

## DAFTAR PUSTAKA

- Anusavice, K. J., Shen, C., Rawls, H. R., 2013, *Phillips' Science of Dental Materials*, Saunders, Missouri, 25-26.
- Avery, J. K., Chiego, D. J., 2006, *Oral Histology and Embriology, A Clinical Approach*, 3<sup>rd</sup> Ed., Mosby Elsevier, Missouri, 161.
- Blackwood, K. A., Block, N., Dargaville, T. R., Woodruff, M. A., 2012, Scaffolds for Growth Factor Delivery as Applied to Bone Tissue Engineering, *International Journal of Polymer Science*, 2012: 1-25.
- Blanco-Gutierrez, V., Demourgues, A., Jubera, V., Gaudon, M., 2014, Eu(III)/Eu(II)-doped (Ca0.7Sr0.3)CO<sub>3</sub> phosphors with vaterite/calcite/aragonite forms as shock/ temperature detectors, *Journal of Materials Chemistry C*, 2: 9969-9977.
- Benni, S., Avramoglou, T., Hlawaty, H., Mora, L., 2014, Dynamic Contact Angle Analysis of Protein Adsorption on Polysaccharide Multilayer's Films for Biomaterial Reendothelialization, *BioMed Research International*, 2014: 1-11.
- Cheng, C., Wu, K., Chen, Y., Hung, S., 2015, Bacterial adhesion to antibiotic-loaded guided tissue regeneration membranes – A scanning electron microscopy study, *Journal of the Formosan Medical Association*, 114(1): 35-45.
- Clyne, A. M., 2011, Thermal Processing of Tissue Engineering Scaffolds, *Journal of Heat Transfer*, 133: 1-8.
- Dahlan, M. S., 2011, *Statistik untuk Kedokteran dan Kesehatan*, Salemba Medika, Jakarta: 55.
- Doroftei, F., Mihai, M., Sacarescu, L., Fundoreanu, G., Simionescu, B. C., 2015, Composite materials based on poly (N-isopropylacrylamide-co-methacrylic acid) hydrogels and calcium carbonate, *High Performance Polymers*, 27(5): 516-525.
- Elzoghby, A. O., 2013, Gelatin-based nanoparticles as drug and gene delivery systems: Reviewing three decades of research, *Journal of Controlled Release*, 172, 1075-1091.
- Erencia, M., Cano, F., Tornero, J. A., Macanás, J., Carrillo, F., 2015, Preparation of electrospun nanofibers from solutions of different gelatin types using a benign



solvent mixture composed of water/PBS/ethanol, *Polym. Adv. Technol.*, 27(3): 382-392.

Fu, L., Wang, Z., Dong, S., Cai, Y., Ni, Y., Zhang, T., Wang, L., Zhou, Y., 2017, Bilayer Poly(Lactic-co-glycolic acid)/Nano-Hydroxyapatite Membrane with Barrier Function and Osteogenesis Promotion for Guided Bone Regeneration, *Materials*, 10(257): 1-19.

Galleguillos-Silva, R., Vargas-Hernández, Y., Gaete-Garretón, L., 2017, Wettability of a surface subjected to high frequency mechanical vibrations, *Ultrasonics Sonochemistry*, 35(Part A): 134-141.

Gusrita, D., Ratnawulan, Gusnedi, 2014, Pengaruh Viskositas Fluida Terhadap Sifat *Hydrophobic* dari Berbagai Macam Daun, *Pillar of Physics*, 1: 9-16.

Hastuti, D., Sumpe, I., 2007, Pengenalan dan proses pembuatan gelatin, *MEDIAGRO*, 3(1): 39-48.

He, M., Jiang, H., Wang, R., Xie, Y., Zhao, C., 2017, Fabrication of metronidazole loaded poly ( $\epsilon$ -caprolactone)/zein core/shell nanofiber membranes via coaxial electrospinning for guided tissue regeneration, *Journal of Colloid and Interface Science*, 490: 270-278.

He, F., Zhang, J., Tian, X., Wu, S., Chen, X., 2015, A facile magnesium-containing calcium carbonate biomaterial as potential bone graft, *Colloids and Surfaces B: Bioamterials*, 136: 845-852.

Hurt, A. P., Getti, G., Coleman, N. J., 2014, Bioactivity and biocompatibility of a chitosan-tobermorite composite membrane for guided tissue regeneration, *International Journal of Biological Macromolecules*, 64: 11-16.

Huss, F. R. M., Nyman, E., Bolin, J. S. C., Kratz, G., 2010, Use of macroporous gelatin spheres as a biodegradable scaffold for guided tissue regeneration of healthy dermis in humans: An *in vivo* study, *Journal of Plastic, Reconstructive & Aesthetic Surgery*, 63(5): 848-857.

Huang, H., Wang, Y., Zhang, L., Wu, Y., Ji, T., Zhang, W., 2017, Study on Surface Tension of Membrane Made in Cellulose Diacetate, *Key Engineering Materials*, 744: 375-379.

Jaipan, P., Nguyen A., Narayan, R. J., 2017, Gelatin-based hydrogels for biomedical applications, *Materials Research Society*, 7, 416-426.



Kajikawa, T., Briones, R. A., Resuello, R. R. G., Tuplano, J. V., Reis, E. S., Hajishengallis, E., Garcia, C. A. G., Yancopoulou, D., Lambris, J. D., Hajishengallis, G., 2017, Safety and Efficacy of the Complement Inhibitor AMY-101 in a Natural Model of Periodontitis in Non-human Primates, *Molecular Therapy: Methods & Clinical Development*, 8(9): 207-215.

King, W. J., Krebsbach, P. H., 2012, Growth factor delivery: How surface interactions modulate release in vitro and in vivo, *Advanced Drug Delivery Reviews*, 64(12): 1239-1256.

Linh, N. T. B., Lee, B., 2011, Electrospinning of polyvinyl alcohol/gelatin nanofiber composites and cross-linking for bone tissue engineering application, *Journal of Biomaterials Applications*, 27(3): 255-266.

Liu, Y., Zhou, Y., Jiang, T., Liang, Y., Zhang, Z., Wang, Y., 2017, Evaluation of the osseointegration of dental implants coated with calcium carbonate: an animal study, *International Journal of Oral Science*, 9(3): 1-6.

Mahanani, E. S., Bachtiar, I., Ana, I. D., 2016, Human Mesenchymal Stem Cells Behavior on Synthetic Coral Scaffold, *Key Engineering Materials*, 696: 205-211.

Mao, X., Yang, L., Zou, Z., Luo, L., Zhang, X., Tian, D., Deng, H., Li, H., 2015, Dye responsive optical-electrochemical-wettability on a naphthalene-appended calix[4]arene clicking surface, *Sensors and Actuators B: Chemical*, 212: 371-376.

Mariod, A. A., Adam, H. F., 2013, Review: Gelatin, source, extraction and industrial applications, *Acta Sci. Pol., Technol., Aliment.*, 12(2): 135-147.

Mysak, J., Podzimek, S., Vasakova, J., Mazanek, J., Vinsu, A., Duskova, J., 2017, C-reactive protein in patients with aggressive periodontitis, *Journal of Dental Sciences*, 12(4): 1-7.

Newman, M. G., Takei, H. H., Klokkevold, P. R., Carranza, F. A., 2012, *Carranza's Clinical Periodontology*, 11<sup>th</sup> Ed., Saunders, Missouri: 103-104.

Nezu, A., Kubota, T., Maruyama, S., Nagata, M., Nohno, K., Morozumi, T., Yoshie, H., 2017, Expression of neprilysin in periodontitis-affected gingival tissues, *Archives of Oral Biology*, 79: 35-41.



- Nield-Gehrig, J. S., Willmann, D. E., 2011, *Foundations of Periodontics for the Dental Hygienist, 3<sup>rd</sup> Ed.*, Wolters Kluwer Health | Lippincott Williams & Wilkins, Philadelphia: 44 .
- Nuraje, N., Khan, W. S., Lei, Y., Ceylan, M., Asmatulu, R., 2013, Superhydrophobic electrospun nanofibers, *Journal of Materials Chemistry A*, 1(6): 1929-1946.
- Oryan, A., Alidadi, S., Moshiti, A., Maffulli, N., 2014, Bone regenerative medicine: classic options, novel strategies, and future directions, *Journal of Orthopaedic Surgery and Research*, 9(18): 1-27.
- Patriati, A., Ardhani, R., Pranowo, H. D., Putra, E. G. R., Ana, I. D., 2016, The Effect of Freeze-Thaw Treatment to the Properties of Gelatin-Carbonated Hydroxyapatite Membrane for Nerve Regeneration Scaffold, *Key Engineering Materials*, 696(27): 129-144.
- Peng, H. T., Martineau, L., Shek, P. N., 2008, Hydrogel-elastomer composite biomaterials: 3. Effects of gelatin molecular weight and type on the preparation and physical properties of interpenetrating polymer networks, *J. Mater. Sci.: Mater. Med.*, 19(3): 998-1007.
- Prasertsung, I., Mongkolnavin, R., Damrongsakkul, S., Wong, C. S., 2010, Surface modification of dehydrothermal crosslinked gelatin film using a 50 Hz oxygen glow discharge, *Surface & Coatings Technology*, 205(Supplement 1): 133-138.
- Qi, C., Zhu, Y., Chen, F., 2014, Microwave Hydrothermal Transformation of Amorphous Calcium Carbonate Nanospheres and Application in Protein Adsorption, *ACS Appl. Mater. Interfaces*, 6(6): 4310-4320.
- Rad, M. M., Khorasani, S. N., Ghasemi-Mobarakeh, L., Prabhakaran, M. P., Foroughi, M. R., Kharaziha, M., Saadatkish, N., Ramakrishna, S., 2017, Fabrication and characterization of two-layered nanofibrous membrane for guided bone and tissue regeneration application, *Materials Science and Engineering C*, 80: 75-87.
- Raucci, M. G., Demitri, C., Soriente, A., Fasolino, I., Sannino, A., Ambrosio, L., 2018, Gelatin/nano-hydroxyapatite hydrogel scaffold prepared by sol-gel technology as filler to repair bone defects, *J. Biomed. Mater. Res. A*, 106(7):2007-2019.
- Reddy, S., Wasnik, S., Guha, A., Kumar, J. M., Sinha, A., Singh, S., 2012, Evaluation of nano-biphasic calcium phosphate ceramics for bone tissue engineering



applications: *In vitro* and preliminary *in vivo* studies, *Journal of Bioamterials Applications*, 27(5): 565-575.

Saleh, A., McGarry, K., Chaw, C. S., Elkordy, A. A., 2018, Feasibility of Using Gluconolactone, Trehalose and Hydroxy-Propyl Gamma Cyclodextrin to Enhance Bendroflumethiazide Dissolution Using Lyophilisation and Physical Mixing Techniques, *Pharmaceutics*, 10(22): 1-16.

Sethu, S. N., Namashivayam, S., Devendran, S., Nagarajan, S., Tsai, W., Narashiman, S., Ramachandran, M., Ambigapathi, M., 2017, Nanoceramics on osteoblast proliferation and differentiation in bone tissue engineering, *International Journal of Biological Macromolecules*, 98: 67-74.

Sheikh, Z., Khan, A. S., Roohpur, N., Glogauer, M., Rehman, I. U., 2016, Protein adsorption capability on polyurethane and modified-polyurethane membrane for periodontal guided tissue regeneration applications, *Materials Science and Engineering C*, 68: 267-275.

Sukul, M., Nguyen, T. B. L., Min, Y., 2015, Effect of Local Sustainable Release of BMP2-VEGF from Nano-Cellulose Loaded in Sponge Biphasic Calcium Phosphate on Bone Regeneration, *TISSUE ENGINEERING: Part A*, 21(11-12): 1822-1836.

Suzuki, S., Morimoto, N., Ikada, Y., 2012, Gelatin gel as a carrier of platelet-derived growth factors, *Journal of Biomaterials Applications*, 28(4): 595-606.

Tamaddon, M., Samizadeh, S., Wang, L., Blunn, G., Liu, C., 2017, Intrinsic Osteoinductivity of Porous Titanium Scaffold for Bone Tissue Engineering, *International Journal of Biomaterials*, 2017: 1-11.

Vergaro, V., Carata, E., Panzarini, E., Baldassare, F., Dini, L., Ciccarella, G., 2015, Synthesis of calcium carbonate nanocrystals and their potential application as vessels for drug delivery, *AIP Conference Proceedings*, 1667:1-10.

Vo, T. N., Kasper, F. K., Mikos, A. G., 2012, Strategies for controlled delivery of growth factors and cells for bone regeneration, *Advanced Drug Delivery Reviews*, 64(12): 1292-1309.

Wang, J., Wang, L., Zhou, Z., Lai, H., Xu, P., Liao, L., Wei, J., 2016, Biodegradable Polymer Membranes Applied in Guided Bone/Tissue Regeneration: A Review, *Polymers*, 115(8): 1-20.



- Wang, Y., Liu, A., Ye, R., Wang, W., Li, X., 2015, Transglutaminase-induced crosslinking of gelatin-calcium carbonate composite films, *Food Chemistry*, 166: 414-422.
- Wu, X., Liu, Y., Li, X., Wen, P., Zhang, Y., Long, Y., Wang, X., Guo, Y., Xing, F., Gao, J., 2010, Preparation of aligned porous gelatin scaffolds by unidirectional freeze-drying method, *Acta Biomaterialia*, 6(3): 1167-1177.
- Xu, L., Bauer, J., Siedlecki, C. A., 2014, Proteins, Platelets, and Blood Coagulation at Biomaterial Interfaces, *Colloids Surf B Biointerfaces*, 124: 49-68.
- Xu, M., Zhang, X., Meng, S., Dai, X., Han, B., Deng, X., 2015, Enhanced Critical Size Defect Repair in Rabbit Mandible by Electrospun Gelatin/ $\beta$ -TCP Composite Nanofibrous Membranes, *Journal of Nanomaterials*, 2015: 1-9.
- Xu, X., Wang, X., 2011, Analysis of wetting and contact angle hysteresis on chemically patterned surfaces, *SIAM Journal on Applied Mathematics*, 71(5): 1753-1799.
- Xue, J., Shi, R., Niu, Y., Gong, M., Coates, P., Crawford, A., Chen, D., Tian, W., Zhang, L., 2015, Fabrication of drug-loaded anti-infective guided tissue regeneration membrane with adjustable biodegradation property, *Colloids and Surfaces B: Biointerfaces*, 135: 846-854.
- Yiğit, U., Kırzioğlu, F. Y., Uğuz, A. C., Naziroğlu, M., Özmen, Ö, 2017, Is caffeic acid phenethyl ester more protective than doxycycline in experimental periodontitis, *Archives of Oral Biology*, 81: 61-68.
- Yulianto, H. D. K., Morita, 2014, Potensi herbal buah mahkota dewa (*Phaleria Macrocarpa* (scheff.) Boerl) yang dimanfaatkan sebagai modifikator permukaan dan anti-adhesi bakteri *S. mutans* pada permukaan material restorasi resin komposit, *dentika Dental Journal*, 18(2): 158-164.
- Zhang, X., Zara, J., Siu, R. K., Ting, K., Soo, C., 2010, The Role of NELL-1, a Growth Factor Associated with Craniostostosis, in Promoting Bone Regeneration, *J. Dent. Res.*, 89(9): 865-878.
- Zhou, Z., Li, Y., Yao, S., Yan, H., 2016, Preparation of calcium carbonat@graphene oxide core-shell microspheres in ethylene glycol for drug delivery, *Ceramics International*, 42(2): 2281-2288.