

# catalyst



## ACCELERATING RESEARCH

March 2009

MICA (P) 181/02/2009 • A BI-MONTHLY NEWSLETTER FOR THE RESEARCH COMMUNITY IN SINGAPORE

# Research on Research

Studying how researchers work to improve their  
productivity, quality, and cost-benefit



# It's all about PASSION

Dr Lawrence Lee pours his thoughts on his passion for research  
Exclusive Interview with Dr Toh Khai Lee



Adding years of healthy life

# Contents

**2 Research on Research** The group at Duke-NUS Graduate Medical School undertakes the study of research systems to improve the quality, productivity and cost-benefits of research outputs. Read in detail to find out how the team can help you achieve a smoother journey in pursuing your research interests.

**4 My Research Passion** Do you have a burning desire to break out of the clinical pod and take root in research soil? Dr Lawrence Lee, Associate Consultant in Infectious Diseases (TTSH), shares his leap of faith into a research career that has opened doors of excitement and opportunities. He has never looked back since. Find out more on the NHG Investigator-Clinician Career Development Scheme and what it can do for you.

**6 Are you Passion Driven?** When the going gets tough, do you hang up your lab coat and call it a day? Dr Toh Khai Lee, Senior Consultant at the Department of Urology (TTSH), shares one-on-one with our correspondent on his perseverance to strive despite having faced setbacks, and the taste of sweet success at the top of the world.

**9 Lifelong Learning.**  
*"All the world is a laboratory to the inquiring mind." ~ Martin H. Fischer*  
The NHG Research & Development Office constantly seeks to bring to the community courses that equip the researcher with skills and knowledge to achieve his research goals. Courses that are scheduled for the first quarter of 2009 can be found in our website at [www.b2bresearch.nhg.com.sg](http://www.b2bresearch.nhg.com.sg)

## Research & Development Office



### Editorial team

Adeline, Alvin, Farah, Karabee, Kin Poo, Louise, Norsalleha, Renuka, Wenald and Zawiyah

## From The Editor-in-Chief

### Dear Colleagues and Readers,

For the past 2 years, NHG Research Newsletter has played an instrumental role in conveying the overview of various research activities within and outside NHG. Moving forward, we aim to keep our reader widely informed and interested in basic, translational and clinical research activities and information, and to promote interaction and collaboration among clinician investigators and basic scientists from different fields.

We are seeking to move away from formal and structured presentation of activities to provide investigators and scientists an opportunity to actively contribute to the newsletter.

Starting with this inaugural issue, the newsletter is getting a new "look". We have chosen "Catalyst" as the theme of

this newsletter to signify the importance of collaboration and interaction among clinician investigators and basic scientists to promote and accelerate research. This is also in alignment to Singapore and NHG's research strategy to promote translational and clinical research. Catalyst aims to play the pivotal role to bring clinician investigators and basic scientists together through information sharing and generating high quality research that will ultimately bring benefits to our patients and add years of healthy life to our people.

I hope you will enjoy reading this issue and we welcome your feedback on any aspect of the newsletter.

With best regards,

**Kin Poo**

### DID YOU KNOW...

That the NHG Annual Scientific Congress 2008 had

- 4,000+ participants
- 52 Scientific Tracks
- 256 Local Speakers
- 25 Overseas Invited Speakers
- 438 Scientific Abstracts

The ASC Committee sends its congratulatory notes to the winners of the scientific oral & poster competitions. Details of winners on the last page of this newsletter.

## Your Newsletter, Your Comments

Do you have any of these:

- Research articles to share?
- Research topics that you want covered?
- Comments/Feedbacks on published contents of this newsletter?
- Comic strips/cartoon illustrations that is science/research-related that can bring smiles to your colleagues?

If you have answered "YES" to any of the above, we invite you to write in and share with us your thoughts, feedback on published articles or cartoon clips (original materials, jpeg format please).

And if your contribution is accepted for print, we will send you a token of appreciation, with compliments from the Editorial team!

Own this newsletter, send us your contributions and add your personal touch today!

Modes of contribution:

### By Mail

Editorial Team – Catalyst Newsletter  
Research & Development Office  
National Healthcare Group Pte Ltd  
6 Commonwealth Lane  
#04-01/02 GMTI Building  
Singapore 149547

### By Email

[rdo-rtdu@nhg.com.sg](mailto:rdo-rtdu@nhg.com.sg)

Do remember to add in your contact details, where applicable, for our future communications with you:

- Name
- Department & Institution
- Mailing address
- Contact numbers (telephone & mobile); and
- Email address

**The Editorial Team**

# Translational and Clinical Research (TCR) Flagship Programme on Neuroscience

Vulnerability, Disease Progression, and Treatment in Schizophrenia and Related Psychoses

---

**A/Prof Chong Siow Ann**

Vice Chairman Medical Board (Research)  
Institute of Mental Health / Woodbridge Hospital

---

Schizophrenia and related psychotic disorders are among the most disabling disorders to afflict mankind. It is one of the world's greatest public health concerns with schizophrenia listed as among the 5 leading causes of disability worldwide. In Singapore, schizophrenia ranks ninth (together with breast cancer) among all the various diseases in terms of the burden of disease that it causes due to both premature mortality and disability arising from the disease. While its cause is not fully understood, there is a strong genetic basis – making genetic risk factors key targets for research – its low prevalence presents a challenge for the identification of such risk factors and ultimately the identification of individuals who will develop the illness, prior to its onset. And it is vitally important to identify and treat those with psychosis as earlier as possible. The suppositions that disorders were almost inevitably chronic with bleak outlook were refuted by an emerging body of studies which demonstrated that special focus on the early phases of illness could result in a substantial reduction in morbidity (i.e. reduction in disabilities, hospitalization, disruption in family, suicides and costs), an improved quality of life for patients and their families, and improved functional outcomes.

In addition, the current treatments are lacking. Current antipsychotic medications improve psychotic symptoms but are associated with a variety of side effects – some would cause some form of motor movements disorders while others cause weight gain, and a higher risk of developing diabetes. These



A/Prof Chong Siow Ann

drugs also do not reverse the disease process nor reduce the range of cognitive impairments that are core features of schizophrenia and which causes the great social and occupational disabilities.

It is these urgent issues that make it imperative to understand the disease process better and develop better ways of helping these individuals.

The overall objective of this 5-year TCR Neuroscience Flagship Programme is to identify key genetic, biological, cognitive, clinical and social risk factors for psychotic disorders, and to establish the efficacy and safety of a neurocognitive-enhancing agent for patients with schizophrenia.

The enormous task of this programme is to be undertaken by a Consortium which is led by A/Prof Chong Siow Ann and includes internationally recognized scientists from various institutions in Singapore including the Genome Institute of Singapore, Duke-NUS GMS, Clinical Trials and Epidemiological Unit, as well as from Duke University and the University of Melbourne.

The benefit of this programme is not just the significant contributions to the basic understanding of the disease process that it will bring – enabling the translation of these findings to clinical care, but it will give clinicians better means of identifying individuals who are at imminent danger of developing psychosis. These would enable very early intervention and the prevention of complications and disabilities. It would also pave the way for more effective treatments.

The huge amount of information that will be generated will also address some of the real-world questions that mentally unwell persons, their families, providers, payers and policy makers face in selecting, delivering, and financing optimal care.

We would like to congratulate our Principal Investigators, Associate Professor Leo Yee Sin, from the Communicable Disease Centre at Tan Tock Seng Hospital and Associate Professor Chong Yap Seng, from the National University Health System, for recently being awarded the Translational and Clinical Research Flagship Programme. A/Prof Leo's team will look into the development of evidence-based case management and disease prevention for Dengue. A/Prof Chong's team will study pregnancy and early childhood factors that lead to increased risks for diabetes and obesity in later life. We wish them every success in their investigational studies.





# Research on Research

Studying how researchers work to improve their productivity, quality, and cost-benefit.

**Ricardo Pietrobon, MD, PhD**

**Dimple Rajgor**

**Jatin Shah**

Duke-NUS Graduate Medical School

Imagine Dr. Esther, a fictitious busy clinician seeing about 80 patients a day in her clinic. During her practice, Dr. Esther is constantly having questions that bio-medical researchers have not answered yet. For example, if she were to use a combination of Western and Traditional Chinese Medicine (TCM), would her patients with low back improve faster than those just receiving Western treatments? What are the outcomes of treatment with TCM as compared with Western medicine? What is the difference in outcomes for Caucasian and Indian patients? These are all nice questions and definitely worth responding, but after a busy clinical day, when she gets home, Dr. Esther has almost no time to explore her research interests. Still, her



Ricardo Pietrobon, MD, PhD

research insights are definitely worth pursuing. Is there a potential solution to this dilemma?

Attempting to help Dr. Esther and other clinicians with the same problems, is one of the primary goals of the Research on Research group at Duke-NUS. Working in the Department of Health Services Research (HSR), our group's formal goal is to "study research systems to improve their quality, productivity, and cost-benefit." What this means is that we study how researchers do their research, what problems they encounter during these activities, and we then propose solutions on how to approach these problems. Let us now go back to some specific problems faced by Dr. Esther and see how they would be addressed from a Research on Research perspective.

In order to be able to answer her question, Dr. Esther should first determine whether somebody around the world has ever collected data on patients with low back pain using either Western or TCM. This is a difficult task, since most researchers

will not publicly announce that they have a database. In response to this challenge, the Research on Research group recently established a collaboration with Dr. Min-Yen Kan, Assistant Professor in the NUS Department of Computer Science. This collaboration will allow for existing publications in the biomedical field to be “mined” for information on existing available databases in the medical literature. From this search, a web site can be created so that Dr. Esther can then easily detect a database containing the data she needs to answer her research question.

But simply finding a database is not enough, Dr. Esther needs assistance formulating a research question that will later be answered through a series of statistical analyses. But how can that be done if Dr. Esther does not have any formal training in biostatistics beyond a basic course during medical school? In this context, the Research on Research

group has been conducting a number of studies in collaboration with cognitive psychologists and qualitative researchers to evaluate communication patterns between statisticians and clinicians. These studies have as their goal to find a common language that would allow this communication to be as successful and streamlined as possible. Based on these projects, our group has now developed a number of standard protocols that allow for clinicians to clearly articulate their clinical research ideas in a format that statisticians will understand, while we have also created documentation that will allow clinicians to understand statistical results when they return from the statisticians. The results so far have been very satisfactory, a large number of publications by residents, fellows and even medical students in top peer-reviewed specialty journals – a list can be found at <http://www.researchonresearch.org/?q=node/2>

At last, with such a busy clinical schedule, just the thought of having to write up these results so that they can be submitted to a scientific, peer reviewed journal, makes Dr. Esther tremble. Once again, the Research on Research group has investigated this issue in a series of joint studies involving specialists in linguistics. The end result is a series of writing templates that assist researchers to write better and faster, thus decreasing the “fear of a blank page.”

All of these methods are now being taught to healthcare professionals of all specialties (Medicine, Nursing, Physical Therapy, among others) and all levels (students, residents, fellows, established professionals) at a Certificate Course in Outcomes Research developed by Duke-NUS (<http://www.duke-nus.edu.sg/ccor/index.php>).

We definitely look forward to working with you in the near future!

## Facts about B2BResearch Online

you’ve always wanted to know but were just too busy to ask (Part 1 of 2)

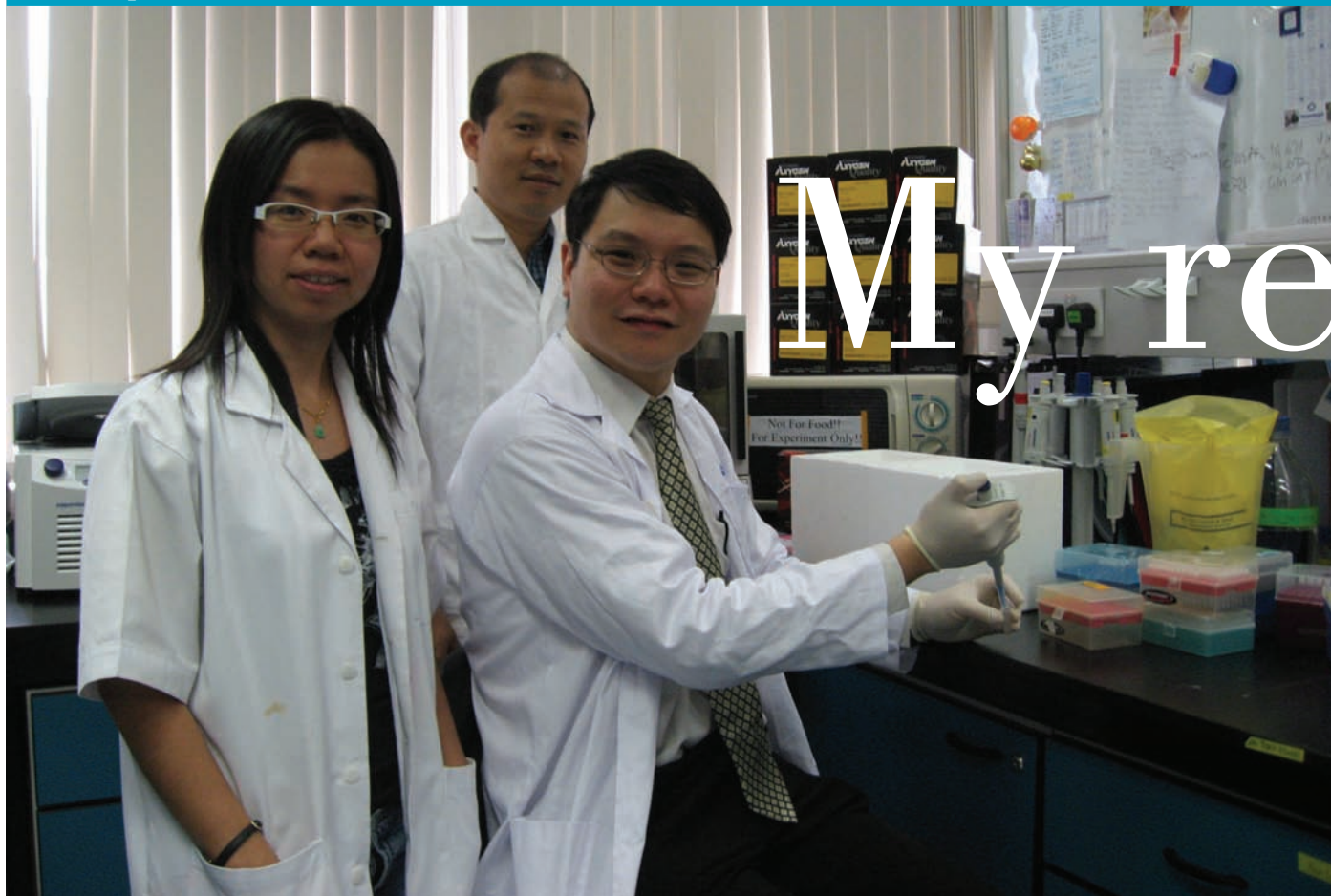
*From 1 Feb 08, the Domain Specific Review Boards will cease to accept new DSRB Applications in hardcopy form. Investigators will be required to register for their B2BResearch Online accounts and submit their new DSRB Applications via the B2BResearch Online system.*

*The B2BResearch Online portal is for all who want to know more about the research services, research-related training courses and the research activities at NHG.*

**I** What is a “Staff with NHG Active Directory login” account? How is this different from a “Staff without NHG Active Directory login” Account?

The “Staff with NHG Active Directory login” account refers to the login credentials that the NHG IT Department creates for NHG Staff. This set of login credentials is more commonly known as the “Username and Password” that NHG Staff use to login onto their Computers.

If a user does not have an Active Directory account, they can create a B2BResearch Online account through the “Staff without Active Directory login” account type. Users must have an email account which belongs to NHG (eg: johnsmith@nsc.gov.sg, johnsmith@ttsh.com.sg etc). This is to verify that the person is indeed a NHG Staff member. The user will then have to choose and remember another set of username and password.



**Dr Lawrence Lee Soon-U**  
Associate Academic Consultant  
Associate Consultant in Infectious Diseases,  
Tan Tock Seng Hospital

I always had an intellectual curiosity about the world so my passion for research came naturally. When I started my medical training, I was struck by the fact that there is little data to inform the decisions that we make in patient care. In particular there is much uncertainty about how drugs work and how to optimize their dosages to increase efficacy while improving safety. Thus my interest in Clinical Pharmacology started. As the subspecialty of Clinical Pharmacology does not exist in Singapore, I decided to train in Internal Medicine and Infectious Diseases while waiting for the opportunity to train in my desired area. By God's grace, this opportunity came when I got a US scholarship grant to study drug interactions between herbal medicines

and anti-HIV drugs at the Johns Hopkins University in Baltimore, USA. The PhD and post-doctoral fellowship training which I received was first grade, but the most important aspect was being able to meet and work with other people with the same passion to improve drug therapy for patients. Since then I have been greatly blessed in being able to travel around the world to present data and exchange ideas with a wide variety of very intelligent and passionate people in the international medical research community.

I joined the NHG Investigator-Clinician (IC) Career Development Scheme in November 2007 after completing my overseas training, to continue my research activities. From the Scheme, I have been given much freedom to pursue my chosen field of Clinical Pharmacology in various contexts, particularly in Infectious Diseases and Oncology, where this field is particularly interesting. My current research projects involve studying the



Dr Lawrence Lee Soon-U

increasingly important phase 2 metabolic enzymes and optimizing combinations of anti-HIV drugs. The Singaporean population offers unique opportunities to study differences in how the body handles drugs and individualizing therapy. The levels of enzymes in the Chinese and



# earch passion

other local ethnic populations can be quite different from the Caucasian population where most of our drug data comes from. Thus following dosage guidelines found in the drug insert and those used for other countries may not be optimal for our patients. Much research work needs to be done to optimize the usage and dosages of drugs in our population.

The IC Scheme provides an optimum balance of research and clinical care. The clinical care component allows us to keep in touch with the needs of our patients without being overwhelmed by service responsibilities. This balance allows us to keep our focus on reviewing, generating, analyzing and sharing data to help patients, instead of getting bogged down doing routine clinical care where doctors often default to using anecdotal or poor quality evidence. The data that researchers produce is generalizable and will improve the care of thousands of patients worldwide, including those who are not under our care. Therefore, I would highly encourage young doctors and health care professionals to consider going down this research route as there are potentially great rewards in discovering the wonders of the human

body. Opportunities to study significant clinical problems are endless and there is great personal and intellectual satisfaction in becoming part of the global medical research community.

*Dr Lawrence Lee was awarded the NHG Investigator-Clinician Career Development Scheme in 2007. He conducts his research at the National University of Singapore and his focus is on identifying enzyme inducers in humans to prevent diseases, prevent drug interactions involving anti-viral / anti-cancer drugs and optimize drug dosage. Dr Lee's current study is on Phase 2 metabolic enzymes (P2Es) and its association with cancer prevention and anti-oxidant activity. To communicate directly with Dr Lee on his research and collaborative work, please email him at [lawleesu73@hotmail.com](mailto:lawleesu73@hotmail.com).*

**Next issue** Dr Melvin Leow, Academic Consultant, Department of Endocrinology (TTSH), shares his life-changing decision, made at the cross-road of his medical career.

The NHG Investigator-Clinician Career Development Scheme is in support of NHG clinicians who wish to pursue research as their primary career. The scheme provides a career backbone for investigator-clinicians, bridging grants for 100% salary support, evaluates research performance for career advancement, and allow for joint appointments across the NHG Cluster, Research Institutes, Academia and Industries. This scheme aims to foster competitiveness and collaboration in one's research.

To find out more about this scheme, please send your enquiries to [rdo-rtdu@nhg.com.sg](mailto:rdo-rtdu@nhg.com.sg).

## Facts about B2BResearch Online

you've always wanted to know but were just too busy to ask (Part 1 of 2)

## 2 When to use the DSRB Application Form Non-Exempt Category (Application Form 1) and Exempt category (Application Form 2)?

**DSRB Application Form 1**  
**Non Exempt category** Principal Investigators should use this Application Form if their research activity involves any of the below: Clinical Trial (drug/device), Medical Records Review, Questionnaire/survey/focus group/interview, Clinical Research (collection of blood/tissue samples, collection of identifiable data).

**DSRB Application Form 2 Exempt category** Principal Investigators should use this Application Form for research that meets the criteria for exemption, such as research involving anonymous data or tissue that has been collected previously, surveys without identifiers etc.



# Are you passion driven?

An Exclusive Interview with Dr Toh Khai Lee, Tan Tock Seng Hospital

Dr Toh (extreme left) and his study team

**Ms Louise Goh**  
Research & Development Office

**O**prah Winfrey once said “Do the one thing you think you cannot do. Fail at it. Try again. Do better the second time. The only people who never tumble are those who never mount the high wire. This is your moment. Own it”.

Passion spurs one on, brings one to higher heights and to sweet successes.

Dr Toh Khai Lee from the Department of Urology, Tan Tock Seng Hospital (TTSH) is an example of a clinician with great passion for research. Despite receiving more rejected letters on grant applications than accepted awards, he continued to persevere and produced research of high quality standards and research outcomes. This spirit of motivation and passion has

led Dr Toh and his study team to become the first research group from a Singapore Hospital and in the region to be invited to take part in a global multi-centre research trial, titled, ‘A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study of the Safety and Efficacy of a Single Treatment with Two Dose Levels of BOTOX® (Botulinum Toxin Type A) Purified Neurotoxin Complex Followed by a Treatment with BOTOX® in Patients with Urinary Incontinence Due to Neurogenic Detrusor Overactivity’. It is indeed a great achievement for our TTSH colleagues!

Dr Toh shared with me that, both his colleague Dr Adela Tow of TTSH Rehabilitation Medicine and himself ran 2 NHG SIG trials on similar cohort of patients. This caught the attention of the manufacturer of the medication who





## Facts about B2BResearch Online

you've always wanted to know but were just too busy to ask (Part 1 of 2)

then ran a workshop that was attended by regional urologists. The company was impressed with the work done by the TTSH team and invited the Hospital to be part of this global multi-centre trial.

The trial is about the use of botulinum toxin type A (Botox) to control urinary leakage in patients with spinal cord injuries or multiple sclerosis. This trial proved to be challenging as the inclusion criteria is very strict. Despite this being a challenging research study, Dr Toh maintains a positive attitude and is filled with enthusiasm. He told me that running this trial has been a great learning experience for him. The amount of paperwork is incredible; he wanted to put on record his appreciation of Ms Sharen Ng, his research coordinator from the Clinical Research Unit (CRU) of TTSH and Dr Priti Minhas from the CRU

who helped him with managing the budget for this trial. It would be impossible for clinicians with a heavy workload to do this, without the help and support from the CRU.

Dr Toh concluded by sharing his personal views of the research landscape in Singapore. As a broad stroke, he feels that we are moving in the right direction and the devil is in the details. One of the difficulties is creating a culture of asking questions and making the effort to find the answers.

I hope this article will serve as an inspiration to our new investigators who are embarking on research.

Let passion be the motivation behind the research which you do!

### 3 Why can't I get someone else to complete & submit an online DSRB Application on my behalf?

Yes, Principal Investigators can delegate the task of completing the online application form to someone else. However, in order to do so, the PI must initiate a new Application form with their own accounts. The minimum that the PI needs to do is to enter a Study Title and nominate a Protocol Administrator or a Study Team Member. Once that is done, the application form can be saved as a draft and the nominee can assist in completing the application form from there on. Once completed, the PI must then review and submit the online application form.

*“All the world is a laboratory to the inquiring mind.”*

Martin H. Fischer

The NHG Research & Development Office constantly seeks to bring to the community essential courses to equip the researcher with the necessary skills and knowledge to fulfil his research goals. Visit our website at [www.b2bresearch.nhg.com.sg](http://www.b2bresearch.nhg.com.sg) for more details and updates of the series of courses lined up for you.

### Proper Conduct of Research

This course aims to (i) develop the researcher with a fundamental knowledge of the Standard Operating Procedures in Proper Conduct of Research; (ii) familiarise the researcher with the key regulatory guidelines and principles in conducting clinical research; (iii) equip the researcher the skills to prepare the

study site for pre-, during & post-site monitoring visits; (iv) train the researcher in developing various types of study designs to suit the nature of their clinical research; and (v) value-add the research partnership between investigators and sponsors.

### Research Methodology

The Basic Biostatistics & SPSS workshops emphasize on the application of hypothesis tests and statistics analysis using the SPSS software. This course is designed for all researchers who require basic knowledge of biostatistics analysis. No prior knowledge of statistics or use of SPSS software is required.

The Intermediate course will cover regression and survival analysis. This course will build upon the basic knowledge of

biostatistics and will encourage the participants to conduct statistical analysis using the various available techniques.

Participants will be challenged with guided exercises and hands-on SPSS sessions at the respective workshops.

### Grantsmanship

The formulation of ideas, hypothesis, methodology and budgetary requirements into succinct research proposals often proves to be a challenge for young investigators. The road gets more challenging when collected research data are analysed and sound conclusions are to be drawn for presentations at conferences or

publications in renown journals. The series of lectures under this course serve to take the participant from grant proposal preparatory phase, to the gathering of meaningful research data, to the presentation of data into effective presentations, to write a concise and targeted research paper for publication.

### Facts about

### B2BResearch Online

you've always wanted to know but were just too busy to ask (Part 1 of 2)

**4** Do I need to submit multiple applications for each NHG Study Site?  
No, the NHG Principal Investigator only needs to make one complete application to the DSRB for multi-site studies conducted within NHG.

**5** What is a Protocol Administrator? Who can be one?  
Protocol Administrators are persons who are responsible for administrative matters related to the Study. They can be the Study Coordinators, Research Nurses or Clinical Research Associates, and need not be part of the Study Team. Protocol Administrators have the same access rights to the virtual Study folder and may also assist the PI in completing the various online forms and reports, however, only the PI may 'submit' these online forms and reports to the DSRB.

Tune in to our next issue for more questions on the B2BResearch Online!

## Research Ethics

The series of courses under this covers (i) the organisation structure of the Domain Specific Review Boards (DSRB), its roles and responsibilities in protecting the rights, safety and well-being of research participants; (ii) the basic elements of an informed consent form and the responsibilities of the Investigator for Informed Consent Process and Informed Consent Documentation; (iii) the essentials to proper documentation of data in a clinical study and the various methods employed in subject recruitment; (iv) the guidelines related to investigational product management and safety reporting in clinical trials; and (v) the procedures for audit preparation, audit checks and follow-up procedures.

## Health Services Research

Participants to this course will be introduced to the nature of Health Services Research, be familiarised with the applications of health services research and the various tools and methodologies used in its implementation, and the challenges faced in conducting health services research. Other courses and workshops conducted under this programme will also cover the definitions of, conceptual and methodological issues in patient reported outcomes / quality of life assessment. Participants will also learn about the creation of linkage keys that enable disparate clinical and administrative data sets to answer important questions about the health system and how these can be used to evaluate the patterns and outcomes of medical care.



**Bayer HealthCare**  
**Bayer Schering Pharma**



Bayer HealthCare is a globally diversified healthcare company. With R&D spending of EUR 1.7 billion in 2007 it accounted for 66 percent of all R&D expenditures in the Bayer Group. Its pharmaceutical segment, **Bayer Schering Pharma** concentrates its R&D activities on the identification and development of new active substances for diseases with a high medical need in four core areas: Oncology, Cardiology, Women's Healthcare, and Diagnostic Imaging.

In the Asia Pacific, our strategy is for these countries in the region to play a more important part in our global clinical trial activities, with the goal to share expertise with investigators and to provide faster access for patients to new and innovative therapies.

In Singapore, **Bayer Schering Pharma** recently entered into a cooperation for pre-clinical cancer research with the National University of Singapore. The cooperation aims to profile oncology drugs in Asian populations, to identify novel biomarkers and to investigate novel tumor models with high relevance for the clinical situation.

Supporting these activities, **Bayer Schering Pharma** has established a strong and growing clinical operation team that engages major restructured hospitals in conducting clinical trials in six therapeutic areas.

**Contact details:** Bayer (South East Asia) Pte Ltd

63 Chulia Street, OBCB Centre East, 13<sup>th</sup> Floor, S'pore 049514 • Tel : 6496 1888

Or email Dr Jerry Chng at [jerry.chng@bayerhealthcare.com](mailto:jerry.chng@bayerhealthcare.com)



# NHG Annual Scientific Congress (ASC) 2008

7-8 November 2008 • Suntec Singapore International Convention & Exhibition Centre

*The NHG ASC 2008 Committee congratulates the following list of scientific award recipients.*

## NHG Doctor Award

### Recipient

A/Prof Jimmy So (Gold Award)  
Dr Colin Tan (Silver Award)  
Dr Thomas Lee (Bronze Award)

### Institution

NUHS  
NHG Eye Institute  
IMH

## NHG Young Investigator Award

### Recipient

Dr Soon Chao Yang (Clinical Research – Gold)  
A/Prof Leonard Ang (Basic Science – Gold)  
Dr Foo Chik Loon (Health Services Research / Quality – Gold)

### Institution

AH  
NUHS  
TTSH

## Best Oral Presentation Awards

### Recipient

Mr Teh Seng Khoon (Allied Health)  
Ms Lim Yen Peng (Allied Health)  
A/Prof Lynne Lim (Basic Science)  
Mr Ho Quan Yao (Primary Care)  
A/Prof Yeoh Khay Guan (Medical Disciplines)  
Ms Toh Hai Moy (Nursing)  
Dr Yvonne Ng Peng Mei (Health Services Research / Quality)  
Dr Gerald Tan Yau Ming (Surgical Disciplines)

### Institution

NUHS  
TTSH  
NUHS  
NUHS  
NUHS  
AH  
NUHS  
TTSH

## Best Poster Presentation Awards

### Recipient

Ms Kong Hui Hui (Allied Health)  
Dr Huang Qing (Basic Science)  
Dr Cheong Seng Kwing (Primary Care)  
Dr Ling Lee Fong (Medical Disciplines)  
Ms Wan Si Ling (Nursing)  
Mr Earnest Arul (Health Services Research / Quality)  
Dr Yeo Sze Wei (Surgical Disciplines)

### Institution

NUHS  
NUHS  
NUHS  
NUHS  
TTSH  
TTSH  
NUHS

The winning posters and other scientific posters showcased at the Congress can be viewed via our ASC website: [www.asc.nhg.com.sg](http://www.asc.nhg.com.sg). Click the "Abstract / Poster Submission" icon located at the top bar of the webpage to view.

