

Journal of Medical and Bioengineering

CONTENTS

Volume 4, Number 4, August 2015

Physiology

Muscle Synergy of Collegiate Rowers During 6 Min Maximal Rowing on Fixed and Slides Ergometer263
Shazlin Shaharudin and Sunil Agrawal

Study of the Effect of Salt Stress on Biometric Characteristics of Barley: *Hordeum Vulgare* L. (Poaceae) ...270
Abdelkader Hadj Seyd and Malika Ben Abderahmane

Force Plate Balance Response of Seafarers during Still and Rough Sea Conditions275
F. Gildenhuis and R. Dobson

Bioinformatics

Verification of GM2 Activator Protein for Potential Application as Lung Cancer Biomarker280
Laddawan. Potprommanee, Kongsak. Boonyapranai, Padchane. Sangthong, Busayamass. Chewaskulyong, Shui-Tein. Chen, and Lalida. Shank

Premalignant Pancreatic Cancer Diagnosis Using Proteomic Pattern Analysis288
Zaw Zaw Htike and Shoon Lei Win

The Rise of Mathematical Oncology293
Kiran George, R. Malathi, J. Krishnan, and Nisha Susan Thomas

Medical Device

Immobilization of Glucose Oxidase on Gold Surface for Applications in Implantable Biosensors297
Kuo-Yuan Hwa and Boopathi Subramani

Feasibility of the Fabrication of the Silicone Carotid Model by ‘Multi-Piece-Mold-Injection’ Method302
Peng Cao, Quan Yuan, Guillaume Olympe, Bruno Ramond, and François Langevin

Microcantilever based Biosensor for Disease Detection Applications307
P. G. Gopinath, V. R. Anitha, and S. Aruna Mastani

Pharmacology

In Vitro Anti-Inflammatory Activities of Red Gemor (*Nothaphoebe* cf *Umbelliflora*)312
Yudi Firmanul Arifin, Siti Hamidah, Sudin Panjaitan, and Eko Suhartono

Antidiabetic and Antioxidant Activity of Jackfruit (*Artocarpus Heterophyllus*) Extract318
Agung Biworo, Efrilia Tanjung, Iskandar, Khairina, and Eko Suhartono

Effect of *Centella Asiatica* on Oxidative Stress in Rat Lung after Formalin Exposure324
H. Nur-Hidayah, M. S. Nur-Khairah-Izzati, T. I. Rasyidah, M. A. Kaswandi, and R. M. Noah

Mesenchymal Stem Cell Infusion in Chronic Renal Failure Patients329
Hala Gabr and Rania A. Zayed

Toxicology

Effect of Heavy Metal on Malondialdehyde and Advanced Oxidation Protein Products Concentration: A Focus on Arsenic, Cadmium, and Mercury332

Iwan Aflanie, Ruslan Muhyi, and Eko Suhartono

Biomaterial

New Route in Degumming of Bombyx Mory Silkworm Cocon for Biomaterial.....338

Tjokorda Gde Tirta Nindhia, I Wayan Surata, Zdenek Knejzlik, Tomas Ruml, and Tjokorda Sari Nindhia