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## Part I Conference Schedule

### Monday Aug. 1, 2016

Time	Activity	Location
08:00-19:00	Registration	Lobby of HongLou Hotel, Hangzhou

Notes: Please take Name Tag for the venue and Tour Card for the tour.

### Tuesday Morning, Aug. 2

Time	Activity	Location: 5 <sup>th</sup> floor, Yongjin Hall
08:30-08:40	Opening Ceremony	
08:40-09:10	Keynote Speech 1: 2 Development of Integrated Index for Breast Cancer Identification with Thermal Imaging	
09:10-09:40	Keynote Speech 2: Transthyretin Is a Multi-Functional Protein, Unique or One of Many?	
09:40-10:10	Keynote Speech 3: Following my Gut Feelings: From Pathogens to Probiotics and Back	
10:10-10:40	Pose for a Group Photo and Coffee Break	
10:40-11:10	Invited Speech 1: Nano/Micro Material Processing Technologies for Fabrication of Micro Bio- and Medical Devices	
11:10-11:40	Invited Speech 2: What Radiological Science Can Help in the Medical Physics	

### Tuesday Noon, Aug. 2

12:00-13:00	Buffet Lunch	Location: 3 <sup>rd</sup> floor, Ah-Lou, Macy
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### Tuesday Afternoon, Aug. 2

Time	Speeches for Workshop on Academic Writing	Location: 5th floor, Yongjin Hall
14:30-15:00	Speech 1: Ethics in Publishing	
15:00-15:30	Speech 2: Strategies to Improve the Impact Of Your Papers and the Probability of Publishing in Top Level Journals	
15:30-15:45	Coffee Break	
15:45-17:00	Poster Session 1: Biomedical Engineering	
	Poster Session 2: Biomedical Imaging & Signal Processing	
	Poster Session 3: Biomaterial	

**Tuesday Evening, Aug. 2**

17:00-18:00	Dinner	Location: 2 <sup>nd</sup> floor, Rong Fuchu
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**Wednesday Morning, Aug. 3**

Time	Oral Presentation	Location: 5 <sup>th</sup> floor
08:30-12:00	Session 1: Biomedical Computing, Modeling and Analysis	Oriental Ballroom 5
	Session 2: Biomedical Imaging & Signal Processing (1)	Oriental Ballroom 6

**Wednesday Noon, Aug. 3**

12:00-13:00	Buffet Lunch	Location: 3 <sup>rd</sup> floor, Ah-Lou, Macy
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**Wednesday Afternoon, Aug. 3**

Time	Oral Presentation	Location
14:00-18:00	Session 3: biomedical Engineering	Oriental Ballroom 5
	Session 4: Biomedical Imaging & Signal Processing (2)	Oriental Ballroom 6

**Wednesday Evening, Aug. 3**

18:00-19:30	Awarding Dinner	Location: 2 <sup>nd</sup> floor, Rong Fuchu
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**Thursday, Aug. 4**

08:30-17:00	Gathering at the lobby hall at 08:15 a.m. and going for a tour in Hangzhou. P.S. Please show Tour Card when getting on the bus. It is the only access to the tour.
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# 大会日程（中文版）

2016年8月1日-4日

时间	日程安排	地点
08:00-19:00	注册报到	杭州红楼大酒店大厅

注：会议期间请随身携带参会胸牌，旅游需出示旅游券。

8月2日，星期二上午

时间	日程安排	地点: 5 楼转涌金厅
08:30-08:40	开幕式	
08:40-09:10	主题报告 1: 2 Development of Integrated Index for Breast Cancer Identification with Thermal Imaging 报告专家: Ng Yin Kwee 博士	
09:10-09:40	主题报告 2: Transthyretin Is a Multi-Functional Protein, Unique or One of Many? 报告专家: Joel N. Buxbaum 博士	
09:40-10:10	主题报告 3: Following my Gut Feelings: From Pathogens to Probiotics and Back 报告专家: Roy D. Sleator 博士	
10:10-10:40	与会代表集体合影及茶歇	
10:40-11:10	专题演讲 1: Nano/Micro Material Processing Technologies for Fabrication of Micro Bio- and Medical Devices 演讲专家: Ming Yang 博士	
11:10-11:40	专题演讲 2: What Radiological Science Can Help in the Medical Physics 演讲专家: Lung Kwang Pan 教授	

8月2日，星期二中午

12:00-13:00	自助午餐	地点: 3 楼阿露玛西餐厅
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8月2日，星期二下午

时间	日程安排	地点: 5 楼转涌金厅
14:30-15:00	主题报告 4: Ethics in Publishing 报告专家: Francisco A. Moura Duarte 博士	
15:00-15:30	主题报告 5: Strategies to Improve the Impact of Your Papers and the Probability of Publishing in Top Level Journals 报告专家: David De Jong 教授	
15:30-15:45	茶歇	
15:45-17:00	张贴报告 1: 生物医学工程	
	张贴报告 2: 生物医学影像	
	张贴报告 3: 生物材料	

**8月2日，星期二晚上**

17:00-18:00	晚餐	地点: 2 楼融府中餐厅
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**8月3日，星期三上午**

时间	日程安排	地点
08:30-12:00	口头报告 1: 生物学计算, 建模和分析	5 楼东方宴会厅 5 号厅
	口头报告 2: 生物学影像 (1)	5 楼东方宴会厅 6 号厅

**8月3日，星期三中午**

12:00-13:00	自助午餐	地点: 3 楼阿露玛西餐厅
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**8月3日，星期三下午**

时间	日程安排	地点
14:00-18:00	口头报告 3: 生物学工程	5 楼东方宴会厅 5 号厅
	口头报告 4: 生物学影像 (2)	5 楼东方宴会厅 6 号厅

**8月3日，星期三晚上**

18:00-19:30	颁奖晚宴	地点: 2 楼融府中餐厅
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**8月4日，星期四**

08:30-17:00	杭州一日游 (请于早上 08:15 在酒店大厅集合) P.S. 请务必带上您的旅游券, 凭券上车。	
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## Part II Keynote Speakers

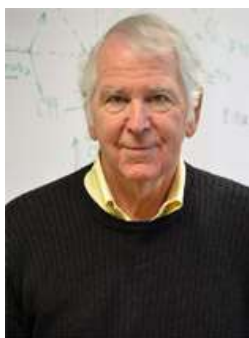


**Dr. Ng Yin Kwee**

Nanyang Technological University, Singapore

Dr. Ng Yin Kwee received his Ph.D. from Cambridge University, and is an associate professor at Nanyang Technological University. He serves as Editor-in Chief for two SCIE indexed Journals. His research interests are thermal imaging, biomedical engineering, and computational fluid dynamics / heat transfer. He has published more than 265 ISI journal articles and 80 conference papers and 13 books. He has supervised more than 30 Master and PhD students and amassed over SGD\$5M worth of research funding from various organizations in the capacity of the principal investigator.

See URL at <http://www.mae.ntu.edu.sg/aboutus/FacultyandStaff/Faculty/Pages/mykng.aspx>



**Dr. Joel N. Buxbaum**

The Scripps Research Institute, U.S.A

Dr. Buxbaum is Professor of Molecular and Experimental Medicine at The Scripps Research Institute in La Jolla, CA, USA. He has investigated disorders of protein conformation, chiefly the hereditary and sporadic amyloidoses caused by normal serum and CSF protein transthyretin. He has identified mutations in this systemic amyloid precursor and developed transgenic models for mutant and wild type forms of transthyretin. One such mutation in this protein may be responsible for as much as ten per cent of congestive heart failure in elderly African-Americans. He has now identified new functions for transthyretin and related these to resistance to amyloid deposits, particularly in the central nervous system, where it appears to behave as a multi-modal suppressor of the pathogenic processes involved in the development of Alzheimer's disease, a finding that may well be shared by other amyloid precursor pairs. This apparently common phenomenon raises the question whether other proteins, via heterotypic protein-protein interactions – may serve as “non-professional chaperones” while their mutant versions lead to pathologic aggregation via homotypic interactions.

Dr. Buxbaum, a graduate of Union College and the Tuft Medical School, completed five years of post-doctoral research with E.C. Franklin at NYU and Matthew Scharff at Albert Einstein College of Medicine. He rose to the rank of full professor at New York University School of Medicine where he remained until 1999 when he moved to the Scripps Research Institute. He has been elected to the American Society for Clinic Investigation and the Association of American Physicians. He has served on numerous review panels including the Advisory Council of the National Human Genome Research Institute and as the Chairperson of the Clinical and Investigative Research Council of the American Cancer Society. He was a Senior Scholar in Aging of the Ellison Foundation and was a recipient of a Dart/NYU Technology award in 2013.



### **Dr. Roy D. Sleator**

Royal Society of Biology, U.K

Dr Sleator graduated from University College Cork with a BSc (1H) in Microbiology, an MA (1H) in Education and a PhD in Molecular Biology, and holds a PGCert in Bioinformatics from The University of Manchester, UK.

Sleator is a Fellow of the Royal Society of Biology (FRSB). In 2006 he was awarded the SfAM WH Pierce Prize and was the recipient of the prestigious ESCMID Research Fellowship in 2004 (joint ESCMID-FEMS), 2010 and again in 2011. Sleator is a Senior Lecturer at the Department of Biological Sciences and a PI at Cork Institute of Technology's Centre for Research in Advanced Therapeutic Engineering (CREATE) and the Alimentary Pharmabiotic Centre (APC) at UCC. He is also founding Editor-in-Chief of the scientific journal Bioengineered, published by Taylor and Francis.

## **Invited Speakers**



### **Dr. Ming Yang**

Kyoto University, Japan

Dr. Yang is a Professor of Tokyo Metropolitan University, received his B.Eng., M.Eng. and Dr.Eng. in mechanical engineering from Kyoto University, JAPAN in 1984, 1986 and 1990, respectively. He used to work on intelligent control system for press-brake machine at Research and Development Laboratory of AMADA Co. From 1991, he moved to Tokyo Metropolitan University and worked on intelligent metal forming system from 1998 he became a staff member of the Laboratory of Precision Measurement and Instrumentation and worked on nano/micro materials and processing for micro bio- and medical applications. He is interested in micro processing and fabrication of MEMS for biological and chemical analysis, micro fluidics of bio-fluid. He is member of JMSE, JSTP, JSPE, JLME, ISIC



### **Prof. Lung Kwang Pan**

Central Taiwan University of Science and Technology, Taiwan

Dr. Pan is a Professor in the Department of medical imaging and radiological science, Central Taiwan University of Science and Technology, one of the only three institutes in Taiwan for training specialists and technologists in medical correlated fields. He got BSc from Chung Cheng Institute of Technology in Nuclear Engineering, MSc from National Tsing Hua University in Nuclear Science, PhD from Georgia Tech. in Radiological Science. His research has mainly focused on the radiological science, medical physics, optimization, and instrumentation.



## Speakers for Workshop on Academic Writing



### **Dr. Francisco A. Moura Duarte**

University of São Paulo, Brazil

BSc (1964): Federal University of Minas Gerais; PhD (1968): University of Brasilia. Professor at the University of São Paulo, Founding President (1983) of the Foundation for Scientific Research of Ribeirão Preto, and Founding member (1985) of the Brazilian Society of Science Editors. Editor-in- chief, Genetics and Molecular Biology, for 20 years (1978 to 1998). Founder and Editor-in- chief (2002) of the free access online journal Genetics and Molecular Research. President and Founder (2003), Ribeirão Preto Academy of Sciences. Expertise includes Genetics, Quantitative and Molecular Population Genetics, and Animal Genetics.



### **Prof. David De Jong**

University of São Paulo, Brazil

David De Jong Ph.D. (Cornell University) is a geneticist and entomologist. He has been a faculty member of the Ribeirão Preto School of Medicine in the University of São Paulo since 1988, where he teaches genetics, evolution and scientific writing in the Genetics Department. He has also given scientific writing courses in various universities, throughout Brazil. Dr. De Jong's principal areas of research are honey bee pathology, behavior, nutrition and genetics. He is an international consultant in apiculture, having participated in projects for FAO (Food and Agriculture Organization of the United Nations), IDB (Interamerican Development Bank) and various other organizations in the majority of the countries in Central and South America, as well as South Korea, and has given talks and courses as an invited speaker in more than 20 countries. Dr. De Jong was associate editor of the Brazilian Journal of Genetics (renamed Genetics and Molecular Biology) from 1988 to 2001 and associate editor of Genetics and Molecular Research from 2002 to 2015. He is the author of over 100 refereed papers and has also authored several books and book chapters. He is known and consulted as a specialist on (honey bee colony collapse disorder (CCD), Africanized honey bees, and honey bee pathology, especially because his research on the parasitic mite, *Varroa destructor*, the principal agent causing bee mortality worldwide.

## Part III Keynote Speeches

### **Development of Integrated Index for Breast Cancer Identification with Thermal Imaging**

**Speaker:** Dr. Ng Yin Kwee

Nanyang Technological University, Singapore

**Time:** 08:40-09:10, Tuesday Morning, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

**Abstract:**

Breast cancer is one of the prime causes of death in women worldwide. Thermography has shown a great potential in screening the breast cancer and overcomes the limitations of mammography. Moreover, interpretations of thermogram images are dependent on the specialists, which may lead to errors and uneven results. Preliminary screening method should detect the hazardous, destructive tumors effectively to improve the accuracy. The growth of malignant tumor can increase the internal temperature which can be captured by thermograms. Thus in this work, locally normalized Histogram of Oriented Gradients (HOG) based preliminary screening Computer Aided Diagnosis (CAD) tool is proposed. HOG is able to record the minute internal variations in thermograms. In order to reduce the dimensions of extracted HOG descriptors Kernel Locality Preserving Projection (KLPP) is used. The resulting KLPP features are then ranked to form an efficient classification model. Various machine learning algorithms are used to validate the proposed method. Our method shows a promising performance with an average accuracy, sensitivity, and specificity of 98 %, 96.66 % and 100 % respectively. We have also developed a Breast Cancer Risk Index (BCRI) using significant KLPP features which can discriminate the two classes using a single integrated index. This can help the radiologists to discriminate the normal and malignant classes during screening to validate their findings.

### **Transthyretin Is a Multi-functional Protein, Unique or One of Many?**

**Speaker:** Dr. Joel N. Buxbaum

The Scripps Research Institute, U.S.A

**Time:** 09:10-09:40, Tuesday Morning, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

**Abstract:**

Transthyretin (TTR) is a structurally well characterized homo-tetrameric protein. It was named on the basis of its apparently sole function as a carrier of the thyroid precursor hormone thyroxine (T4) and retinol binding protein charged with retinol, both being essential for the normal development of the nervous system. For the last three decades it has been extensively studied as the fibril precursor in both hereditary and sporadic instances of tissue compromising amyloidosis. More recently it has been identified as an important molecule in the adult nervous system, being required for peripheral nerve regeneration and as an apparent stress responsive molecule in the CNS, particularly in the context of neurodegenerative diseases. Our work has explored the structural basis of its neuronal function in both human and mouse brain. We will discuss its potential role in human Alzheimer's disease and its apparently paradoxical function as an inhibitor of amyloidogenesis by other fibril precursors. We will also discuss the notion that TTR is a representative of a class of multifunctional proteins with similar properties and if manipulation of such molecules might represent opportunities for prophylaxis or therapy of neurodegenerative diseases.

**Following my Gut Feelings: From Pathogens to Probiotics and Back**

**Speaker:** Roy Sleator

Royal Society of Biology, U.K

**Time:** 09:40-10:10, Tuesday Morning, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

**Abstract:**

Sleator's talk centres on the human gastrointestinal tract; focusing on the bacterial stress responses needed to overcome the physiochemical defences of the host, specifically how these stress survival strategies can be used as targets for alternative infection control strategies. Recent developments in molecular diagnostics; centring on the shifting paradigm from culture to molecular based diagnostics, will also be discussed in the context of identifying new gastrointestinal pathogens.

## **Invited Speeches**

### **Nano/Micro Material Processing Technologies for Fabrication of Micro bio- and Medical Devices**

**Speaker:** Dr. Ming Yang

Kyoto University, Japan

**Time:** 10:40-11:10, Tuesday Morning, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

**Abstract:**

In the presentation, the author will introduce works on several nano/micro material processing technologies, such as micro forming of thin metallic foils, synthesis of Vertical aligned Carbon nanotubes (VACNTs), Transfer-printing of VACNTs for fabrication of micro parts or devices for bioanalysis and medical applications. As examples, a micro metallic pump with dimensions of 7mm square and 1mm thickness was developed. A process consists of micro-molding of polymer and self-organization of nanostructured VACNTs on surface of the polymer was developed for a rapid and high sensitive micro immunoassay.

### **What Radiological Science Can Help in the Medical Physics**

**Speaker:** Prof. Lung Kwang Pan

Central Taiwan University of Science and Technology, Taiwan

**Time:** 11:10-11:40, Tuesday Morning, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

**Abstract:**

The radiological science is an integrated science that concerns the radiological sources, the aimed target, the penetrated path and the cross interactions among materials altogether. The talk splits into 4 major sections as radioactive dose evaluation, biokinetic model of human body, medical facilities optimization, and nano-dosimetry according to the revised target model. Each section provides easy theoretical definition and the correlated experimental setup to illustrate the various

applications of radiological science in medical physics fields. The dose evaluation is accomplished according to either external or internal radioactive sources that imply most patients undergone routine examination in hospital. The biokinetic model is evaluated by a dynamic water phantom with self-developed MATLAB program to well interpret the human metabolic mechanism for patients undergone nuclear examination. The Taguchi optimization technique has its unique definition in assigning factor and level of the specific medical facility (CT, MRI, X-ray, Gamma camera...). The rapid and convincible analysis helps greatly in fastening the weekly quality assurance of facility for medical staff. Whereas, the revised target model proposed herein is defined according to the Poisson distribution of low probability of success and verified from survival rate of the elongation of mung bean sprout that were exposed by 6MV X-ray.

## **Speeches for Workshop on Academic Writing**

### **Ethics in Publishing**

**Speaker:** Dr. Francisco A. Moura Duarte

University of São Paulo, Brazil

**Time:** 14:30-15:00, Tuesday Afternoon, Aug. 2

**Location:** 5th floor, Yongjin Hall

#### **Abstract:**

All authors are responsible for the veracity and quality of a manuscript and must have read and approved the version submitted to the journal for publication and the final revision that is approved for publication. Though journal referees and editors make every effort to make sure that only quality research is published, the final responsibility is that of the authors. The corresponding author may speak for the other authors; however, he must have their consent and must also send them copies of the various versions and of any correspondence with the editorial board of the journal. Author responsibilities include avoidance of plagiarism, both in the data that is included in the publication and the figures, sentences and paragraphs that are included in the manuscript. Unfortunately, internet has made it relatively simple to cut and paste phrases and even whole pages from previously published works. Fortunately, there are programs that help journals find such plagiaries. The most important aspect of a researcher's career is his or her reputation. Risking this reputation by publishing bad research or by plagiarism is both a disservice to advancement in science and an extremely damaging career move. Even the most highly ranked journals are not completely immune to publishing bad research. When plagiaries or false or bad research is suspected after a paper is published, the correct procedure is to inform the authors, ask for an explanation, and then proceed with an investigative process in order to decide on the correct course of action. If it is proven that the paper involves bad research or plagiarism, it should be retracted and the journal must

publish a retraction notice. The journal also contacts the institutions that the authors work at and requires that they take and inform about appropriate measures in relation to the findings of publishing misconduct. Referees also have ethics responsibilities in the publishing process. They must make a strong effort to be correct and impartial in their judgement of the manuscript, pointing out inadequacies and suggesting improvements in case they decide that the paper has information that is worth publishing. They must not use their privileged position as reviewers to take advantage of the information that they receive, for instance by rejecting the paper and then proceeding with a substantially similar approach in another research project or paper. Reviewers also must not show the manuscript to colleagues without first informing the editor and they must never circulate the paper or parts of it before it is published. If it is not published, they must not use the information to their own benefit. The current pressure on academic and research personnel to publish can be a good thing to promote the advancement of science; however, the progress that is made depends heavily on ethics in publishing.

## **Strategies to Improve the Impact of Your Papers and the Probability of Publishing in Top Level Journals**

**Speaker:** Prof. David De Jong

University of São Paulo, Brazil

**Time:** 15:00-15:30, Tuesday Afternoon, Aug. 2

**Location:** 5<sup>th</sup> floor, Yongjin Hall

### **Abstract:**

The impact of your paper depends on many factors, including the journal that you publish it in, your “name”, the relevance of your work within and outside your area of expertise, the institution that you work at, the fame of your co-authors, the paper title, how you word your abstract, the language you publish in, the wording and clarity of the writing, and the current interest in the topic you have chosen. Improving the chance of publishing in top level journals and the impact of your paper in terms of recognition by the lay and scientific communities can be accomplished by careful planning of the research and the manuscript. Good research can be rejected by top journals even if it is very relevant and well done, if the authors are not careful in how they prepare their submission. An important detail is the title. A title can make or break a paper. That is what potential readers will first see when they search for research of interest. The title also will impress (or not) editors and referees. If your title is not well prepared, readers will not immediately recognize your work as important and interesting. Think about what you choose to read when you make a literature search. Many titles appear and you cannot read all of them. How do you decide based on a list of titles which papers you will examine? After the title, comes an abstract. If the abstract is clear, well written and interesting, the reader is captured. Remember also that editors and referees normally

decide very quickly whether a submission is worth a thorough and favorable review. If they like what they read in the first minutes, then they will look for information to support an initial favorable impression. If they do not, they will make a quick decision that the paper is not worth publishing and will only read on to find details that support a decision they have already made. There are many other details involved in preparing good papers, but the title and the abstract certainly stand out as critical and essential. Another important and often overlooked detail is who you cite. Authors who have published on a similar subject in the same journal are often selected as referees and will probably be favorably impressed by citations to their works. Of course the main criterion for top journals is papers that have something important to reveal. However, authors need to learn how to make this clear in their submissions. Be aware that rejections are part of the process and the feedback from editors and referees should be respected and taken advantage of in order to improve the paper for submission to other journals. This process of feedback and revisions can be laborious, but it helps authors to learn how to write better papers.

## Part IV Poster Session

### Poster Presentation

#### Materials Provided by the Conference Organizer:

- X Racks & Base Fabric Canvases (60cm×160cm, see the figure below)
- Adhesive Tapes or Clamps

#### Materials Provided by the Presenters:

- Home-made Posters

#### Requirement for the Posters:

- Material: not limited, can be posted on the Canvases
- Size: smaller than 60cm×160cm
- Content: for demonstration of the presenter's paper

#### Requirement for the Presenters:

- Stand beside his/her Poster through the Session, and discuss with the readers about his/her paper

**Time:** Aug. 2, 15:45-17:00

**Location:** 5<sup>th</sup> floor, Yongjin Hall



## Poster Session\_1 Biomedical Engineering

Paper ID	Paper Title	Author
BEB2960	Design and Control of A Pneumatic Musculoskeletal Biped Robot	Yixiang Liu
BEB3041	Assessment of Coronary Stent Deployment in Tapered Arteries: Impact of Arterial Tapering	Shen Xiang
BEB3042	Activities of the Sinus Node Pacemaking During the Simulated Atrial Reentry	Hong Zhang
BEB3096	Synthesis, SAR and Biological Evaluation of a novel series of 1-(2-chloroethyl)-1-nitroso-3-(2-(3-oxobenzoelenazol-2(3H)-yl)ethyl)urea: Organoselenium compounds for cancer therapy	Suofu Ye
BEB3135	Serum Pharmacological Effects of Salvia Miltiorrhiza on an Hsc-T6 Cell Line Evaluated by Biosensor	Lingzhu Fu
BEB3159	Inhibition of Apoptosis Is Responsible for the Acquired Cisplatin-Resistance In K562 Cells	Min Fan
BEB3195	Mastication Noise Reduction Method for Fully Implantable Hearing Aid Using Piezoelectric Sensor	Sungdae Na
BEB3206	The Correlation Between Protein 4.1R and The Progression of Heart Failure in Vivo	Chenkai Zhu
BEB3218	A New Parameter Estimation Method for Online Soft Tissue Characterization	Jaehyun Shin
BEB3228	Synthesis and Biological Evaluation of 7-Hydroxycoumarin Derivatives as Novel CK2 Inhibitors for Anticancer Therapy	Wenjuan Chen
BEB3265	Cytotoxicity of Agnps/CS Composite Films: Agnps Immobilized in Chitosan Matrix Contributes A Higher Inhibition Rate to Cell Proliferation	Xianghui Wang
BEB3290	Difference of Auditory Brainstem Responses by Stimulating to Round and Oval Window in Animal Experiments	Jyung Hyun Lee
BEB3293	Force-Torque Intraoperative Measurements for Femoral Shaft Fracture Reduction	Qing Zhu
BEB3304	Building the SeqChromMM Markov Property Atlas of the Human Genome by Analyzing the 200-Bp Units Of the 15 Different Chromatin Regions of ENCODE	Hyun Seok Park
BEB3307	Nanofibers Promote Hepg2 Aggregate Formation and Cellular Function	Wen Ta Su
BEB3333	The Construction of A COX-2 Short Hairpin RNA Expression Vector And Its Inhibitory Effect on Hepatic Fibrosis	Xuefeng Yang
BEB3390	Implementation of Integrated Circuit and Design of SAR ADC for Fully Implantable Hearing Aid	Jonghoon Kim
BEB3394	KCNQ1 A340E Impairs Electrolyte Homeostasis Independently of the Renin-Angiotensin-Aldosterone System in Mice	Qin Pan
BEB3433	Biomechanical Analysis of the Application of Zygoma Implants for Prosthesis in Unilateral Maxillary Defect	Aili Qu



BEB3444	Fabrication and Characterization of Disposable Wireless Electronic Endoscope	Ho Chang
BEB3529	The Development of Pathogen Targeted Gold Nanorods and the Evaluation of Their Efficacy in A Periodontal Disease Model	Jehn Shyun Huang
BEB3590	A Comparative Study on the Mechanical Behavior of Intervertebral Disc Using Hyperelastic Finite Element Model	Lixin Huang
BEB3595	Using Markov Chains of Nucleotide Sequences as A Possible Precursor to Predict Functional Roles of the Human Genome: A Case Study on Inactive Chromatin Regions	Kyung Eun Lee
BEB3597	Research Development of nm23 Gene in Colorectal Cancer Prognosis Monitoring	Zhenjiang Hou
BEB3665	Denervation Intact Smooth Muscle Preload Stress Relaxation and Membrane Current Changes in Denervation Intact Smooth Muscle Tissue	Yang Wang
BEB3720	Using Formant Comparison to Design a Korean Pronunciation Self-Study System for Chinese Learner	Qun Wei
BEB3761	Evaluation of the Mechanical Properties of Polylactic Acid (PLA) Scaffolds for Bone Tissue Engineering as A Function of the Process Parameters in Fused Filament Fabrication (FFF)	Marco Velasco
BEB3765	Neuron Culture Platform for Axon Regeneration Drug Screening	Jaewon Park
BEB3817	Designing an Eye Tracking System and Controlling the Mouse Cursor by Eye	Anahita Rahmati Najarkolai
BEB3979	LaserBreath-001 Ringdown Breath Acetone Analyzer and Its Clinical Applications	Meixiu Sun
BEB4029	Effects of Tumor Necrosis Factor-A on MAPD Between the Endocardium and Epicardium in Isolated Heart Tissues and the Study for Mechanism	Qing Zhang

## Poster Session\_2 Biomedical Imaging & Signal Processing

Paper ID	Paper Title	Author
BEB3041	Assessment of Coronary Stent Deployment in Tapered Arteries: Impact of Arterial Tapering	Xiang Shen
BEB3097	Fast GPU-based High-quality Three-dimensional Volume Rendering	Chaolu Feng
BEB3152	Preliminary Research on Brain Tumor Detection in MRI Scanning by Wavelet Entropy and Kernel Support Vector Machine	Shuihua Wang
BEB3153	Study on geometric efficiency for MDCT	Jingwen Zhuang
BBE3197	Wavelet Speech Enhancement Algorithm Using Exponential Semi-soft Mask Filtering	Gihyoun Lee

BEB3199	Novel Method Using Multiple Strategies for Accurate Lung Segmentation in CT Images	Zhenghao Shi
BEB3202	ROI Segmentation by Localizing Region-based Active contours	Jiejue Ma
BEB3284	The Optimization of the SPECT Image Quality via Taguchi Analysis: A Feasibility Study of A V-Shaped Phantom	Cheng Hsun Lin
BEB3376	Segmentation of Coronary Artery Using Region Based Level Set with Edge Preservation	Chaolu Feng
BEB3508	Feature Asymmetry Anisotropic Diffusion for Speckle Reduction	Qiong Wang
BEB3519	Increased Diagnostic Accuracy of Post-Contrast MR 3D-STIR For Brachial Plexus Injury	Wenchang Chen
BEB3543	A Way to Create a Colored Functional Medical Image by Hardware	Junghua Ho
BEB3546	Realistic Rendering of 3D Fetal Ultrasound via Local Ambient Occlusion	Tianjin Zhang
BEB3571	Three Dimensional Ultrasound Image Analysis for Renal Calculi Fragmentation Monitoring During ESWL	Ioannis Manousakas
BEB3677	Development of a Smart Bio-Signals Monitoring Health Band System for Improving Infants' sleep	HeeJoon Park
BEB3680	Smoothing Nonnegative Matrix Factorizations and Its Application to Extraction of Time Activity Curve in Dynamic Brain PET	Yueyang Teng
BEB3776	Improving Cerebral Neural Tract Identification via Fiber Clustering with a Reliable Fiber Similarity Metric	Xufeng Yao
BEB3807	Vessel-Based 3D Liver Segment	Mingqiang Wei
BEB3893	A Three-dimensional Denoising Method for Low-dose CT	Xiaobao Shang
BEB3938	The Advantages of Ultrasound in the Treatment of Abdominal Malignant Tumors by 125-Iodine Seed Implantation	Qingchun Li
BEB4013	Posture Recognition Using Multi-Class Classification for Tai-Chi Training	Tzu Huai Wu

### Poster Session\_3 Biomaterial

Paper ID	Paper Title	Author
BEB3344	Local deformation for soft tissue simulation	Nadzeri Omar
BEB3718	An Analysis of the Therapy of Virtual Reality Rehabilitation Training System to Patients with Cognitive Impairments Caused by Craniocerebral Injury	Jiachun Lu
BEB3757	Immunological Impression Cytology of The Conjunctival Epithelium in Patients with Thyroid Orbitopathy-Related Dry Eye	Chia Hui Chen
BEB3799	Evaluation of Metabolic Functions of Liver Cells Co-Cultured With Hepatic Stellate Cells in Microcapsules	Xiaoping Pan
BEB3820	The Anti-Aging Effects of Neo-Endorphin on Skin Photoaging in Cultured Human Dermal Fibroblast Cells	Ga Eun Lim
BEB3821	Isolation And Characterization of A Thermostable Thrombin-Like Serine Protease from A Snake Venom	Yeong Hee Cho

BEB3822	Isolation and Characterization of A Fibrino(Geno)Lytic Protease From Thelepus Japonicas	Cheol Ahn
BEB3823	Roles of A Vibrio Extracellular Protease in Blood Homeostasis And Inflammatory Response	Jung Sup Lee
BEB3825	Functional and Molecular Characterization of A Metalloprotease from Vibrio Furnissii	Do Sung Lim
BEB3827	Metagenomic Datasets Binning Using Cluster Size Insensitive Fuzzy C-Means Method	Yun Liu
BEB3836	Cell Toxicity Study of Electrospun Nylon-6 Nanofibers Doped with Mgo	Song Lin
BEB3845	Purification, Characterization, and Comparison Of Thermostability of Vibrio Extracellular Proteases	Jung Eun Park
BEB3878	Highly Enhanced Compatibility of Human Brain Vascular Pericyte Cells on Monolayer Graphene	Kim Jangheon
BEB3941	Investigation of Quality of Life on Troops in A High Humidity Environment	Wenchun Wang
BEB3974	Modeling of The Human Cornea For Ray Tracing Simulations	Simon Schröder
BEB4019	Development of Dengue Vaccine by Using PLGA Microparticle Adsorbed with Dengue Subunit Protein	Chien Hsiung Pan
CBB1624	A Study on Detection of Glucose Concentration Using Changes In Color Coordinates	Ji Sun Kim

NOTE: If you want to make a poster presentation but your paper ID is not included in the list, please contact the organizing committee to arrange it.

## Part V Oral Session

### Oral Presentation

#### Devices Provided by the Conference Organizer:

- Laptops (with MS-Office & Adobe Reader)
- Projectors & Screen
- Laser Sticks

#### Materials Provided by the Oral Presenters:

- PowerPoint( **Note: Please show your paper ID as CBB\*\*\*\* /BEB\*\*\*\* in the last page** )

#### Duration of each Presentation (Tentatively):

- Regular Oral Session: 10 Minutes of Presentation, 3-5 Minutes of Q&A

#### Awarding for the Oral Presentation

- We will hold a voting for the Oral Presentation, participants will get a vote to elect the best 1-3 oral presentations in each session. Top elected presenters will each be awarded with a free ticket to the next conference ICBE2017.

**Time:** Aug. 3, 08:30-12:00, 14:00-18:00

**Location:** 5<sup>th</sup> floor

### Oral Session\_1 Biomedical Computing, Modeling and Analysis

Session Chair: Wendong Wang

Time: 08:30-12:00

Location: 5<sup>th</sup> floor, Oriental Ballroom 5

Time	Paper ID	Paper Title	Author
08:30-08:45	CBB2315	In Vitro Expansion and Differentiation of Rat Pancreatic Duct-Derived Stem Cells into Insulin Secreting Cells Using A Dynamic Three-Dimensional Cell Culture System	Hao Liu
08:45-09:00	BEB3018	Development of A New Characteristic Parameter – Waveform Index of Finger Blood Volume Pulse	Wenjie Wu
09:00-09:15	BEB3087	Basic Pharmacology Modeling and Computing Analysis of An Immune System against Ebola Virus	Tao Gong
09:15-09:30	BEB3185	Uncertainties of Impact Configuration for Numerical Replications of Real World Trauma: A FE Analysis	Michèle Bodo
09:30-09:45	BEB3259	The Tortuosity of Trabecular Bone Is Not Sensitive in the Attenuation of Wave Propagation	Young June Yoon

09:45-10:00	BEB3278	Preparation and Properties of Calcium Citrate Nanosheets for Bone Graft Substitute	Mingxu Li
10:00-10:15	BEB3341	Evaluating Environment Radiations at Axesse Linac Undergoing NPC Treatment of VMAT	Chien Yi Chen
10:15-10:30	Coffee Break		
10:30-10:45	BEB3544	Development of A Wear Model for Lubricated Metal-On-Metal Hip Joints	Leiming Gao
10:45-11:00	BEB3576	Development and Evaluation of Film-Stack Reaction Field with Micro-Pillars Array for Bio-Analysis Application	Yuma Suzuki
11:00-11:15	BEB3589	Fabrication of Micro Pillar Structures By Transferring Cnts For Bio Analysis	Jungo Onoda
11:15-11:30	BEB3702	The Collagen Microstructural Changes of Rat Menisci and Tibiofemoral Cartilages Under the Influence of Mechanical Loading: An in Vitro Wear Test of Whole Joints	Lingying Tong
11:30-11:45	BEB3854	Evaluation of Actuation Compatibility and Homogeneities for MRI-Powered Ferromagnetic Sphere	Peng Zhang
11:45-12:00	BEB3871	Computational Fluid Dynamic Investigations of the Effects of Incomplete Stent Apposition in Idealised Curved Coronary Arteries	Winson Chen

## Oral Session\_2 Biomedical Imaging & Signal Processing (1)

Session Chair: Yudong Zhang

Time: 08:30-12:00

Location: 5<sup>th</sup> floor, Oriental Ballroom 6

Time	Paper ID	Paper Title	Author
08:30-08:45	BEB3003	A Pathological Brain Detection System Based on Radial Basis Function Neural Network	Siyuan Lu
08:45-09:00	BEB3172	Characterization of Human Cortical Bone, Trabecular Bone, and Tooth by Low-Field Nuclear Magnetic Resonance (NMR)	Qingwen Ni
09:00-09:15	BEB3186	Optimizing Quality of Digital Mammographic Imaging Using Taguchi Analysis with an ACR Accreditation Phantom	Lung Fa Pan
09:15-09:30	BEB3200	Ultrasound Harmonic Enhanced Imaging Based on the Eigen Decomposition	Wei Guo
09:30-09:45	BEB3201	Topological Framework Based Retinal Vessel Geometric Features Extraction and Selection with Least Absolute Shrinkage and Selection Operator	Huiqun Wu
09:45-10:00	BEB3217	Plane Wave Ultrasound Imaging Under Low SNR Circumstances with DMAS and Chirp-Coded Excitation	Shun Zhang
10:00-10:15	BEB3289	Diabetic Retinopathy Retinal Image Enhancement Based on Gamma Correction	Xinpeng Zhang

10:15-10:30	Coffee Break		
10:30-10:45	BEB3322	Uterine Artery Embolization Increases Delivery Safety in Parturient Women with Placenta Accreta	Hsienwen Chiang
10:45-11:00	BEB3331	A Novel Cascading Red Blood Cell Segmentation Method	Guohe Zhang
11:00-11:15	BEB3332	Medical Image Fusion in Gradient Domain with Structure Tensor	Zhenyi Jin
11:15-11:30	BEB3357	Numerical and Monte Carlo Simulation on X-ray Fluorescence Computed Tomography with Self-Absorption Correction	Peng Feng
11:30-11:45	BEB3365	Association between Glioblastoma Locations and Patient Age	Yurong Huang
11:45-12:00	BEB3739	Fluorescence Imaging in Deep Tissue with High Resolution	Baohong Yuan

### Oral Session\_3 Biomedical Engineering

Session Chair: Christian Pylatiuk

Time: 14:00-18:00

Location: 5<sup>th</sup> floor, Oriental Ballroom 5

Time	Paper ID	Paper Title	Author
14:00-14:15	BEB2989	Research of the Assessable Method of Postpartum Hemorrhage	Zhenyu Chi
14:15-14:30	BEB3007	Influence of Gestational Age and Time of Day in Baseline and Heart Rate Variation of Fetuses;	Guangfei Li
14:30-14:45	BEB3138	Automatic guidance of laparoscope based on the region of interest for robot assisted laparoscopic surgery	Lingtao Yu
14:45-15:00	BEB3162	A Repetitive Sequence Assembler Based on Next Generation Sequencing	Shuaibin Lian
15:00-15:15	BEB3187	Prediction of Mild Cognitive Impairment to Alzheimer's Conversion Based on Hybridization of BBO and PSO;	Yudong Zhang
15:15-15:30	BEB3205	Kinetic Analysis of IgM Monoclonal Antibodies for Determination of Dengue Sample Concentration Using SPR Technique	Peyman Jahanshahi
15:30-15:45	Coffee Break		
15:45-16:00	BEB3250	A New Chainmail Approach for Real-Time Soft Tissue Simulation	Jinao Zhang
16:00-16:15	BEB3281	Automated Phenotype Pattern Recognition of Zebrafish for High-throughput Screening	Christian Pylatiuk
16:15-16:30	BEB3350	A Hessian Plate Filter and Shape Features based Approach to Automatically localizing the NT VOI of 3D Ultrasound Data	Siqing Nie

16:30-16:45	BEB3426	Validity of CAVI Measurements for Diagnosing Hypertension in Middle-aged and Elderly Patients and Correlations of these Measurements with Relevant Factors	Xiaorui Song
16:45-17:00	BEB3430	Effects of Varroa Destructor on Temperature and Humidity Conditions and Expression of Energy Metabolism Genes in Infested Honeybee Colonies	Qingyun Diao
17:00-17:15	BEB3514	Thrombolysis Based on Magnetically-Controlled Surface-Functionalized Fe <sub>3</sub> O <sub>4</sub> Nanoparticle	Qian Li
17:15-17:30	BEB3849	Non-Fourier based thermal mechanical tissue damage prediction for thermal ablation	Xin Li
17:30-17:45	BEB4010	Screening and Evaluation of Plasma Protein Binding Effects to Antioxidants in Herbal Ephedrae by Capillary Electrophoresis with Chemiluminescence Detection	Yuan Pang
17:45-18:00	BEB4026	Biomaterial for Rehabilitation	Ping Chung Leung

## Oral Session\_4 Biomedical Imaging & Signal Processing (2)

Session Chair: Baohong Yuan

Time: 14:00-18:00

Location: 5<sup>th</sup> floor, Oriental Ballroom 6

Time	Paper ID	Paper Title	Author
14:00-14:15	BEB3388	Optimal Pressure Measurement of Lymphedema with Ultrasonography in Postoperative Breast Cancer Patients	Kwan Sik Seo
14:15-14:30	BEB3397	Effects of an Anger Management Virtual Reality Cognitive Behavioral Therapy Program on EEG Patterns among Destructive and Impulse-Control Disorder Patients	Chang Hyun Ryu
14:30-14:45	BEB3482	Fast Primal-Dual TV-Based Reconstruction and Practical Image-Domain Decomposition for Few-View Dual-Energy CT	Lei Li
14:45-15:00	BEB3632	Dose Correction in Medical X-Ray Imaging in Low Dose Regime	Xiaoming Zheng
15:00-15:15	BEB3693	Medical Image Fusion Based on Non-Subsampled Shearlet Transform and Spiking Cortical Model	Zhiwen Huang
15:15-15:30	BEB3714	Small World Evolution Modelling of Brain Memory Functional Network	Lanhua Zhang
15:30-15:45	Coffee Break		
15:45-16:00	BEB3751	Computer-Aided Detection of Microcalcifications Using Image Enhancement and Support Vector Classification	Yang Zhao
16:00-16:15	BEB3764	Phantom Verification for Prone Three-Dimensional Diffuse Optical Imaging System	Min Chun Pan

16:15-16:30	BEB3889	Auto-optimized Paralleled Sinogram Noise Reduction Method Based on Relative Quality Assessment for Low-Dose X-Ray CT	Yifan Zhu
16:30-16:45	BEB3902	Gradient Controlled Adaptive Non-Local Means Method for Speckle Reduction in Ultrasound Images	Zaixian Yuan
16:45-17:00	BEB3994	Image Quality Assessment and Enhancement of A Thermal Imager for Photothermal Therapy Monitoring	Mingwu Jin
17:00-17:15	BEB4004	Low-Intensity, High-Frequency Mechanical Vibration Enhances Expression of Osteogenic Signal Related Proteins in Ovariectomized Rats	Ming Li
17:15-17:30	BEB4016	A Landmark-Based Approach for Mid-Sagittal Plane Detection in 3D Brain MR Images	Ke Gan

NOTE: If you want to make an oral presentation but your paper ID is not included in the list, please contact the organizing committee or the session chair to arrange it.



## Part VI Hotel Information

### 1. Hotel Information

HongLou Hotel, Hangzhou is ideally located in the central area of West Lake, to be specific, the downtown of Hangzhou bustling business district. The Hotel offers 330 well designed rooms. It perfectly combines the oriental elements and international fashion.

Comprehensive business centers, meeting and recreational facilities as well as fine dining options cater to businessmen and leisure travelers.

Website: <http://www.hzhonglouhotel.com/en/index.asp>

Address: No.2 Xihu Road, Hangzhou, China

Tel: 0571-87839999; Fax: 0571-87272516

E-mail: hzhonglouhotel@hotmail.com

### How to get to the hotel

**From Hangzhou Railway Station** (Colloquially “City Station”, in Chinese: 城站)

Directly walk to the hotel.

Distance: about 300m

**From Hangzhou East Railway Station** (Colloquially “East Station”, in Chinese: 东站)

**Route 1)** Take subway line 1 (Xianghu Direction, in Chinese: 湘湖方向) from the stop-Hangzhou East Railway Station (东站) to the stop-Hangzhou Railway Station (城站) and get out from Exit A3.

Then walk to the hotel.

**Route 2)** Take a taxi

Distance: 7.5km. Taxi fare: about RMB20.

**From Hangzhou Xiaoshan International Airport** (in Chinese: 杭州萧山国际机场)

**Route 1)** Take a shuttle bus

Walk to the waiting room of Airport Express Shuttle Buses which is located at the Gate-14 of arrival hall, buy a ticket at the counter there, take a shuttle bus to Hangzhou Railway Station (城站) and get out from Exit A3. Then walk to the hotel. Shuttle fare: about RMB35.

Shuttle departure time at the airport: every 15 minutes from 08:00 to 22:00, then, every 30

minutes from 22:00 to 01:20. URL: <http://www.hzairport.com/bus.aspx>.

### **Route 2) Take a taxi**

Distance: about 31km. Taxi fare: about RMB 80.

### **From Shanghai Hongqiao International Airport** (in Chinese: 上海虹桥国际机场)

#### **Route 1):**

→ Take Metro Line 10 (Hongqiao Railway Station Direction) from the stop-Hongqiao Airport Terminal 1 (虹桥 1 号航站楼站) to the Stop-Shanghai Hongqiao Railway Station (虹桥火车站) and get out from Exit E

→ walk to the Shanghai Hongqiao Railway Station (上海虹桥火车站)

→ take a high speed train to Hangzhou Railway Station (杭州站)

P.S. High Speed Train fare: RMB233.5 (business class seat), RMB123.5 (first-class seat), RMB77.5 (second-class seat), RMB77.5 (standing-room-only ticket).

→ get off at Hangzhou Railway Station

→ walk to the hotel.

#### **Route 2):**

→ Take a taxi to the Shanghai Hongqiao Railway Station

→ take a high speed train to Hangzhou Railway Station

→ get off at Hangzhou Railway Station

→ walk to the hotel.

### **From Shanghai Pudong International Airport** (in Chinese: 上海浦东国际机场)

#### **Route 1):**

→ Take the Maglev Train from Pudong International Airport Stop (浦东国际机场站) to the Stop-LONGYANGLU (龙阳路站)

Maglev Train fare: about RMB50

→ change for Metro Line 2 (XUJINGDONG Direction) to the Stop-Shanghai Hongqiao Railway Station (虹桥火车站) and get out from Exit E

→ walk to the Shanghai Hongqiao Railway Station

→ take a high speed train to Hangzhou Railway Station

→ get off at Hangzhou Railway Station

→ walk to the hotel.

#### **Route 2):**

→ Take Metro Line 2 East Extension (GUANGLANLU Direction) from Pudong International Airport Stop (浦东国际机场站) to the Stop-GUANGLANLU (广兰路站)  
→ change for Metro Line 2 (XUJINGDONG Direction) to the Stop-Shanghai Hongqiao Railway Station (虹桥火车站) and get out from Exit E  
→ walk to the Shanghai Hongqiao Railway Station  
→ take a high speed train to Hangzhou Railway Station  
→ get off at Hangzhou Railway Station  
→ walk to the hotel.

### **Route 3)**

→ Take a long distance bus from Shanghai Pudong International Airport Coach Station (浦东机场长途客运站) to Hangzhou (around 3 hours). Bus fare: RMB100.

P.S. (a) The bus station is located between the two terminals of the Pudong Airport. (b) Destination in Hangzhou can be Wulin Square or Huanglong Tourists Center (destination changes from time to time).

→ then take a taxi to the Honglou Hotel.

If you arrive in Beijing or other major cities in China, you may take a flight to Hangzhou, then refer to 3.

P.S. For foreign attendees, please show the following information to the driver if you take a taxi:

请送我到：中国杭州市上城区西湖大道 2 号杭州红楼大酒店

(Please send me to HongLou Hotel. The address is No.2 Xihu Road, Hangzhou)