

Table of Contents

Preface

Identification of Bone Density Changes Applying Impedance Spectroscopy with a Piezo-Device Coupled to a Human Tooth J. Ortiz-Jimenez, H.A. Tinoco, C.I. Cardona, J.P. Gomez, F.N. Jiménez-Garcia and S. Roldan-Restrepo	1
Green Synthesis of ZnO Nanoparticles Using <i>Caesalpinia sappan</i> Leaf Extracts and its Antibacterial Activity on <i>Ralstonia solanacearum</i> P.J.G. Eugenio, M.M. Sarong, K.S.A.M. Rapanit, J.C.G.S. Galande, J.F. Nilo and J.J. Monserate	11
Nature-Inspired Nanoflower Structures on Titanium Surface via Alkali Treatment for Biomedical Applications J. Vishnu and G. Manivasagam	20
Responsive Calcium (Ca²⁺) Alginate-Chitosan Based Hydrogel: A Promising Biomaterial for Spinal Cord Injury F. A'yunni, P. Widiyanti and D. Hikmawati	29
Characterization of Indonesia Decellularized Liver Cubes Scaffold using Scanning Electron Microscopy A.A.A.P. Dewi, R.D. Antarianto and J.A. Pawitan	38
Development of Aldehyde Hyaluronic Acid - N,O-Carboxymethyl Chitosan based Hydrogel for Intraperitoneal Antiadhesion Application P. Widiyanti, Y.C.A. Priskawati, H. Wibowo and J. Ady	47
Tantalum as a Novel Biomaterial for Bone Implant: A Literature Review I. Putrantyo, N. Anilbhai, R. Vanjani and B. De Vega	55
The Identification of HSA-MIR-17-5P Existence in the Exosome of Adipose-Derived Stem Cells and Adipocytes S. Murlistyarini, L.P. Aninda, U.A. Afridafaz, S. Widyarti, A.T. Endharti and T.W. Sardjono	66
Characterization of Scleraxis and SRY-Box 9 from Adipose-Derived Stem Cells Culture Seeded with Enthesis Scaffold in Hypoxic Condition T. Prajasari, C.M. Zaim and H. Suroto	76
Micro-Computed Tomography Analysis on Administration of Mesenchymal Stem Cells - Bovine Teeth Scaffold Composites for Alveolar Bone Tissue Engineering D.S. Sari, F.D.E. Latief, Ferdiansyah, K. Sudiana and F.A. Rantam	86