

DAFTAR PUSTAKA

- Adams, R.H., Alitalo, K.M., 2007. Molecular of Regulation of Angiogenesis and Lymphangiogenesis, *Nature Reviews Molecular Cell Biology* 8(6);46, Vascular Development Laboratory, Cancer Research , UK London Research Institute, London, UK.
- Ajeesh, M., Francis, B.F., John Annie, Harikrishna Varma, P.R.,2013. Nano Iron Oxide Hydroxyapatite Composite Ceramics with Enchanted Radiopacity, *J.Mater Sci: Mater Med*, 21:1427-1434
- Anna, J., Manihar, S., 2012. *Kimia Analitik Kualitatif*, Universitas Negeri Medan, Medan
- Ana, I.D., Mudjosemedi, M., Sofro A.S.M., Leeuwenburgh S.C.G., Wolke, J.G.C., Ischikawa, K., Jensen, J.A., 2007. Development of Injectable Carbonate Apatite Bone Substitute Base on Transformation of Gypsum and Calcium Hydroxide: Preliminary Studies on Factors Influencing Carbonate Apatite Synthesis. *Trent, Technology and Innovation in Comprehensive Oral Health Care*, 29th Asia Pasific Dental Congress, Jakarta, 147.
- Ana, I.D., Puspita, R.M., Susanto, N.A.P., 2009. Pengaruh Penambahan Kolagen-Karbon Hidroksiapatit terhadap Jumlah Osteoblast dan Osteoklas pada Remodeling Tulang Tikus Sprague-Dawley, Fakultas Kedokteran Gigi, UGM, Yogyakarta
- Ana, I.D., Matsuya, S., Ishikawa, K., 2010. Engineering of Carbonate Apatite Bone Substitute Based on Composition-Transformation of Gypsum and Calcium Hydroxide, *Engineering* 2010, 2, SciRes: 344-352.
- Ana, I.D., Listyarifah D., Susilawati, R., 2011. Histompability Evaluation of Combination of Gypsum with Carbonated Hydroxyapatite as Bone Substitutes in Subcutaneous Tissue, *J.Med.Science*, Vol.43, No..2, Laboratory of Medicine, Gadjahmada University, Yogyakarta, Indonesia.
- Ana, I.D., Erwanto, Y., 2013. Evaluation of Osteoconductive Capacity of Bio-inspired Carbonate Apatite Bone Substitute in Goat Model. *International Symposium on Apatite and Correlative Biomaterials IV, 2013 in Nantes, France 5 to 8 June, 2013*.
- Aslan, K., Demiraslan, Y., Gurbuz, I., 2015. Morphometric Analysis of the Skull of New Zealand Rabbit (*Oryctolagus cuniculus* L). *According to Gender. Journal of Animal and Veterenary Sciences (AJVS)*. Kafkas University, Turkey.

- Ana, I.D., 2014. Modul Pengenalan Singkat Gama-CHA Your Bone Regeneration Scalfold, pdf. Hal:1-21.
- Bang, L. and Long B., 2014. Carbonate Hydroxyapatite and Silicon-Substituted, Carbonate Hydroxyapatite: Synthesis, Mechanical Properties, and Solubility Evaluations, *The Scientific World Journal* ;16(7): 1-7.
- Bao, P., Kodra, A., Tomic-Canic, M., Golinko, M.S., Ehrlich, H.P., Brem, H., 2009. The Role of Vascular Endothelial Growth Factor in Wound Healing, *Journal of Surgical Research* 153, pp347-58
- Bauer, T.W., Muschler, G.F., 2000. Bone Graft Materials : An Overview of The Basics Science. *Clin. Orthop. Relats. Res.*, Departement of Pathology, Cevaland Clinic Foundation, USA, p 10-27.
- Betsebroer, S.I., dan Kho, S.L., 2007, Developmental of A gelatin Apatite Nanocomposite for Bone Substituting Purposes, Tesis, Research Report "Blok 390", Departement of Periodontologi and Biomaterilas, Dental Departement Radboud University Nijmegen Medical Centre, 3-9.
- Bolboacă, S.D., Jăntschi, L., 2007 Similarities Analisis on Hydroxyapatite-Zirconia Composites, *Leonardo Journal Science*, p.153-164
- Browder, T., Folkman, J., Pirie-Sheperd, S., 2000. The Hemostatic System as A Regulator of Angiogenesis, *Journal of Biological Chemistry*, Vol. 275, No.3, Issue of January 21, pp.1521-1524.
- Brinker, R., Daniel, P.O. Connor., 2008. *Basic Science : Mark D. Miller Review of Orthopaedics*, 5th Edition, hal 19-21
- Burr, D.B., and Allen MR., 2014. *Basic and Applied Bone Biology*, Elsevier, Oxford, UK
- Cacchioli, A., Spaggiari, B., Ravanetti, F., Martini, F., Borghetti, P., Gabbi, C., 2006. The Critical Size Bone Defect: Morphological Study Of Bone Healing, *Ann Fac Medic. Vet di Parma*, Vol XXVI, 97-110.
- Caceci, T., 2011. *Cartilago and Bone*, <http://education.vetmed.vt.edu/Curriculum/M8054/Labs/Lab8/Lab8obs.htm>, diakses tanggal 20 april 2017.
- Canuto, R.A., Martinasso, G., Muzio G., Gallesio M, 2013. *Hydroxyapatite Paste Ostim®, without Elevation of Full-Thickness Flaps, Improves Alveolar Healing Stimulating BMP- and VEGF-Mediated Signal Pathways: An Experimental Study in Humans*. *Clin. Oral Impl. Res.* 24 (Suppl. A100), 42–48.

- Cao, G., Fahrenbach, M.L., Williams, J.T., Finkleisten, J.M., Xu Zhu, J., DeLisser, H.C., 2009. Angiogenesis in Platelet Endothelial Cell Adhesion Molecule-1-Null Mice, *The American Journal of Pathology*, Vol. 175, No.2.
- Carmeliat, P., Jain, R.K., 2000. Angiogenesis in Cancer and Other Disease, *InsightReview Articles*, The Centre,for Transgene Technology and Gene Therapy, Nature 14(9); 407: 249-257
- Carpenter, J.W., 2001.*Exotic Animal Formulary*, Zoological Medicine, Departement of Clinical Science CollegeofVeterenaryMedicine, Kansas State University, Manhattan, Kansas.
- Cheng Chen, W., Hsu, S.M., Ko, J.H., Lin, C.C., Lin, D.J., 2013. Effect of Bismuth Subgallate on Properties of Calcium Phospate Bone Cement in Vitro, *Journal of Medical and Biological Engineering*, 34(1):8-13
- Coomaraswamy, K.S., Lumley, P.J., Hofman, M.P., 2007. Effect of Bismuth Oxide Radioopacifier Content on The Material Properties of an Endodontisc Portland Cement-Based (MTA –like) System, *Journal of Endodontics*, Vol.3, Number 3
- Corrales, P.L., Esteves, L.M., dan Vick, J.E.R., 2014.Scaffold Design for Bone Regeneration,*J. Nanosci Nanotechnol*, 14(1): 15-56.
- Couto,E.V., Ballin, C.R., Sampaio, C.P.P., MMAeda, C.A.S., Ballin, C.H., Dassi, C.S., Miura, L.Y., 2015. Experimental Study on The Effects of Bismuth Subgallateon The InflammatoryProces and Angiogenesisof The Oral Mucosa, *Journal of Otorhinolaringology*,Brazillia,.
- Chiu, C.Y., Hsu, H.C., Tuan, W.H., 2007. Effect Zirconia Addition on the Microstructural Evolution ofPorosHydroksiapatite, *Ceramic International*, 33; 715-718
- Deckers, M.M., Kerperien, M., van der Bent, C., Yamashita, T., Papappoulos, S.E., Lowik, C., 2000. Expression of Vascular Endothelial Growth Factor and Their Receptor during Osteoblast Differentiation, *Endocrinology*; 141: 1667-1674.
- Delisser HM, *et al.*, 1997.Involvement of Endothelial PECAM-1/CD31 in angiogenesis.*Am.Pathol.* 151 : 671-677.
- Dimitriou, R., Tsiridis, E., Giannoudis, P.V., 2016. Current Concept of Molekular Aspectsof Bone Healing,*J.Care Injured*, Academic Departement of Trauma Surgery, School Medicine, University of Leeds, UK, 36: 1392-1404

- Dreesmann, L., Ahlers, M., Scholossbauer, B., 2007. The Pro-Angiogenic Characteristics of a Cross-Linked Gelatin Matrix, *Biomaterial J.*, NMI, Reutlingen, Germany.
- Ellis, L.G., Carter, J.M., Natiella, J.R., Featherstone, J.D., Nelson, D.G., 1988. Quantitative Analysis of Early in Vivo Tissue Response to Synthetic Apatite Implants, *J. Biomed Mater Res*, 22: 137-48
- El Raffa, A.M., 2004. Rabbit Production, 8th *World Rabbit Congres.*
- Enoch, S., Leaper D.J., 2005 Basic Science Wound Healing, *Surgery J*, The Publishing Company Ltd, Oxford University, 23:2
- Enrione, J., Osorio, F., Lopez D., Oppenheimer, C.W., Fuentes, M.A., 2010. Characterization of a Gelatin/Chitosan/ Hyaluronan Scaffold-Polymer. *Electronic Journal of Biotechnology*. Vol.13, Issue 5, p 20-21.
- Fawcett, D.W., 2002. *Buku Ajar Histologi (A Textbook of Histology) (terj.)*, EGC Jakarta.
- Ferrara, N., 2001 Role of Vascular Endothelial Growth Factor in Regulation of Physiological Angiogenesis, *Am J. Cell. Physiol*; 280 (6) p.1358-1366.
- Ferrara, N., Gerber, H.P., LeCouter, J., 2003. The Biology of VEGF and its Receptor, *Nat Med*; 9:669-676
- Fonseca, R.B., Haiter-Neto, F., Fernandez-Neto, A.J., Barbosa, G.A., Soares, C.J., 2004. Radiodensity of Enamel and Dentin of Human, Bovine and Swine Teeth, *Arch Oral Biol* 49:919-922
- Fowler, B.A., Sexton, M.J., 2007. *Bismuth: Handbook on the Toxicology of Metals*, Academic Press, Gunnar, Nordberg, Chapter 22, p.433 .
- Fowler, B.A., Sullivan, D.W., Sexton, M.J., 2015. *Bismuth: Handbook on the Toxicology of Metals*, Academic Press, Gunnar, Nordberg, Chapter 31, 4th Ed, Vol.2, p.655-666 .
- Folkman J, Haudenschild C., *Angiogenesis in Vitro. Nature*, 1980 Dec. 11; 288: 551-556.
- Garrant PR., 2003. *Bone Oral Cells and Tissues*, Quintessence Publishing Co, Illinois, 195-226.
- Gaikwad, V.V., Patil, A.B., Gaikwad, M.V., 2008. Scaffold for Drug Delivery in Tissue Engineering, *International Journal of Pharmaceutical Science and Nanotechnology*, Departement of Pharmaceutucs, Vol 1, Issue 2, p 113-122.

- Greaves, N.S., Ascroft, K.J., Baguneid, and Bayat, A., 2013. Current Understanding of molecular and Cellular Mechanisms in Fibroplasia and Angiogenesis during Acute Wound Healing, *J.Dermatol Sci.* 72 : 206-217
- Goldberg, I.D., and Rosen, E.R., 1997, *Regulation of Angiogenesis*, Dept of Radiation Oncology, Long Island Jewish Medical Centre, 1st ed, New York, USA
- Haertel E., Werner S., Schafer, M., 2014. Transcriptional regulation of wound inflammation, *J. Immunologi*, Institut of Molecular Health Science, Departement of Biologi, Swiss Federal Institut of Technology, Zurich, Switzerland.
- Hamed, S., Bennet, C.L., Demiot, C., Ullmann, Y., Teot, L., Desmoulière, A., 2013. Erythropoietin a Novel Repurposed Drug: An Innovative Treatment for Wound Healing in Patients with Diabetes Mellitus, *Wound Healing Society*, Remedor Biomed Ltd, Nazareth, Israel.
- Hammond, C.R., 2004. The Elements in Handbook of Chemistry and Physics, Ed 81st, Boca Raton, Florida, US, p. 41.
- Hasegawa, M., Doi, Y., Uchida., 2003. Cell Mediated Bioresorption of Sintered Carbonate Apatite in Rabbits, *J.Bone Joint Surgery*, 85(1) :142-147
- Hout, W.M., Van der Molen, A.M., Breugem, C.C., Koole, Van Cann, E.M., 2011. Reconstruction of the Alveolar Cleft: Can Growth Factor Aided Tissue Engineering Replace Autologous Bone Grafting? A Literature Review and Systematic Review of Results Obtained with Bone Morphogenetic Protein, *Clin Oral Invest.* Departement of Oral and Maxillofacial Surgery, University Medical Center Utrecht, Heidelbergiaan, Utrecht, Netherland.
- Hudyono, S., Pramono, C., 2001. *Penggunaan radiation Sterilized demineralized Human Bone Graft Powder dalam Bidang Bedah Mulut*, The 1st Indonesian Tissue Bank Scientific Meeting and Workshop on Biomaterial Application., Surabaya, hal. 49-56.
- Hupp J.R., 1998. *Wound Repair, Contemporary Oral and Maxillofacial Surgery*, 3rd ed., Peterson, L.J., Mosby Co., Philadelphia:57-62.
- Inkinen, 2003, *Connective Tissue Formation in Wound Healing*, Helsinki University Central Hospital, Finland.
- Italiano, Jr J.E., Richardson, J.L., Patel-Hett, S., Batenelli, E., Zaslavsky, A., Short, S., Ryeom, S., Folkman, J., Klement, G.L., 2008. Angiogenesis is Regulated by A Novel Mechanism: Pro and Antiangiogenic Proteins are

Organized Into Sepaarte Platelet α Granules and Differentially Released,
BloodFirst Edition Paper, The American Society of Hematology, Boston.

Indahyani, D.E., Hamza, Z., Lestari, P.E.,2016. Preliminary Study of Amorphous silica husk rice as Synthetics Bone Graft Material: The Effect on Osteoblast Actitities in Vitro,*Journal of Biomedical Material*.

Jayalandri, L.G., Nangoy, E., Posangi, J., Bara, R.A.,2016. Uji Efektivitas ekstrak melkati (*Jasminum Sambaci*) pada Penyembuhan Luka Insisi Kelinci (*Oryctolagus cuniculus*). *Journale-Biomedik(eBm, Vol 4, Nomor 1*.

Jebahi, S., dkk., 2012. Biologic Response to Carbonated Hydroxyapatite Associated with Orthopedic Device: Experimental Study in a Rabbit Mode,*The Korean Journal of Pathology* 2012; 46: 48-54.

Johnson, K.E.,2011.*Histologidan Biologi Sel*, Alih Bahasa oleh Arifin Gunawijaya, Binarupa Aksara, Tangerang,

Johnson, K.E., Wilgus, T.A., 2014. *Comphrehensive Invited Review: Vascular Endothelial Growth Factor and Angiogenesis in the Regulation of Cuttaneous Wound Repair* , Advance in Wound care Volume 43, Number 10 Mary Ann Liebert Inc., pp.647-61

Junqueira, L.C., 2007. *Histologi Dasar:Teksdan Atlas*, Terjemahan Adji Darma. EGC. Jakarta,

Kaigler, D., Avila, G., Lynch, L.W., Nevins, M.L., Nevins, M., Rasperini, G., 2011. Platelet Derived Growth Factor Appllication in Periodontal andPeriimplants Bone Regeneration, *Article of Biol.Ther.USA*, 11(3); 375-378.

Kamitakahara, M., Nagamori, T., Yokoi, T., Ioku, K., 2015, Carbonate-Containing Hydroxyapatite Syntesized by the Hydrothermal Treatment of Different Calcium Carbonate in a Phosphate-Containing Solution, *Journal of Asian Ceramic Societies*; 3: 287-291.

Kagel, E.M, and Einhorn, T.A.,1996. Alterations of Fractures Healing in The Diabetic Conditions, Iowa *J.Orthop.*,16, p: 147-152.

Kalfas, I.H., 2001.*Principles of Bone Healing, Neurosurg*, American Association of Neurological Surgeon.

Kamitakahara, M., Nagamori, T., Yokoi, T., Ioku, K., 2015.Carbonate-Containing Hydroxyapatite Syntesized by the Hydrothermal Treatment of Different Calcium Carbonate in a Phosphate-Containing Solution,*Journal of Asian Ceramic Societies*; 3: 287-291.

- Keswani, G.S., Balaji, S., Le, L.D., Leung, A., Parvadia, J.K., Frishcer, J., Yamano, S., Taichman, N., Crombleholme, T.M., 2013., Role Salivary Vascular Endothelial Growth Factor (VEGF) in Palatal Mucosal Wound Healing, *Wound Rep Reg*; 21; 554-562
- Kim, S.H., Tramontina V.A., Papalexou, V., Luczszyn, S.M., De Lima, A.A.S., do Prado, A.M.B., 2012. Bismuth Subgallate as a Topical Haemostatic Agent at the Palatal Wounds: a Histologic Study in Dogs, *Internasional Association Journal Oral and Maxillofacial Surgery*, Elsevier Ltd., 41: 239-243.
- Komlev, V.S., Fadeeva, I.V., Gurin, A.N., 2009. *Effect of the Concentration of Carbonate Groups in a Carbonate Hydroxyapatite Ceramic on Its In Vivo Behaviour*; *Inorganic Materials*; 45(3): 329-334.
- Kondo, T., Ishida Y., 2010. Molekulat Pathology of Wound Healing, *J. Forensic Science International*, Departemen of Forensic Medicine, Wakamaya Medical University, Japan
- Kovaleva, E.S., Shabanov, M.P., Putlyaev, V.I., 2009. Bioresorbable Carbonated Hydroxyapatite Powders for Bioactive Materials Preparation, *Central European Journal of Chemistry*; 7(2): 168-174.
- Kruger, G.O., 1984. *Text Book of Oral and maxillofacial Surgery*, 6th ed., The CV Cosby Co, St. Louis Toronto, pp. 364-5
- Kumar, G.L, Rudbeck L., 2009. *Immunohistochemical Staining Methods Educational Guide*. Ed 5th. California. 160.
- Kumar, V., Cotran, R.S., Robbins, S., 2014. *Buku Ajar Patologi*, Vol 1, Edisi 7, EGC, Jakarta
- Landi, E., Celloti, G., Logroscino, G., 2003. Carbonated Hydroxyapatite as Bone Substitute, *J. of European Ceramic Society*, 23: 2391-2397.
- Li, H., Sun, H., 2012. Recent Advances in Bioinorganic Chemistry of Bismuth, *J. Chemical Biology*, ScienceDirect, 6:74-83
- Lutfianto, B., 2017. *Eksresi mRNA Osteokalsin pada Pemberian Cangkok Tulang Carbonate Hydroksiapatite Pasca Pencabutan Gigi dengan Menggunakan Real Time Polymerase Chain Reaction (RT-CPR) pada 4 Pasien*, Program Studi Ilmu Bedah Mulut dan Maksilofasial, Fakultas Ked. Gigi, UGM, Yogyakarta.
- Matsui, M., Tabata, Y., 2012. Enhanced Angiogenesis by Multiple Release of Platelet-rich Plasma Contents and Basic Fibroblast Growth Factor from Gelatin Hydrogel, *J. Biomaterial*, Department of Biomaterial, Field of Tissue

- Engineering, Institute for Frontier Medical Science. Kyoto University, Japan
- Malhotra, N., Agarwal, A., Mala, K., 2013. Mineral Trioxide Aggregate: A Review of Physical Properties, *J.Dentalaegies*, Vol.34. Issue 2.
- Mayer, H., Bertram, H., Lindenmaier, W., Korff, T., Webwe, H., Weich, H., 2005. Vascular endothelial growth factor (VEGF-A) expression in human mesenchymal stem cell : autocrine and paracrine role on osteoblastic and endothelial differentiation, *J Cell Biochem* 2005;95, pp827-39
- Matsuura, A., Kubo, T., Doi, K., Hayashi, K., 2009. Bone Formation Ability of Carbonate Apatite-Collagen Scaffold with Different Carbonate Contents, *Dental Material Journal*; 28(2): 234-242.
- Meredith, A., 2007, Rabbits Dentistry, *EJCAP*, 17(1): 55-62
- Mescher, A.L., 2011. *Histologi Dasar Juqueira Teks dan Atlas*, EGC, Jakarta.
- McElderry, J.D.P., Zhu, P.Z., Mroue, K.H., Xu, J.D., Pavan, B., Fang, M., 2013. Crystallinity and Compositional Changes in Carbonated Apatites; Evidence from ³¹P Solid State NMR, Raman and Analysis. *J. Solid State Chem*, 206 :192-8.
- Minutti, C.M., Knipper, J.A., Zaiss, D.M.W., 2016. Tissue Specific Contribution of Macrophage to Wound Healing, *Seminars in Cell and Developmental Biology*, Published Elsevier Ltd, UK.
- Moore, WR., Graves, S.E., Bain, G.I., 2001. Synthetic bone Graft Substitutes, *ANZ J.Surg*, 71: 354-361
- Mundy, G.R., 1995. *Remodeling and Its Disorder*, Martin Dunitz Ltd, Philadelphia
- Murray, R.K., 2009. *Biokimia Harper*, Harper's Illustrated Biochemistry, Alih Bahasa: Brahm U, Editor : Wulandari, N. EGC, Jakarta.
- Nather, A., Ong H.J.C., Aziz, Z., 2005. *Bone Grafts and Bone Substitutes*, National University of Singapore, Singapore, [www.worldscibooks.com/ etextbook/5695/5695_chap01.pdf](http://www.worldscibooks.com/etextbook/5695/5695_chap01.pdf) diakses tanggal 20 April 2017.
- Nakajima, K., Fujita, J., Matsui, M., Tohyama, S., Noriko, T, Kanazawa, H., Seki, T., Kishino, Y., Hirano, A., Okada, M., Tabei, R., Sano, M., Goto, S., Tabata, Y., Fukuda, K., 2015. Gelatin Hydrogel Enhances the Engraftment of Transplanted Cardiomyocytes and Angiogenesis to Ameliorate Cardiac Function after Myocardial Infarction, *Research Article for Program of Regenerative Medicine*. Nigata University Graduate School of Medical and Dental Science, Japan.

- Nakamura, T., Matsumoto, K., 2005. Angiogenesis Inhibitors: from Laboratory to Clinical Application, *Biochemical and Biophysical Research Communication*, Vol.333, Issue 2, p 289-291.
- Nascimento, C., Issa, J.P.M., Iyomasa, M.M., Regalo, S.C.C.H., Selma, S., Pitol, D.L., Wolga, N.O., Pedrazzi, V., 2008, Bone Repair Using Mineral Trioxide Aggregate Combined to A Material Carrier, Associated or Not With Calcium Hydroxide in Bone Defects, *Micron*, Elsevier, Sao Paulo, Brazil.
- Newman, J.P., Newman, D.K., 2003. Signal Transduction Pathways Mediated by PECAM 1 New Roles for an Old Molecule in Platelet and Vascular Cell Biology, *Arterioscler Thromb. Vasc. Biol.* American Heart Association, USA.
- Ning, L., Malstrom, H., Ren, F.Y., 2015. Porous Collagen Hydroxyapatite Scaffolds Mesenchymal Stem Cell for Bone Regeneration, *JOI*, 41 (1):45-9
- O'Brien, F.J., 2011. Biomaterials and Scaffold for Tissue Engineering. *Anatomy Article*
- Orsted, H.L. 2009. *Basic Principle of Wound Healing: An Understanding of The Basic Physiology of Wound Healing Provides Clinician with The Framework to Implement The Basic Principles of Chronic Wound Care*, Sain des Pleis, Canada.
- Perona, R. 2006, Cell Signaling Growth Factor and Tyrosine Kinase Receptors, *Clin Trans Oncol*; 8(2): 77-82
- Pal, K., Banthia, A.K., Majumdar, D.K., 2009. Polymeric Hydrogels: Characterization and Biomedical Applications-A Mini Review. *Designed Monomers and Polymers*, hal.197-220.
- Pangestiningih, T.W., Budipitojo, T., Wihadyatami, H., Ariana, 2017, *Petunjuk Praktikum Teknik Laboratorium Mikroskopik: Mikroteknik*, Program Kesehatan Hewan, Departemen Teknologi Hayati dan Veteriner, UGM, Yogyakarta.
- Peterson J.L., 2003, *Oral and Maxillofacial Surgery*, 4th ed. The CV Mosby Company, St Louis, pp: 116-117.
- Park, S.Y., Sorenson, C.M., Shebani, N., 2015. PECAM 1 Isoforms, eNos, and Endoglin Axis in Regulation of Angiogenesis, *Clin Sci (Lond)*, University of Wisconsin, USA.

- Park, Y.J., Yang, C., Jung, I.H., Lim, H.C., Lee, Y.S., Jung, U.W., 2015. Regeneration of Rabbit Calvarial Defects Using Cell implanted Nano Hydroksiapatite Coated Silk Scaffold. *Biomater Res.*, 19: 1-10
- Patel, N., Gibson, I.R., Hing, K.A., 2002. The in Vivo Response of Phase Pure Hydroxyapatite and Carbonate Substituted Hydroxyapatite Granules of Varying Size Ranges, *Key Eng Mat*, 218: 383-86
- Patel, Z.S., Ueda, H., Yamamoto, M., Tabata Y., Mikos, G., 2008. In Vitro and in Vivo Release of Vascular Endothelial Growth Factor from Gelatin Micro particle and Biodegradable Composite Scaffold, *Pharmaceutical Research*, Spring Science and Business Media, LLC., Vol 25, No.10.
- Patel, V., Dwivedi, S.K., 2013. A review: Polarity of Molecules. *IJPRS Journal*. 2: 549-561
- Puia, S.A., Renou, S.J., Rey, E.A., Guglielmotti, M.B., 2009. Effect of Bismuth subgallate (A Hemostatic Agent) on Bone Repair; A Histological, Radiographic and Histomorphometric Study in Rats, *International Journal of Oral and Maxillofacial Surgery*, 38: 785-789
- Rau, J.V., Cesaro, S.N., Ferro, D., Barinov, S.M., Fadeeva, J.V., 2004. Study of Carbonate Loss from Carbonated apatites in Wide Temperature Range, *Journal of Biomedical Material Research Part B: Applied Biomaterial*, Vol. 71B, No.2, pp.441-447
- Ramjaun, R.A., Dilke, K.H., 2008. The role of Cell Adhesion Pathway in angiogenesis, *The International Journal of Biochemistry & cell Biology*, p. 521-530
- Ratanavaraporn, J., Damrosangkul, S., Sanchavanakit, N., Banaprasert, T., Kanokpanont, S., 2006. Comparison of gelatin and scaffold for fibroblast Cell Culture
- Rodriguez, I.A., Kalaf, E.A.G., Bowlin, G.L., Sell, S.A., 2014. Platelet rich Plasma in Bone Regeneration : Engineering the Delivery for Improved Clinical Efficacy, *Biomed Research International*, Article ID 392398.
- Riggs, G.G., Arzi, B., Cissell, D.D., Hatcher, C. D., Kass, P.H., Zhen, A., dan Frank Verstraete, J.M., 2016, Clinical Application of Cone-Beam Computed Tomography in Rabbit Head Normal: Part 1 Normal Dentition, *Frontiers In Veterinary Science*, 3(93):1-12.
- Ridwan, E., 2013, Etika Pemanfaatan Hewan Percobaan dalam Penelitian Kesehatan *J Indon Med.Assoc.* 63:112-116
- Sandor, G.K.B., 2003, *The Minimization Of Morbidity In Cranio-maxillofacial Osseous Reconstruction*, Academic Disertation, University of Oulu, Finland.
- Safwat, M.D., Habib, F., Bayat, A., Oweiss, N., Reffat, S., Algaid, S., 2009. Morphometric and Immunohistochemical Study of Angiogenesis Marker

Ekspression in Invasive Ductal Carcinoma of Human Breast, Faculty of Medicine
Anatomy, Al madinahAlmunawarah, Arab Saudi.

Seamen, M.E., Peirce, S.M., Kelly, K., 2011, Rapyd Analysis of Vessel Elements
(RAVE) : A Tool for Studying Physiologic, Pathologic and Tumor Angiogenesis,
Journal for Vascular Remodelling Analysis. Leiden University Medical Centre,
Netherlands.

Sachlos, E., Czernuska, J.T., 2003. Making Tissue Engineering Scaffolds Work, Review
on Application of Solid Freeform Fabrication Technology to the Production of
Tissue Engineering Scaffolds, *Journal of Cell and Materials*, Departement of
Materials, University of Oxford, Parks Road, Oxford, UK Vol. 5, p 29-40.

Sayan, H., Haktan, O.V., Guven, A., Ihsan, O., 2006. Erythropoetin Stimulates Wound
Healing and Angiogenesis in Mice, *J. Invest Surg.*, May-Jun; 19(3)163-173

Seeherman, H., Wozney, J., Li, R., 2002, *Bone Morphogenic Protein Delivery System*,
Spine, Aug 15, 27; 16-23.

Selvakumar, M., Srivastava, P., Pawar, H.S., Francis, N.K., 2016. On Demand Guded
Bone Regeneration with Microbial Protection Ornamented SPU Scaffold with
Bismuth-Doped Single Cristalline Hydroxyapatite; Augmentation and Cartilage
Formation, *Amercan Chemical Society*.

Serbo, J.V., Gerecht, S., 2013. Vascular Tissue Engineering: Biodegrdable Scaffolds
Platforms to Promote Angiogenesis, *Stem Cell Research & Therapy*, John Hopkins
University, Baltimore, USA

Shih, T., Lindley C., 2006. Bevacizumb : an Angiogenesis Inhibitor for The Treatment
of Solid Malignancies, *J. Clinical Therapeutics*, 28(11) 1779-1802.

Singh, B., A., Majundar, S., 2014. The Coomposite of Hydroxyapatite with Collagen as
Bone Graft Material, *J. Adv Med Dent Scie Res*, 2(4):53-55.

Sitanggang, E., 2016. *Ekspresi mRNA Alkaline Phospatase pada Soket Pencabutan Gigi
Pasca Implantasi Carbonate Hydroksiapatite (Analisis dengan Real Time PCR)*,
Program Studi Bedah Mulut dan Maksilofacial, Fakultas Kedokteran Gigi, UGM,
Yogyakarta

Spence, G., 2008. Carbonate Substituted Hydroxyapatite: Resorption by Osteoclast
Madifies the Osteoblastic response, *Journal of Biomedical Materials Reserach*;
90A (1): 217-224.

Sirois, M., 2005. *Laboratory Animal Medicine : Principles and Pocerdures*, Elsevier
Mosby, USA, hal 167-194.

Staton, C.A., Stribling, S.M., Tazzyman, S., Brown, N.J., Lewis, C.F., 2004. Current
Methods for Assaying Angiogenesis in Vitro and In Vivo International of
Experimental Pathology, University of Sheffield Medical School, Sheffield, USA .

- Stevenson, S., 1990, Bone grafting, Current Techniques in Small Animal Surgery, *Bojrab J* (ed), Philadelphia, Lea & Febiger, 836-844.
- Suardita, K., Arundina, I., Prijambodo, S.K., 2009. *Regenerasi Kerusakan Tulang Alveolar dengan Mesenchymal Stem Cell*, Perpunas, Jawa Timur.
- Sunarso, Sutarno, Tsuru, K., Ana, I.D., Ishikawa, K., 2011. Effect of Crosslinking to The Mechanical Property of Apatite Gelatin Hybrid For Bone Substitution Purposes, *Indo. J. Chem*, 11(3) 267-272
- Suchanek, W.L., Shuk, K., Byarappa, R., Riman, K., Tenhuisen, K.S., Janas, F., 2002. Mechanochemical-Hydrothermal Synthesis of Carbonated Apatite Powders at Room Temperature, *J. Biomaterials*, Vol. 23, pp. 699-710
- Sweeney, S.M., Di Lullo, G., Martinez, J., Lozz, R.V., Lauer-Fields, J.L., Fields, G.B., San Antonio, J.D., 2003. Angiogenesis in Collagen 1 Requires $\alpha 2\beta 1$ Ligation of a GER sequence and Possibly MAPK activation and focal Adhesion Dissassembly. *J. Biol. Chem*, 278: 30516-24
- Tabata, Y., 2003. Tissue Regeneration Based on Drug Delivery Technology, *Topics in Tissue Engineering E-Book*, Eds. N. Ashammakhi and P. Ferretti, p 1-32
- Torres, J., Tamimi, F., Alkhairasat, M., Futos, J.P., Cabarcos, E.L., 2011. *Bone Substitutes: Implant Dentistry-The Pormosing Discipline of Dentistry*, Universidad Rey Juan Carlos, Spanyol.
- Tortora, G.J., 2014. *Principles of Anatomy and Physiology*, Ed 4th, Bryn Dentickson, John Wiley & Soas, USA.
- Tramontina, V.A., Machado, M.A.N., Nogueira Filho, G. R., Kim, S.H., Vizzioli, M.R. Toledo, S., 2002. Effect Bismuth Subgallate (Local Hemostatic Agent) on Wound Healing in Rats. Histological and Histometric Findings, *Braz. Dent. J.*, 13(1):11-16
- Wang, Y., Takki, S., Cheung, O., Xu, H., Wan, W., Ohrstom, L., Inge, A.K., 2017. Elucidation of the elusive Structure and Formula of the Active Pharmaceutical Ingridient Bismuth Subgallate by Continous Rotation Electron Diffraction. *Chemical Communications*
- Yamamoto, M., Ikada, Y., Tabata, Y., 2001. Controled Release of Growth Factors Based on Biodegradation of Gelatin Hidrogel, *J. BioMater. Sci Polym Ed.* 12(1): 77-88
- Yang, N., Sun, H., 2007. Biocoordination Chemistry of Bismuth: Recent Advances, *Coordination Chemistry Reviews*, Elsevier B.V., University of Hongkong, Hongkong, China.
- Yang, N., Sun, H., 2011. *Enviromental Pollution and Health Effects*, Elsevier B.V., University of Hongkong, Hongkong, China.

Yen Lin, C., HsuanShen, Y., Hui Wu, S., Hung Lin, C., Min Hwang, S., Chieh Tsai, Y., 2004. Effet Bismuth Subgallate on Nitric Oxide and Prostaglandin E2 Production by Macrophages, *Bio Chem and Biophysical Research Communication* 315: 830-835 .

Zipfel, G.J., Guiot, B.H., Fessle, R.G., 2003. Bone Graft Physiology, *Neurosurg Focus* 14 (2):8.

Ziello, J.E., Jovin, I.S., Huang, Y., 2007. Hypoxia-Inducible Factor (HIF)-1 Regulatory Pathway and its Potential for Therapeutic Intervention in Malignancy and Ischemia, *Journal of Biology and Medicine*, Departement of Medicine, Vascular Biology and Transplantation Program, Yale University, New Haven, Connecticut.

- Baig, A., Fox, J.L., Su, J., Wang, Z., Otsuka, M., Higuchi, W.I., Legeros, R.Z., 1996. Effect of Carbonate Content Crystallinity on the Metastable Equilibrium Solubility Behaviour of Carbonate Apatite, *Journal of Colloidal and Interface Science*, Vol. 179, pp. 608-617
- Taylor, V., Newton, J.P., Simmons, D.L., Bird, I.N., Spragg, J.H., Salmon, M., Buckley, C.D., 1999. Homophilic PECAM -1 (CD-31) Interaction Prevent Endothelial Cell Apoptosis but Do Not Support Cell Spreading or Migration, *Journal of Cell Science* 112, 1989-1997
- Junqueira L.C. and Carneiro J., 1995, *Histologi Dasar*; Terjemahan Adji Darma. EGC. Jakarta, pp: 136-155,
- Leeson, C.R., Leeson, T.S., Paparo, A.A., 1995. *Buku Ajar Histologi*, 5 ed, p 106-117, EGC, Jakarta.
- Lukman, K, 1997. *Penyembuhan Patah Tulang Ditinjau dari Sudut Ilmu Biologi Molekuler*, Buletin Ikabi Cabang Jawa Barat; 4(1), hal. 29-46.

- Singh, B., A., Majundar, S., The Coomposite of Hydroxyapatite with Collagen as Bone Graft Material, *J. Adv Med Dent Scie Res*, 2(4):53-55.
- Abdurrahman, 2001. Perananan Bank Jaringan dalam Penyediaan Biomaterial, *The First Indonesian Bank Scientific Meeting and Workshop on Biomaterial Application*, RSUDDr. Soetomo, Surabaya
- Albelda, S.M., Muller. W.A., Buck, C.A., Newman, P.J., 1991. Molecular and Cellular Properties of PECAM-1, *J. Cell Biol.* 114 (5) : 1059 – 68
- Brinker, W.P., 1997. Bone Grafting in Small Animal Orthopaedic Fracture and Repair, W.B. Saunders Company, Philadelphia, pp; 147-153
- Cioban, C., 2013, Early Healing After Ridge Preservation with New Collagen Matrixes in Dog Extraction Sockets: Preliminary Observation, *Rom J. Morphol Embryol*, 54(1): 125-130.
- Garrant PR., 2003. *Bone Oral Cells and Tissues*, Quintessence Publishing Co, Illinois, 195-226.
- Gelse, K., Poßchl, E., Aigner, T., 2003. *Collagens - structure, function, and biosynthesis*, *Advanced Drug Delivery*, Elsevier B.V, 55: 1531– 1546,
- Gomis, A., Pawlak, M., Balazs, E., A., Schimdt, R, F., and Belmonte, C., 2004. *Effect of Different Molecular Weight Elastoviscous Hyaluronan Solution on Articular Nociceptive Afferent*, *Arthritis & Rheumatism*, 50 (1): 314-26.
- Ning, L., Malstrom, H., Ren, F.Y., 2015. Porous Collagen Hydroxyapatite Scaffolds Mesenchymal Stem Cell for Bone Regeneration, *JOI.*, 41 (1):45-9
- Oakes, D., Lee, C., dan Liberman, J., 2001. An Evaluation Of Osteoinductive Potential of Human Demineralized Bone Matrices in an Athimic Rat Femoral Defect Model, *Orthopedic Research Society*.
- Trenggono, B.S., 2006, *Pengaruh Campuran Puder Ekstrak Tendon Planta Bovine dan Hidroksiapatit Terhadap Durasi Oseointegrasi Implan Krom Kobalt dan Densitas Tulang Periimplan*, Disertasi, Universitas Gadjah Mada, Yogyakarta.
- Kisiel, M., 2013. *Bone Enhancement with BMP-2 for Safe Clinical Translation*, *Polimer Chemistry*, Sweden: Acta Universitatis Upsaliensis.
- Jan, A. 2010, *Effect of Hiperbaric Oxygen on Healing of Bone, Bone Grafts and Bone Grafts substitutes in Calvarian Defects*, Academic Disertation, University of Tampere, Finland.
- Peru, L., dan Dalculsi, G., 1994. *Syn Calcium Phosphates: Models for Biological Crystals*, *Clinical Material*, Elsevier Science Limited, 15: 267-72
- Sastroasmoro, S., dan Ismael, S., *Dasar-dasar Metodologi Penelitian Klinis*, ed.4, Sagung Seto, Jakarta, hal. 92-102.

Wolff, J., 1986. *The Law of Bone Remodeling*, Berlin Hiedelberg: Springer
(Translation of the German 1892).

Ferdiansyah, Rushadi, D., Rantam, F.A., dan Aulani'am, Regenerasi pada
Massive Bone Deffect dengan Bovine Hydroxyapatite sebagai Scaffold
Mesenchymal Stem Cell, *JBF* Vol. 13, No. 3, September 2011; hal. 179-
196.

Jun, Yang Yin, 2002, *Histology of Bone*, Departement of Pathology, University
Hospital, Upstate Medical University, Suny.

Thushara, R.M., Hemshekhar, M., Basappa, Kemparaju, Rangappa, K.S., Girish,
K.S., 2014. *Critical Review in Oncology Hematology*, Tumkar University,
Karnatak, India.

Regezy, J.A., Sciubba, J.J., dan Jordan, R.C.K., 2003, *Oral Pathology; Clinical
Pathologic Correlation*, 4th ed., Saunders, St.Louis Missouri, hal. 267-274.

Ana, I.D., Dewi, H.A., Wolke, J., Janse, J., 2015. *Behavior of POP-* Calcium
Carbonated hydrogel as Bone Substitute with Controlled Realease
Capability: a. Study in rat, *J. BiomedMater Res*, Part A 103A: 3273-
3283. Bone Biology

Ferrara, N., Chen., Davis, S.T., Gerber, H.P., Nguyen, T.N., Peers, D., Chisholm,
V., Hillan, K.J., and Schwall, R.H., 1998. Vascular Endothelial Growth
Factor is Essential for Corpus Luteum Angiogenesis. *Nature Med.* 4: 336-
340.