

Wednesday, 2 December 2009

Session: D1-1A - Biomedical Signal Processing, Imaging and Visualization**Date: Wednesday, 2 December 2009****Time: 11:00 - 13:00 hrs****Venue: Breakthrough****Chair: Li Xiao Li****11:00 - 11:30 hrs D1-1A-1 ICBPEA00026-00048**

Pervasive Real-Time Biomedical Monitoring System

Ajay **Cheriy**, Albert **Jarvi**, Zbigniew **Kalbarczyk**, Ravishankar **Iyer**, Kenneth **Watkin****11:30 - 12:00 hrs D1-1A-2 ICBPEA00094-00173**

Prediction of Paroxysmal Atrial Fibrillation by Dynamic Modeling of the PR Interval of ECG

Mahnaz **Arvaneh**, Hamed **Ahmadi**, Asad **Azemi**, Mahnoosh **Shajee**, Zeinab Sadat **Dastgheib****12:00 - 12:30 hrs D1-1A-3 ICBPEA00083-00147**

Identification of Hearing Disorder by Multi-Band Entropy Cepstrum Extraction from Infant's Cry

Mahmoud **Mansouri Jam**, Hamed **Sadjadi****12:30 - 13:00 hrs D1-1A-4 ICBPEA00066-00100**

Design of HMI for Multipurpose Electrocardiography using Higher Level Language (Visual C++)

Chandrashekhhar V. **Ghule**, D. G. **Wakde**, Gurjinder Singh **Virdi**

Session: D1-1B - Biochips and Bioinstrumentation**Date: Wednesday, 2 December 2009****Time: 11:00 - 13:00 hrs****Venue: Discovery****Chair: Anny Cupo****11:00 - 11:30 hrs D1-1B-1 ICBPEA00016-00022**

A Cardiovascular Model for Blood Pressure Control Systems

P. C. A. **Ang**, B. W. **Ang**, K. Y. **Zhu****11:30 - 12:00 hrs D1-1B-2 ICBPEA00035-00053**

SEMG-based Upper Trapezius Emotional Information Extraction System: Design and Implementation

Gang **Li**, Jungtae **Lee****12:00 - 12:30 hrs D1-1B-3 ICBPEA00061-00090**

Advances in the Development of Ultraviolet Sterilization System for Specific Biological Applications

Belinda, Xiu Dan **Yeong**, Ravichandran **Subbaraman**, Wan Yi **Lim**, Kee Kwoon **Tan****12:30 - 13:00 hrs D1-1B-4 ICBPEA00066-00096**

Design of Portable ARM Processor based ECG Module For 12 lead ECG Data Acquisition and Analysis

Chandrashekhhar **Ghule**, D. G. **Wakde**, Gurjinder **Virdi**, Neeta R. **Khodke**

Session: D1-2A - Biomedical Signal Processing, Imaging and Visualization**Date: Wednesday, 2 December 2009****Time: 14:00 - 16:00 hrs****Venue: Breakthrough****Chair: Liao Kin****14:00 - 14:30 hrs D1-2A-1 ICBPEA00070-00120**

Enhancement of Optic Cup Detection from ARGALI using Key Points

Damon W.K. Wong, Jiang **Liu**, Ngan Meng **Tan**, Zehao **Tan**, Ying **Tang**, Zhuo **Zhang**, Joo Hwee **Lim**, Huiqi **Li**, Shijian **Lu**, Tien Yin **Wong****14:30 - 15:00 hrs D1-2A-2 ICBPEA00038-00056**

An Improved Echo Tracking Algorithm for Arterial Distensibility Measurements

Jayaraj Joseph, V **Jayashankar****15:00 - 15:30 hrs D1-2A-3 ICBPEA00063-00088**

A Comparison Analysis Between Partial Least Squares and Neural Network in Non-invasive Blood Glucose Concentration Monitoring System

Zheng Ming **Chuah**, Paramesran Raveendran, Sin Chew **Poh****15:30 - 16:00 hrs D1-2A-4 ICBPEA00059-00085**

Noise Reduction in DEXA Image based on System Noise Modeling

Ju Won Kwon, Sun Il **Cho**, Young Bok **Ahn**, Yong Man **Ro**

Session: D1-2B - Drug Discovery & Design / Targeted Drug & Gene Delivery**Date: Wednesday, 2 December 2009****Time: 14:00 - 16:00 hrs****Venue: Discovery****Chair: Pascal Basbry****14:00 - 14:30 hrs D1-2B-1 ICBPEA00015-00020**

Synergism from Combination of Platinums in Ovarian Cancer

Fazlul Hug, A. **Alshehri**, P. **Beale**, J. Q. **Yu****14:30 - 15:00 hrs D1-2B-2 ICBPEA00023-00037**

The Unique Gene Expression Profile of the Anti-tumour Agent, Cisplatin, Compared with its Clinically Ineffective Isomer, Transplatin

Vincent Murray, Anne **Galea****15:00 - 15:30 hrs D1-2B-3 ICBPEA00078-00133**

Biochemical Studies on the Effect of Medicinal Plants Gymnema and Andrographis Species on Diabetes Induced Wistar Rats

Roja Rani Anupalli, Venkatesh **K.**, Chakrapani **P.****15:30 - 16:00 hrs D1-2B-4 ICBPEA00068-00110***In Vitro* Simulation of Oral Dose Formulation Disintegration Using Gamma ScintigraphyChai-Hong Yeong, PE **Blackshaw**, Lip-Yong **Chung**, Kwan-Hoong **Ng**, Basri Johan Jeet **Abdullah**, Alan C. **Perkins****15:30 - 16:00 hrs D1-2B-5 ICBPEA00082-00138**Designing Hypothesis of Some 2,4-Disubstituted-Phenoxy Acetic Acid Derivatives as A Crth₂ Receptor Antagonist: A QSAR ApproachAbhishek Jain, Ramkishore **Agrawal**

Session: D1-3A - Assistive & Rehabilitation Technology

Date: Wednesday, 2 December 2009

Time: 16:30 - 18:30 hrs

Venue: Breakthrough

Chair: Huang Seng Lee

16:30 - 17:00 hrs D1-3A ICBPEA00011-00161

Analysis of a Novel Magnetic Stimulation System: Magnetic Harmonic Multi-Cycle Stimulation (MHMS)

Stefan Goetz, Thomas **Weyh**, Hans-Georg **Herzog**

17:00 - 17:30 hrs D1-3A ICBPEA00021-00035

A Voting and Predictive Neural Network System for use in a New Artificial Larynx

Megan Jill Russell, David Milton **Rubin**, Tshilidzi **Marwala**, Brian **Wigdorowitz**

17:30 - 18:00 hrs D1-3A ICBPEA00093-00174

Using Survival Models to Analyze the Effects of Social Attributes on Length of Stay of Stroke Patients

Chee-Keong Kwoh, Kheng-Hock **Lee**, Truc-Viet **Le**

18:00 - 18:30 hrs D1-3A ICBPEA00095-00176

A Surgical Training System for Temporal Bone Anatomy Education

Wen Xie, Weijia **Kong**, Enmin **Song**, Qiang **Zhang**

Session: D1-3B - Biostatistics and Clinical Data Analysis

Date: Wednesday, 2 December 2009

Time: 16:30 - 18:30 hrs

Venue: Discovery

Chair: Liu Jianjun

16:30 - 17:00 hrs D1-3B-1 ICBPEA00062-00086

Nonlinear Mixed Effects Pharmacokinetic/Pharmacodynamic Analysis of the Cholinesterase Inhibitor Pyridostigmine Bromide in Chinese Males

Kok Yong Seng, Loke Weng **Keong**, Moochhala **Shabbir**, Jon Deon **Lee**

17:00 - 17:30 hrs D1-3B-2 ICBPEA00072-00122

Fetal Biometry of Biparietal Diameter for Malaysian Pregnant Women

Ramzun Maizan Ramli, Mohammad Suhaimi **Jaafar**

17:30 - 18:00 hrs D1-3B-3 ICBPEA00013-00030

Analysis and Design of ICU Knowledge Management System (IKMS) for Indian Environment with Usability Perspective

Ganesh Bhutkar, Neela **Rajhans**, Dinesh **Katre**, Balaji **Barbadekar**, Priyadarshan **Dhabe**, Manikrao **Dhore**

Thursday, 3 December 2009

Session: D2-1A - Biomedical Signal Processing, Imaging and Visualization**Date: Thursday, 3 December 2009****Time: 11:00 - 13:00 hrs****Venue: Breakthrough****Chair: Chan Kap Lap****11:00 - 11:30 hrs D2-1A-1 ICBPEA00017-00029**

Feature Selection and Classification for Wireless Capsule Endoscopic Frames

Chee Khun Poh, Zhuo **Zhang**, Zi Yang **Liang**, Liyuan **Li**, Jiang **Liu****11:30 - 12:00 hrs D2-1A-2 ICBPEA00006-00013**

Geometrical and Texture Features Estimation of Lung Cancer and TB Images Using Chest X-Ray Database

Shrinivas Patil, V. R. **Udupi**, C. D. **Kane**, A. I. **Wasif**, J. V. **Desai**, A. N. **Jadhav****12:00 - 12:30 hrs D2-1A-3 ICBPEA00030-00051**

Recognition of Follicles in Ultrasound Images of Ovaries using Geometric Features

Prakash S. **Hiremath**, Jyothi R. Tegnoor**12:30 - 13:00 hrs D2-1A-4 ICBPEA00033-00109**

A New Wavelet Based Algorithm for Estimating Respiratory Motion Rate Using UWB Radar

Mehran Baboli, Seyed Ali **Ghorashi**, Namdar **Saniei**, Alireza **Ahmadian**

Session: D2-1B - Biomaterial and Biomolecular Engineering**Date: Thursday, 3 December 2009****Time: 11:00 - 13:00 hrs****Venue: Discovery****Chair: James Kah****11:00 - 11:30 hrs D2-1B-1 ICBPEA00065-00095**

Structural and Fluid Transport Characterization of Bio-scaffolds based on 3D Imaging Data

Bruno **Notarberardino**, Philippe **Young**, Gavin **Tabor**, Liang **Hao**, Irene **Turner**, Ashwani Harkara**11:30 - 12:00 hrs D2-1B-2 ICBPEA00091-00166**

Photosensitizing drugs loaded Stable carrier- Artificial Oil Bodies

Yu-Chi Chiou, Ping-Shan **Lai****12:00 - 12:30 hrs D2-1B-3 ICBPEA00081-00162**

Tremor Quantification and its Measurements on Parkinsonian Patients

Sairam **Akina**, Rupam, Venkateshwara **Rao**, Abhilash Prabhakar **Penumaka**, K. Harish**12:30 - 13:00 hrs D2-1B-4 ICBPEA00042-00062**

Development of Biodegradable Polymer: Effect of Cross-linked Trimethylolpropane Triacrylate and Electron Beam Irradiation

MD Enamul Hoque, Leng Chuan **Yong**, Yeong Jieh **Tan**, K **Zaman**, Chou Yong **Tan**

Session: D2-2A - Biomedical Signal Processing, Imaging and Visualization

Date: Thursday, 3 December 2009

Time: 14:00 - 16:00 hrs

Venue: Breakthrough

Chair: Zhang Zhou

14:00 - 14:30 hrs **D2-2A-1** **ICBPEA00032-00069**

Analysis of Diffuse Reflectance spectra of various skin conditions by Principal Component method
Shanthi Prince, Malarvizhi S.

14:30 - 15:00 hrs **D2-2A-2** **ICBPEA00034-00105**

An Accurate and Robust Algorithm for Detection of Heart and Respiration Rates Using an Impulse-Based UWB Signal
Mehran Baboli, Azadeh **Sharafi**, Alireza **Ahmadian**, Mohammad Saleh **Nambakhsh**

15:00 - 15:30 hrs **D2-2A-3** **ICBPEA00027-00044**

Non-invasive Measurement of Blood Flow Using Magnetic Disturbance Method
Chee Teck Phua, Gaëlle **Lissorgues**

15:30 - 16:00 hrs **D2-2A-4** **ICBPEA00022-00040**

Basic Study of New Diagnostic Modality by Non-invasive Measurement of the Electrical Impedance Tomography (EIT) on Localized Tissues
Kenji Okazaki, Akira **Tangoku**, Tadaaki **Morimoto**, Keigo **Hattori**, Ryosuke **Kotani**, Emiko **Yasuno**, Masatake **Akutagawa**, Yohsuke **Kinouchi**

Session: D2-2B - Tissue Engineering / Bionanotechnology and BioMEMS

Date: Thursday, 3 December 2009

Time: 14:00 - 16:00 hrs

Venue: Discovery

Chair: Zhuo Lang

14:00 - 14:30 hrs **D2-2B-1** **ICBPEA00036-00054**

Use of a Rotary Bioreactor for Growth and Differentiation of Mesenchymal Stem Cells
Xiang Sheng **Teh**, Yhee Cheng **Chng**, Woon Shin **Chong**, Toon Tien Foo

14:30 - 15:00 hrs **D2-2B-2** **ICBPEA00014-00019**

A Biologic Scaffold for Vocal Fold Tissue Engineering Based on the Human Umbilical Vein
Roger W. Chan

15:00 - 15:30 hrs **D2-2B-3** **ICBPEA00003-00009**

Self-Recognition of DNA - From Life Processes to DNA Computation
Chee Keong Benjamin Wong

15:30 - 16:00 hrs **D2-2B-4** **ICBPEA00057-00083**

A Novel Biomarker Discovery Method on Proteomic Data for Ovarian Cancer Classification
Mohammad **Alipoor**, Kani Parashkuh **Mohsen**, Javad Haddadnia

Friday, 4 December 2009

Session: D3-1A - Biomedical Signal Processing, Imaging and Visualization**Date: Friday, 4 December 2009****Time: 09:00 - 11:00 hrs****Chair: Vitali Zagorodnov****09:00 - 09:30 hrs D3-1A-1 ICBPEA00071-00123**

Experimental Study on Blood Flow Rate Measurement using Intravascular Catheter

Seng Sing Tan, Cheong Ming **Lam**, Woan Eng **Lim****09:30 - 10:00 hrs D3-1A-2 ICBPEA00034-00107**

A Framework for Simulation of UWB System for Heart Rate Detection

Mehran Baboli, Azadeh **Sharafi**, Alireza **Ahmadian**, Saeed **Karimi Fard****10:00 - 10:30 hrs D3-1A-3 ICBPEA00025-00041**

MiBank: A Web-based Integrated Medical Information System for Traumatic Brain Injury

Suisheng **Tang**, Zhuo **Zhang**, Boon Chuan **Pang**, CC Tchoyoson **Lim**, Beng Ti **Ang**, Cheng Kiang **Lee**, Chew Lim **Tan**, Tianxia **Gong**, Ruizhe **Liu**, Tian **Qi****10:30 - 11:00 hrs D3-1A-4 ICBPEA00093-00172**

Identifying Patterns of Conformational Changes in HLA-A*0201-related Immunological Activities

Charlie Nathanael **Otto**, Stephanus Daniel **Handoko**, Chee Keong Kwoh

Session: D3-1B - Biomechanics**Date: Friday, 4 December 2009****Time: 09:00 - 10:30 hrs****Chair: Partha Roy****09:00 - 09:30 hrs D3-1B-1 ICBPEA00054-00080**

Numerical Simulation for Nasal Flow with Partial Inferior Turbinatomy-A Turbulent Model

Xiao Bing Chen, Heow Pueh **Lee**, Vincent Fook Hin **Chong**, De Yun **Wang****09:30 - 10:00 hrs D3-1B-2 ICBPEA00018-00023**

An Alternative Index for Monitoring Microcirculatory Blood Flow: The Beat-to-beat Microcirculatory Blood Flow Variability

Hsin Hsiu, Wei-Chen **Hsu**, Chia-Liang **Hsu****10:00 - 10:30 hrs D3-1B-3 ICBPEA00040-00059**

Risk of rupture Analysis for Advanced Level of AAA Under Combined Physiological and Physical Condition

Ishkrizat Taib, Kahar **Osman**, Mohammed Rafiq **Abdul Kadir**, Muhamad Hasbullah **Padzillah**
