure at the University, she has received numerous awards in recognition of her excellence in teaching and research.

Professor Lee endeavours to understand how the human brain functions. Her team employs both behavioral and neuroimaging research methodologies and work in collaboration with clinicians and neuroscientists to investigate the neural mechanisms underpinning those social cognitive and affective processes that define the human nature of an individual. She has published extensively, over 200 publications, and in high impact journals, e.g. Molecular Psychiatry and Cerebral Cortex.

#### Abstract

Human brain is known for its ability to regulate behaviors in accordance with the individual's goal and the situational demand. This ability enables us to select the most advantageous choice of behavior that enhances our survival. Previous findings of behavioral and functional imaging studies have indicated that efficient and effective regulation of behaviors depends on the coordinated effort of brain regions that are closely interacting with each other. Yet the quality of their coordinated output can be significantly modulated by emotions and neuropathologies. For example, individuals who are impulsive tend to present an attenuation of activity in the anterior cingulate region and may show an increased neural activity in the right inferior parietal region. In this presentation, behavioral and neuroimaging findings on the regulation of human behaviors will be reviewed, as well as the neural cognitive mechanisms underpinning decision making in people under the influence of depressed moods.

## Free Papers from JSBP: 17:30-18:00, 21 April 2018, Saturday



#### Dr. Shunya KUROKAWA

Department of Neuropsychiatry, Keio University School of Medicine, Japan

Shunya Kurokawa, M.D., is a psychiatrist in Tokyo. He graduated Yamagata University School of Medicine, Japan in 2012. After finishing his 2 year junior residency at Yokohama City University Hospital, he joined the Neuropsychiatry department of Keio University School of Medicine from 2014.

He is currently working as a psychiatrist at Keio University Hospital and a child psychiatrist at Shimada Rehabilitation Center for Disabled Children. His main clinical interests are on Neurodevelopmental disorders, psychosomatic diseases, and mood disorders.

He started his PhD course in 2017 with Dr. Kishimoto's "Integrated Innovation Lab for Psychiatry". His main research interests are on the microbiota-gut-brain axis in psychiatric disorders such as depression, anxiety and neurodevelopmental disorders. He has assessed the effect of Fecal Microbiota Transplant (FMT) to depression and anxiety in patients with IBS, Functional Diarrhea and Functional Constipation, and found that mood may be improved regardless of the gastrointestinal symptom change, and the increase of microbial diversity is related to the effect of FMT. This work is currently in preparation for publish. Also, he has the research license of ADOS-2 (Autism Diagnostic Observation Schedule - 2) and ADI-R (Autism Diagnostic Interview - Revised), planning to do future researches in Autism and ADHD.

Fecal Microbiota Transplantation may have positive effects on Depressive Mood and Anxiety : A Pilot Open-Label Observational Study in Patients with Functional Gastrointestinal Disorders.

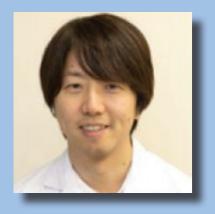
Backgrounds: The "Microbiome-Gut-Brain Axis" is considered as a potential common underpinning pathophysiology of functional gastrointestinal disorders (FGIDs) and psychiatric disorders such as depression and anxiety. Fecal Microbiota Transplantation (FMT) has been reported to have therapeutic effects on diseases related to dysbiosis, but few studies have evaluated its effect on psychiatric symptoms such as depression and anxiety.

Methods: We followed 17 patients with either irritable bowel syndrome (IBS), Functional Diarrhea (FDr) or Functional Constipation (FC) who underwent FMT for the treatment of abdominal symptoms and observation of psychiatric symptoms. Changes in Hamilton Rating Scale for Depression (HAM-D) and subscale of sleep-related items, Hamilton Rating Scale for Anxiety (HAM-A) and Quick Inventory for Depressive Symptoms (QIDS) between baseline and 4 weeks after FMT, and intestinal microbiota using the 16SrRNA metagenome sequencing method were measured.

Results: We observed significant improvement in HAM-D total and sleep subscale score, as well as in HAM-A and QIDS scores (p=0.007, p=0.007, p=0.01, p=0.007, respectively). A subgroup of 8 patients who did not respond to FMT for the gastrointestinal symptoms also showed significant improvement in HAM-A total score (p=0.024) and trend-level improvement for the HAM-D total, sleep subscale score, and QIDS score (p=0.062, p=0.062, p=0.066, respectively). Baseline Shannon index indicated that microbiota showed lower diversity in patients with HAM-D $\geq$ 8 compared to those of healthy donors as well as patients with HAM-D<8.

There was a significant negative correlation between baseline Shannon index and HAM-D score, and a correlation between Shannon index change and HAM-D improvement after FMT. Conclusions: Our results suggest that depression and anxiety symptoms may be improved by FMT regardless of gastrointestinal symptom change in patients with FGIDs, and that the increase of microbiota diversity may help improve patient's mood. Further study with larger sample size with a control group is needed in the future.

## Free Papers from JSBP: 18:00-18:30, 21 April 2018, Saturday



Dr. Shinichi YAMADA

Department of Neuropsychiatry, Wakayama Medical University, Japan

Shinichi Yamada is working as an assistant professor at Department of Neuropsychiatry, Wakayama Medical University, Japan. He received his Ph.D. from Wakayama Medical University in 2015. Main research theme of his postgraduate school was relationship between cognitive function and white matter microstructural abnormalities assessed by DTI in mood disorders (Yamada et al. Journal of Affective Disorders 2015). Recently, he involves in neuroimaging research of cognitive function in schizophrenia. Widespread White Matter Microstructural Abnormalities Related to Cognitive Impairment in Schizophrenia, Bipolar Disorder, and Major Depressive Disorder: A Tract-based Spatial Statistics Study

Shinichi Yamada <sup>a</sup>, Shun Takahashi<sup>a</sup>, Takuya Ishida <sup>a</sup>, Yuji Ohoshi <sup>a</sup>, Tomikimi Tsuji <sup>a</sup>, Masaki Terada <sup>b</sup>, Satoshi Ukai <sup>a</sup>. Department of Neuropsychiatry, Wakayama Medical University, Wakayama, Japan<sup>b</sup>. Wakayama-Minami Radiology Clinic, Wakayama, Japan

Background: White matter (WM) microstructural abnormalities have been observed in patients with schizophrenia (SZ), bipolar disorder (BD), and major depressive disorder (MDD). Extensive evidence suggests that cognitive impairment in SZ, BD, and MDD, but much of its pathophysiology is unknown. The aim of this study was to examine the association between whole-brain WM microstructural abnormalities and their relationship with cognitive function in patients with SZ, BD, and MDD using tract-based spatial statistics (TBSS).

Methods: The subjects were 19 patients with SZ, 20 patients with BD, 18 patients with MDD, and 19 healthy controls. Using TBSS, we examined differences in fractional anisotropy (FA) of whole-brain WM among the 4 groups, and examined the correlations between FA and cognitive performance in the 4 groups.

Results: The FA of WM in widespread regions in the SZ, BD, and MDD groups was significantly reduced compared with those in the HC group. The mean FA of the WM skeleton with statistical differences correlated with performance on the Tower of London in the SZ group, correlated with performance on the list learning in the BD group, and correlated with performance on the digit sequencing task, token motor, and symbol coding in the MDD group.

Conclusions: Our results suggested widespread WM microstructural abnormalities, which were associated with cognitive impairment in patients with SZ, BD, and MDD. This study contributes to the understanding of WM pathophysiology in SZ, BD, and MDD.

## Plenary Lecture: Neurotransmitters and Circuits in the Impulsive Brain 19:00-20:00, 21 April 2018, Saturday



### **Prof David J. NUTT**

Edmund J. Safra Professor, Neuropsychopharmacology Head of Neuropsychopharmacology Unit and Molecular Imaging Imperial College London, United Kingdom

David Nutt is currently the Edmund J Safra Professor of Neuropsychopharmacology and Head of the Neuropsychopharmacology Unit in the Centre for Academic Psychiatry in the Division of Brain Sciences, Dept of Medicine, Hammersmith Hospital, Imperial College London. He is also visiting professor at the Open University in the UK and Maastricht University in the Netherlands.

He currently is the founder Chair of DrugScience.org. uk (formerly the Independent Scientific Committee on Drugs - ISCD) and has held many leadership positions in both the UK and European academic scientific and clinical organisations. These include presidencies of the European Brain Council, the British Neuroscience Association, the British Association of Psychopharmacology and the European College of Neuropsychopharmacology as well as Chair of the UK Advisory Council on the Misuse of Drugs. He is a Fellow of the Royal Colleges of Physicians, of Psychiatrists and of the Academy of Medical Sciences. He is also the UK Director of the European Certificate and Masters in Affective Disorders courses and a member of the International Centre for Science in Drug Policy.

In 2010 The Times Eureka science magazine voted him one of the 100 most important figures in British Science, and the only psychiatrist in the list. In 2013 he was awarded the Nature/Sense about Science John Maddox prize for Standing up for Science and in 2016 an Honorary Doctor of Laws from the University of Bath for contributions to science and policy.

#### Abstract

Impulsivity is a major problem in many psychiatric patients and especially in ADHD and addiction disorders. The talk will explore the role of pre-frontal cortex and sub-cortical processes in regulating impulsivity and explain how drugs such as stimulants and atomoxetine work to restrain this behaviour by redressing a relative dopamine and or noradrenaline deficiency in pre-frontal cortex. Thais relative deficiency means that the pre-frontal cortex then fails to adequately control sub-cortical activity especially in the basal ganglia so allowing impulsivity and hyperactivity to emerge. The new PET data supports the view that low dopamine receptor number in the striatum of pathological gamblers leads to their loss of control and impulsivity particularly in states of urgency.

The new PET and MRI imaging data also explain why there might be a dysregulation of dopamine systems in addiction because of alterations of endogenous GABA-A receptor function and of the endorphin systems in people addicted to either alcohol heroin tobacco or gambling

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## Lunch Symposium: Does Half-Life Matter After Antipsychotic Discontinuation? 12:45-13:45, 22 April 2018, Sunday



Dr. Sofia PAPPA MD, PhD

Consultant Psychiatrist, West London Mental Health Trust Honorary Senior Lecturer, Imperial College London, United Kingdom

Dr Sofia Pappa is a Consultant Psychiatrist at West London Mental Health Trust and an Honorary Senior Lecturer at Imperial College Medical School. Furthermore, she is the Clinical Research Lead and the Recovery Medical Lead for her Trust as well as the NIHR Specialty Lead in Mental Health for the North West London Clinical Research Network.

She has dual training in Neurology and Psychiatry and was awarded a European grant for the completion of her PhD. Subsequently, she obtained a scholarship for conducting postdoctoral research at the Institute of Psychiatry focusing on the neurological dysfunction in psychosis. Other interests include movement disorders and psychopharmacology.

Furthermore, she has significant experience in clinical management, having acted as the Clinical Lead for Adult Services in the past as well as extensive experience in teaching including in her roles as Imperial Medical School Tutor, Recovery College Tutor and main organiser of the annual educational meeting 'Psychiatry Masterclass' with the Institute of Psychiatry.

#### Abstract

Long-acting antipsychotic medication may significantly reduce relapse rates and enhance treatment continuation in patients with schizophrenia (Leucht 2012, 2017). Evidence has also shown that second generation antipsychotic medications are more acceptable to patients (Fleischacker 2009; Marinis 2007).

In my talk, I will present the findings of a large, independent evaluation on the use of second generation long acting antipsychotics (LAI) in my service between 2011-2017, reporting on retention & discontinuation rates as well as compliance rates, community initiation figures and hospital admission rates two years before and after the initiation of LAI. The results showed that introduction of LAI had a significant impact on the long term clinical outcomes in terms of reduced hospitalizations and high continuation and compliance rates in this naturalistic cohort.

Furthermore, I will advocate for the potential benefits of the earlier use of LAIs in the community; both an independent long-term comparative trial by Subotnik and a systematic review by Taylor have highlighted the value of earlier use of LAI preparations in psychosis. Of equal importance, a recent study demonstrated that functioning, including employment, was improved after short-term, once-monthly LAI, and was sustained to 18 months in Asia–Pacific patients with schizophrenia (Zhang, 2017)

Finally, I will provide an overview of the available evidence on the use of latest antipsychotic with an emphasis on the prophylactic value of long lasting formulation in relapse prevention after antipsychotic discontinuation whilst also discussing my own experience with this newly approved ultra-long-acting antipsychotic.

## Plenary Lecture: The Circuitry of Depression: New Findings on Postpartum Depression 14:00-15:00, 22 April 2018, Sunday



### **Prof. Anthony A. GRACE**

Distinguished Professor of Neuroscience Professor of Psychiatry and Psychology University of Pittsburgh, United Sates of America (for bio details, please refer to p.8)

#### Abstract

The period after childbirth (i.e. postpartum period) is a time of elevated risk for the development of affective disorders. Indeed, the highest rates of anxiety and depression occur during the first few weeks, months or year postpartum compared with other times in a woman's life. In accordance, animal models of postpartum depression have also reported time-dependent effects on depressive-like behavior and anhedonia. In rodents, parity (i.e. the condition of having borne offspring) induces changes in DA-mediated behavioral responses, which may reflect some influence on DA neurotransmission. However, the neurobiological underpinnings of this increased female susceptibility to depression during the postpartum period remain poorly understood.

The dopamine (DA) system has traditionally been associated with anhedonia, the inability to derive pleasure from normally rewarding stimuli, and has been implicated repeatedly in the pathophysiology of depression. A causal link between a hypofunctioning DA system (i.e. decreased DA neuron activity) and stress-induced depression-related behaviors (i.e. anhedonia, despair, anxiety) has been demonstrated in animal models, with females showing greater responses. Surprisingly, little is known about DA system function in females following reproductive experience, including parity.

Compared to virgin females, early postpartum females exhibited higher levels of anxiety and reduced social motivation. Moreover, similar to rats exposed to three other models of depression (i.e., learned helplessness, amphetamine withdrawal, and chronic mild stress), postpartum females exhibited an attenuation of DA neuron population activity, as indexed by a reduction in the number of spontaneously firing neurons per electrode track in the VTA, compared with virgin rats. Collectively, our findings suggest that parity can drive changes in affective behavior (i.e. increases anxiety-like behavior) and reduces social motivation during the early postpartum period and that these behavioral changes are associated with an attenuation of DA activity within this period.

## Plenary Lecture: Addiction From Brain Mechanisms to New Treatments 15:15-16:15, 22 April 2018, Sunday



**Prof David J. NUTT** 

Edmund J. Safra Professor, Neuropsychopharmacology Head of Neuropsychopharmacology Unit and Molecular Imaging Imperial College London, United Kingdom (for bio details, please refer to p.13)

#### Abstract

Addiction is a complex set of disorders in which both the entry factors and restraining factors are important. Entry factors include features suc has drug likeing and reward but also self-medication for stress-related disorders such as depression and PTSD. Some people just find that taking drugs makes then :whole" or gives meaning to their lives so find it hard to stop. The mechanisms underlying these processes are beginning to be understood and new treatments are being developed based on these. It turns out that dopamine has much less of a role to play in reward and the initiation of drug use than was previously thought and our own research suggests that the endorphin system may be crucially involved in some patients.

Addiction also is a form of (aberrant) learning and recent research suggests that alterations in the GABA-A system, a critical moderator of glutamate-induced learning, is abnormal in people addiction, particularly a newly discovered subtype the a5 GABA-A receptor which has a largely limbic distribution in humans. This discovery too offers a new potential approach to treatment development.

Finally Prof Nutt shall explore the greatest challenge in addiction treatment today – keeping people who have become abstinent drug free when they experience pressures to resume drug-taking. Currently for opioid addiction the only options are substitute medicines such as methadone and buprenorphine that reinstate addiction with a safer alternative drug or naltrexone which has low compliance. He will share data from our new large imaging study – IC-CAM- that has used fMRI and drug challenge techniques to explore stress, reward and impulsivity systems in abstinent alcoholics and heroin and cocaine addicts. In this group we have tested a number of non-addictive drugs and shown some to moderate the fMRI brain responses in a manner that could indicate therapeutic potential.

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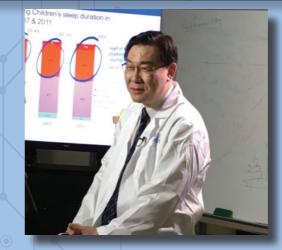
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#### Neurobiology of Sleep: 16:15-17:00, 22 April 2018, Sunday



#### **Prof WING Yun Kwok**

Chairman and Professor, Department of Psychiatry Associate Dean (Student Affairs), Faculty of Medicine, The Chinese University of Hong Kong Director of the Sleep Assessment Unit, Shatin Hospital

Professor Wing graduated from The Chinese University of Hong Kong, Hong Kong SAR, China. He is currently the Chairman and Professor in the Department of Psychiatry and Associate Dean (Student affairs) of the Faculty of Medicine of the Chinese University of Hong Kong. He is also the Director of the Sleep Assessment Unit of Shatin Hospital. He has been the Honorary Chief of Service in the Department of Psychiatry in both Shatin Hospital and Prince of Wales Hospital since 2003.

Professor Wing has diverse research interest in sleep and circadian medicine, psychiatric disorders, neuropsychiatry, and transcultural psychopharmacology with extensive publications in international journals. He is actively contribution to the scientific communities, including his leadership service role in the Hong Kong Society of Sleep medicine (ex-President, HKSSM) and Asian Sleep Society of Sleep medicine (ASSM, Vice-president (Research), Hong Kong Society of Biological Psychiatry (Committee member and Chairman of scientific committee). Furthermore, he also involved in the Collegium Internationale Neuropharmacologicum (Local organizing Committee of biennial CINP symposium, 2010), World Association of Sleep Medicine (Scientific Committee, 2011, 2013 and 2015) and World Sleep 2017 (Scientific Committee).

He has published more than 200 peer refereed publications and 6 book chapters. His current H-index is 48 (Google Scholar); 39 (Scopus) and 35 (ISI) (Aug 2017) respectively. He has given a number of plenary lectures in international and national sleep meetings including World Association of Sleep Meicine (WASM) 2015 (Korea) and Asean Sleep Congress 2015 (Singapore). He and his research group has established the first local epidemiological data of various sleep disorders including insomnia, narcolepsy, and parasomnia since 2 decades ago. Furthermore, he has constructed a RBD screening and severity scale – RB-DQ-HK, which has been translated and used by a number of other research groups. In addition, he has recently conducted a large scale of cluster RCT study on sleep education in Hong Kong children and adolescents.

Professor Wing was awarded the distinguished national award for Sleep Medicine Scientific Technological Advance in China by the Chinese Medical Doctor Association at 2010 and distinguished contributions to the development of sleep medicine and sleep research by Chinese Sleep Research Society at 2016. He was also awarded the Teacher of the Year Awards, Faculty of Medicine, CUHK in 2012-13.

#### Abstract

Sleep is an essential part of human functioning. Recent advances in understanding sleep-related neurocircuitry and the discovery of its importance in metabolic clearance and memory consolidation have given new impetus of understanding its links with health and diseases. In this lecture, we will review some of the latest findings on the basic and clinical sciences of sleep and sleep disorders from neuroscience and psychiatric perspectives. We will discuss the associations of sleep disorders with neuropsychiatric disorders by using insomnia and REM sleep behavior disorder as examples. In addition, the roles of circadian rhythms on mood disorders will be also discussed.

### **Notes to Delegates**

**Meeting Organizer** Hong Kong Society of Biological Psychiatry

**Meeting Secretariat** c/o Kays Asia (Hong Kong) Ltd. Tel: +852 9658 9650 Fax: +852 3010 8969 E-mail: enquiry@hksbp.org

Meeting Date 21-22 April 2018, Saturday and Sunday

#### **Meeting Venue**

Sung Room, 4/F, Sheraton Hong Kong Hotel & Towers, 20 Nathan Road, Kowloon, Hong Kong

#### **On-site Registration**

The registration counter is located at the entrance of meeting room. For on-site registration, payment must be made in cash in HK dollars.

**Registration Fees** 

HKSBP Members	Free of charge
Non-HKSBP Members	HKD 450
Students*	HKD 50

\*It is limited to Undergraduates & Postgraduates of Neuro-science, Mental Health and Medicine related subjects. An official document from the appropriate department for verification is required.

#### **Registration Entitlement**

Fully registered participants are entitled to:

- Entry to all scientific sessions
- Visit the exhibition
- A full set of official publications
- A certificate of attendance
- Attend the dinner conference, lunch symposia and tea refreshments

#### Identification Badge

Each participant will receive a badge and a programme book upon check-in at 11:30 on both dates. The registration counter is located at entrance of meeting room. Please wear your identification badge at all times during the event, as it serves as your admission to all scientific sessions, tea refreshments, lunch and dinner.

#### **Academic Accreditation**

Continuing Medical Education (CME) credits have been applied from different medical colleges in Hong Kong. To obtain CME accreditation, please signify your attendance at the CME sign-in desk, which is located at the registration counter.

#### **Official Language**

The official language of this meeting is English. No simultaneous interpretation will be provided.

#### Exhibition

The exhibits are located at the same floor as meeting venue. The opening hours of the exhibition runs from 12:00-18:30 on 21 April 2018 and 12:00-17:00 on 22 April 2018. The 2 lunch symposia are sponsored by Lundbeck and Janssen respectively on 21 and 22 April.

#### **Meal Arrangement**

Tea break, lunch and dinner will be served in the same meeting venue.

#### Insurance

The organizing committee of the 11th ASM does not responsible for personal accident and/or damage to the property of participants. Participants should make their own arrangement for personal insurance.

#### Lost and Found

Please take good care of your personal belongings. Do not leave them unattended. Neither the Meeting Organizer nor the Meeting Secretariat will be responsible for any loss or damage of your personal properties. Should you require any assistance, please contact our staff at the registration counter.

Photo Taking, Audio Recording and Video Shooting No photo taking, audio recording and video shooting are allowed in the meeting rooms unless permission is granted.

#### **Smoking Policy**

Sheraton Hong Kong Hotel and Towers is a smokefree premise. No indoor smoking is allowed.

#### **Acknowledgments**

The Organizing Committee would like to extend their heartfelt thanks to the following sponsors for their generous support in making a great success of the 11th ASM.

### **Acknowledgments**

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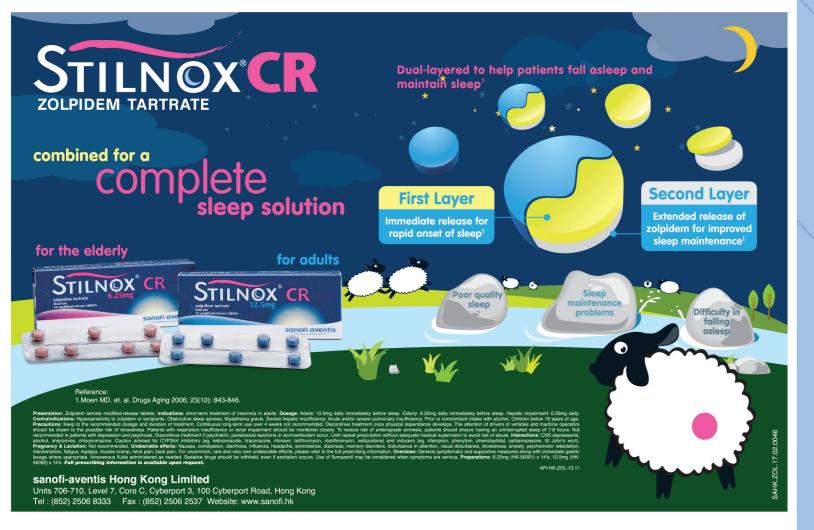
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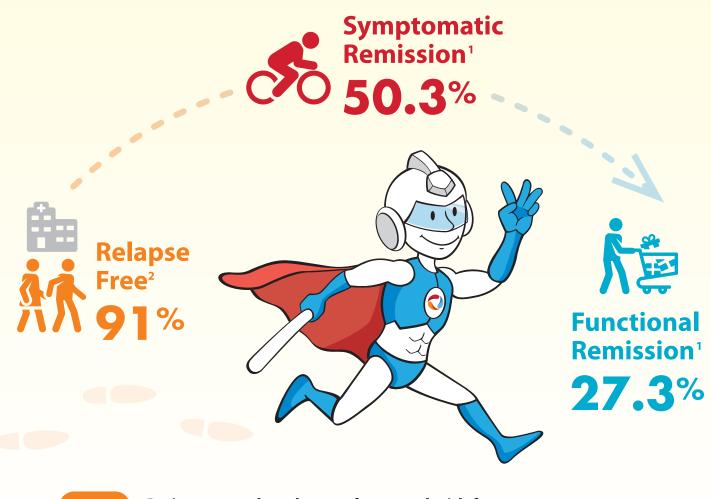
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References: 1. Savitz A et al. Int Clin Psychopharmacology 2017, Vol32, No.6:329-336. 2. Savitz A et al. Int J neuropsychopharmacol 2016:1-14. 3. Invega Trinza USPI Mar2016;[Hong Kong approval date: 25Jan2017].

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