

DAFTAR PUSTAKA

- Abcam, 2010, *Anti-AMELX antibody (ab59705)*, <http://www.abcam.com/AMELX-antibody-ab59705.html>, diakses tanggal 13 Desember 2012
- Abdel-Rahman, M.S., Elrakhawy, F.I., Iskander, F.A., 1992, Endocrine Pancreas in The Postnatal Offspring of Alloxan Diabetic Rats, *Toxicol Lett*, 62(2):263-274
- Abeeleh, M.A., Ismail, Z.B., Alzaben, K.R., Abu Halaweh, S.A., Al Essa, M.K., Abuabeeleh, J., Alsmady, M.M., 2009, Induction of Diabetes Mellitus in Rats Using Intraperitoneal Streptozotocin : A Comparison between 2 Strains of Rats, *Eur J Sci Res*, 32(3):398-402
- ADA, 2005, Diagnosis and Classification of Diabetes Mellitus, *Diabetes Care*, 28 Suppl 1:37- 42
- Akbarzadeh, A., Norouzian, D., Mehrabi, M.R., Jamshidi, Sh., Farhangi, A., Verdi, A.A., Mofidian, S.M.A., Rad, B.L., 2007, Induction of Diabetes by Streptozotocin in Rats, *Indian J Clin Biochem*, 22(2):60-64
- Arsenina, O.L., Proskokova, S.V., Sazonova, E.N., 2010, Regulatory Peptides Influence on Hypoxia induced Tooth Germ Pathology of New Born Albino Rats, *Stomatologia*, 89(6):7-9
- Atar, M., Atar-Zwillenberg, D.R., Verry, P., dan Spornitz, U.M., 2004, Defective Enamel Ultrastructure in Diabetic Rodents, *Int J Paediatr Dent*, 14(4):301-307
- Avery, J.K. and Chiego, D.J., 2006, Development of Teeth, dalam *Essentials of Oral Histology and Embriology. A Clinical Approach*, 3th ed, Mosby Inc, Canada, 63-80
- Bass, J.K., and Chan, G.M., 2006, Calcium Nutrition and Metabolism during Infacy, *Nutrition*, 22:1057-1066
- Bath-Balogh, M. and Fehrenbach, M.J., 2006, Tooth Development and Eruption, dalam *Dental Embriology, Histology, and Anatomy*, 2nd ed, Elseviers Saunders, St Louis, 61-91
- Berkovitz, B.K.B., Moxham, B.J., Linden, R.W.A., Sloan, A.J., 2011, Early Tooth Development, Root Development (Including Cementogenesis) and Tooth Eruption, dalam *Master Dentistry, Oral Biology*, 3rd ed, Elseviers, UK, 113-147

- Bisman, B.M., and Othman, N.H., 2010, Correlation of Nuclear Morphometry and AgNOR Score with Radiation Response in Squamous Cell Cancers of the Head and Neck: A Preliminary Study, *Malaysian J Med Sci*, 17(3): 19-26
- Blanco-Dolado, L., Martin-Hidalgo, A., Herrera, E., 2002, Streptozotocin-induced Diabetes Decreases Mammary Gland Lipoprotein Lipase Activity and Messenger Ribonucleic Acid in Pregnant and Nonpregnant Rats, *Int. Jnl. Experimental Diab. Res.*, 3:61-68
- Bond, H., Sibley, C.P., Balment, R.J., Ashton, N., 2005, Increased Renal Tubular Reabsorption of Ca and Mg by The Offspring of Diabetic Rat Pregnancy, *Pediatr Res*, 57(6):890-895
- Bronckers, A.L., Bervoets, T.J., Woltgens, J.H., Lyaruu, D.M., 2006, Effect of Calcium, Given Before or After a Fluoride Insult, on Hamster Secretory Amelogenesis *in vitro*, *Eur J Oral Sci*, 114:S116-122
- Buchanan, T.A. and Xiang A.H., 2005, Gestational Diabetes Mellitus. *J Clin Invest*, 115(3):485-491
- Caluwaerts, S., Holemans, K., Bree, R., Verhaeghe, J., Assche, F., 2003, Is Low-Dose Streptozotocin in Rats an Adequate Model for Gestational Diabetes Mellitus?, *J. Soc. Gynecol Investig*, 10(4):216-221
- Carvalho, E.N., Carvalho, N.A.S., Ferreira, L.M., 2003, Experimental Model of Induction of Diabetes Mellitus in Rats, *Acta Cir Braz*, 18:60-64
- Chen, J., Zhang, Y., Mendoza, J., Denbesten, P., 2009, Calcium-Mediated Differentiation of Ameloblast Lineage Cells In Vitro, *J. Exp. Zool. (Mol. Dev. Evol.)*, 312B:458-464
- Collier, P.M., Sauk J. J., Rosenbloom, J., Yuan, Z.A., Gibson, C.W., 1997, An Amelogenin Gene Defect Associated with Human X-Linked Amelogenesis Imperfecta, *Arch Oral Biol*, 42: 235-242
- Crawford, J.M. and Cotrans, R.S., 1994, The Pancreas, dalam *Robbins Pathologic Basis of Disease*, 5th ed, Cotrans, R.S., Kumar, V., Robbins, S.L., WB Saunders, Philadelphia, 595-625
- Dahlan, M.S., 2011, *Statistik untuk Kedokteran dan Kesehatan*, Salemba Medika, Jakarta, 1-80

- Deutsch D, Haze-Filderman A, Blumenfeld A, Dafni L, Leiser Y, Shay B, Gruenbaum-Cohen Y, Rosenfeld E, Fermon E, Zimmerman B, Haegewald S, Bernimoulin, J-P, Taylor AL., 2006, Amelogenin, a Major Structural Protein in Mineralizing Enamel, is Also Expressed in Soft Tissues: Brain and Cells of the Hematopoietic System. *Eur J Oral Sci*; 114 (Suppl. 1): 183–189
- Etuk, E.U., 2010, Animals Models for Studying Diabetes Mellitus, *Agric. Biol. J. N. Am*, 1(2):130-134
- Fang, P., Conway, J.F., Margolis, H.C., Simmer, J.P., Beniash, E., 2011, Hierarchical Self-assembly of Amelogenin and The regulation of Biomineralization at The Nanoscale, www.pnas.org/cgi/doi/10.1073/pnas.1106228108, diakses tanggal 5 April 2013
- Federiuk I.F., Casey, H.M., Quinn, M.J., Wood, M.D., Ward W.K., 2004, Induction of Type-1 Diabetes Mellitus in Laboratory Rats by Use of Alloxan : Route of Administration, Pitfalls, and Insulin Treatment, *Comp Med*, 54(3):252-257
- Fincham, A.G., Moradian-Oldak, J., Simmer, J.P., 1999, The Structural Biology of the Developing Dental Enamel Matrix, *J Struct Biol*, 126:270-299
- Fong, C.D., Hammarstrom, L., Lundmark, C., Wurtz, T., Slaby, I., 1996, Expression Patterns of RNAs for Amelogenin in Developing Rat Molars and Incisors, *Adv Dent Res*, 10(2):195-200
- Forshbach-Sanchez, G., Tamez-Perez, H.E., Vazquez, L.J., 2005, Diabetes and Pregnancy, *Arch Med Res*, 36:291-299
- Fukomoto, S., Kiba, T., Hall, B., Lehara, N., Nakamura, T., Longenecker, G., Krebsbach, P.H., Nanci, A., Kulkarni, A.B., Yamada, Y., 2004, Ameloblastin is a Cell Adhesion Molecule Required for Maintaining the Differentiation State Ameloblast, *J Cell Biol*, 167(5):973-983
- Gad, S.C., 2007, The Rat, dalam *Animal Model in Toxicology*, 2nd ed, Tylor and Francis Group, New York, 162- 276
- Garn, S.M., Osborne, R.H., Alvesalo, L., Horowitz, S.L., 1980, Maternal and Gestational Influences on Deciduous and Permanent Tooth Size, *J Dent Res*, 59(2):142-143
- Gibson, C.W., 2001, Amelogenin-deficient Mice Display an Amelogenesis Imperfecta Phenotype, *J Biol Chem*, 276(34):31871-31875

- Gustafsson, M.V., Zheng, X., Pereira, T., Gradin, K., Jin, S., Lundkvist, J., Ruas, J.L., Jin, S., Lundkvist, J., Ruas, J.L., Poellinger, L., Lendahl, U., 2005, Hypoxia Requires Notch Signaling to Maintain the Undifferentiated Cell State, *Dev Cell*, 9:617-628
- Hall, J.E., 2011, Insulin, Glucagon, and Diabetes Mellitus dalam *Guyton and Hall Text Book of Medical Physiology*, 12th ed, Elseviers Saunders, Philadelphia, 939-954
- Han, J., Xu, J., Long, Y. S., Epstein, P. N., liu, Y. Q., 2007, Rat Maternal Diabetes Impairs Pancreatic β -cell Function in the Offspring, *Am J Physiol Endocrinol Metab*, 293:E228-236
- Hart, P.S., Aldred MJ, Crawford PJM, Wright NJ, Hart TC, Wright JT., 2002, Amelogenesis Imperfecta Phenotype-genotype Correlations with Two Amelogenin Gene Mutations, *Arch Oral Biol*, 47:261-265
- Hatakeyama, J., Philp, D., Hatakeyama, Y., Haruyama, N., Shum, L., Aragon, M.A., Yuan, Z., Gibson, C.W., Sreenath, T., Kleinman, H.K., Kulkarni, A.B., 2006, Amelogenin-mediated Regulation of Osteoclastogenesis and Periodontal Cell Proliferation and Migration, *J Dent Res*, 85(2):144-149
- Hatakeyama, J., Fukumoto, S., Nakamura, T., Suzuki, S., Hatakeyama, Y., Shum, L., Gibson, C.W., Yamada, Y., Kulkarni, A.B., 2009, Synergistic Roles of Amelogenin and Ameloblastin, *J Dent Res*, 88(4):318-322
- Heinis, M., Simon, M. T., Ilc, K., Mazure, N. M., Pouyssegur, J., Scharfmann, R., Duvillie, B., 2010, Oxygen Tension Regulates Pancreatic Beta-cell Differentiation through Hypoxia-inducible Factor 1alpha. *Diabetes*, 59:662-669
- Hoang, A.M., Klebe R.J., Steffensen B., Ryu, O.H., Simmer, J.P., Cochran, D.L., 2002, Amelogenin is a Cell Adhesion Protein, *J Dent Res*, 81(7):497-500
- Iessi, I.L., Bueno, A., Sinzato, Y.K., Spada, A.P.M., Rudge, M.V.C., Heubel, M.T.D.C., Damasceno, D.C., 2012, Neonatally Induced Diabetes : Liver Glycogen Storage in Pregnant Rats, *Braz. Biol.Technol*, 55(2):251-256
- Inage, T, Shimokawa, H., Wakao, K., Sasaki, S., 1996, Gene Expression and Localization of Amelogenin in the Rat Incisor, *Adv Dent Res*, 10(2):201-207
- Jacob, H.J., 2010, The Rat : A Model Used in Biomedical Research. Rat Genomics: Methods and Protocols, *Rat Genomics : Methods and Protocols, Methods in Molecular Biology*, 597:1-11

- Katge, F., Poojari, M., Sajnani, A., 2011, Malnutrition and Its Effects on oral Tissues and Dentition. *Indian J Dent Edu*, 4(3):45-49
- Kiss, A.C.I., Lima, P.H.O, Sinzato, Y.K., Takaku, M., Takeno, M.A., Rudge, M.V.C., Damasceno, D.C., 2009, Animal Models for Clinical and Gestational Diabetes : Maternal and Fetal Outcomes, *Diabetol Metab Syndr*, 1:21
- Klausen, B. 1991, Microbial and Immunological Aspects of Experimental Periodontal Disease in Rat : A Review Article, *J Periodont Res*, 33:387-399
- Koschnitzki, K.G., Goto, M., Myers, T.F., Zeller, W.P., 1997, A Mechanism of Hypoglycemia in Infants of Diabetic Mothers, *Pediatr Res*, 41:235-235
- Lagerström, M., Dahl, N., Nakahori, Y., Nakagome, Y., Backanan, B., Landegren, U., Petterson, U., 1991, A Deletion in the Amelogenin Gene (AMG) Causes X-linked Amelogenesis Imperfecta (AIH1), *Genomics*, 10:971-975
- Lampl, M., and Jeanty, P., 2004, Exposure to Maternal Diabetes is Associated with Altered Fetal Growth Patterns: A Hypothesis Regarding Metabolic Allocation to Growth Under Hyperglycemic-Hypoxemic Conditions, *Am J Hum Bio*, 16(3):237-263
- Larnani, S., Lestariana, W., Pudyana, P.S., 2011, Tooth Eruption and Alveolar Bone growth of Offspring of Diabetes Mellitus Rats with Calcium Carbonate Supplementation and Insulin Therapy, *Proceeding Book : The Future of Anatomy*, 178-183
- Lawrence, J.M., Contreras, R., Chen, W., Sacks, DA., 2008, Trends in the Prevalence of Preexisting Diabetes and Gestasional Diabetes Mellitus Among a Racially/Ethnically Diverse Population of Pregnant Women, 1999-2005, *Diabetes Care*, 31:899-904
- Lenzen, S., 2008, The Mechanisms of Alloxan- and Streptozotocin-induced Diabetes, *Diabetologia*, 51:216-226
- Lessi, I. L., Bueno, A., Sinzato, Y.K., Taylor, K.N., Rudge, M.V., Damasceno, D.C., 2010, Evaluation of Neonatally-Induced Mild Diabetes in Rats : Maternal and Fetal Repercussions, *Diabetol Metab Syndr*, 2:37-44
- Li, H.P., Chen, X., Li, M.Q. 2013. Gestational Diabetes Induces Chronic Hypoxia Stress and Excessive Inflammatory Response in Murine Placenta, *Int J Clin Exp Pathol*, 6(4):650-659

- López-Soldado, I. and Herrera, E., 2003, Different Diabetogenic Response to Moderate Doses of Steptozotocin in Pregnant Rats, and It's Long-Term Consequences in the Offspring, *Exp Diabetes Res*, 4:107-118
- Masharani, U. and German, M.S., 2007, Pancreatic Hormones & Diabetes Mellitus dalam *Greenspan's Basic & Clinical Endocrinology*, 8th ed, Diedit oleh D.G. Gardner and D. Shoback, The Mcgraw-Hill Companies, USA, 661-747
- Miletich, I. and Sharpe, P. T., 2003, Normal and Abnormal Dental Development, *Hum Mol Genet*, 12(1):69-73
- Morotomi, T., Kawano, S., Toyono, T., Kitamura, C., Terashita, M., Uchida, T., Toyoshima, K., Harada, H., 2005, In Vitro Differentiation of Dental Epithelial Progenitor Cells Through Epithelial-mesenchymal Interactions, *Arch Oral Biol*, 50(8):695-705
- Murthy, E.K., Pavlic-Renar, I., Metelko, Z., 2002. Diabetes and Pregnancy, *Diabetol Croat*, 31(3): 131-146
- Nagano, T., Oida, S., Ando, H., Gomi, K., Arai, T., Fukae, M., 2003, Relative Levels of mRNA Encoding Enamel Proteins in Enamel Organ Epithelia and Odontoblasts, *J Dent Res*, 82(12):982-986
- Nold, J.L., and Georgieff, M.K., 2004, Infants of Diabetic Mother, *Pediatr Clin N Am*, 51:619-637
- Nugroho, A.E., 2006, Hewan Percobaan Diabetes Mellitus : Patologi dan Mekanisme Aksi Diabetogenik, *Biodiversitas*, 7:378-382
- Oida S., Nagano T., Yamakoshi M., Ando H., Yamada M., Fukae M., 2002, Amelogenin Gene Expression in Porcine Odontoblast, *J Dent Res*, 81(2):103-108
- Paine, M.L., White, S.N., Luo, W., Fong, H., Sarikaya, M., Snead, M.L., 2001, Regulated gene Expression Dictates Enamel Structure and Tooth Formation, *Matrix Biol*, 20:273-292
- Paparella, M.L., Brandizzi, D., Santini-Araujo, E, Cabrini, R.L., 2007, Evaluation of Nucleolar Organizer Regions in Maxillary Osteosarcoma, *Acta Odontol Latinoam*, 20(1):55-60
- PERKENI, 2011, Pengelolaan Diabetes Melitus Tipe 2, dalam *Konsensus Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia*, PB PERKENI, Jakarta, 6-46

- Persaud, O.D.D., 2007, Maternal Diabetes and the Consequences for Her Offspring, *J Develop Disab*, 13(1): 101-133
- Powers, A.C., 2010, Diabetes Mellitus, dalam *Harrison's Endocrinology*, 2nd ed, Diedit oleh Jameson, J.L., The McGraw-Hill Companies, China, 267-313
- Price, A.A. and Wilson, L.M., 1995. Pankreas, dalam *Patofisiologi. Konsep Klinis Proses-proses Penyakit*, 4th ed., EGC, Jakarta, 1109-1119
- Robbins S.L. and Kumar V., 1995, Penyakit Genetika, dalam *Patologi I*, Edisi 4, Diedit oleh Jonatan Oswari, EGC, Jakarta, 90-140
- Ross, M.H., Kaye, G.I., Pawlina, W., 2003, Digestive System I : Oral Cavity and Associated Structures, dalam *Histology. A Text and Atlas with Cell and Molecular Biology*, 4th ed, A Walters Kluwer, Philadelphia, 440-448
- Santo, A.R., and Line, S., 2005, The Enamel Organic Matrix: Structure and Function, *Braz J Oral Sci*, 4:716-724
- Sasaki, S. and Shimokawa, H., 1995, The Amelogenin Gene, *Int. J. Dev. Biol.*, 39:127-133
- Schour, I. and Massler, M., 1971, The Teeth, dalam *The Rat in Laboratory Investigation*, Diedit oleh E.J. Farris and J.Q. Griffith, Hafner Press, New York, 104-161
- Sharma, R., Chauhan, S.S., Mahmood, A., 2012, Modulation of Intestinal Brush Border Membrane Chemical Composition during Postnatal Development in Rats : Effect of Gestational Diabetes, 2012, *Indian J Exp Biol*, 50:45-50
- Sharma, V.K., 2010, Streptozotocin : An Experimental Tool in Diabetes and Alzheimer's Disease (A Review), *Int J Pharma Res Dev – Online*, 2(1):1-7
- Silva-Sousa, Y.T.C., Peres, L.C., and Foss, M.C., 2003a, Enamel Hypoplasia in a Litter of Rats with Alloxan-Induced Diabetes Mellitus, *Braz Dent J*, 14(2):87-93
- Silva-Sousa, Y.T.C., Peres, L.C., Foss, M.C., 2003b. Are There Structural Alterations in the Enamel Organ of Offspring in Rats with Alloxan-Induced Diabetes Mellitus ?, *Braz Dent J*, 14(3):162-7
- Simmer, J.P. and Fincham, A.G., 1995, Molecular Mechanisms of Dental Enamel Formation, *Crit Rev Oral Biol*, 6(2):84-108
- Simmer, J.P. and Hu, J.C.C., 2001, Dental Enamel Formation and Its Impact on Clinical Dentistry, *J Dent Educ*, 65(9):898-905

- Smith, C.E. and Nanci, A., 1995, Overview of Morphological Changes in Enamel Organ Cells Associated with Major Events in Amelogenesis, *Int. J. Dev*, 39:153-161
- Smith, J.B. and Mangkoewidjojo, S., 1987, *The Care, Breeding and Management of Experimental Animals for Research in the Tropics*, IDP, Canberra, 36-52
- Suryabrata, S., 2009, Rancangan – rancangan Eksperimental, dalam Suryabrata, S, *Metodologi Penelitian*, Ed 2, Jakarta, 9–120
- Szkuldeski, T., 2001, The Mechanism of Alloxan and Streptozotocin Action in B Cells of the Rat Pancreas, *Physiol Res*, 50:536-546
- Tamas, G. and Kerenyi Z, 2001, Gestational Diabetes : Current Aspects on Pathogenesis and Treatment, *Ext Clin Endocrinol Diabetes*, 109 Suppl 2:400-411
- Taricco, E., Radaelli, T., Nobile de Santis, M.S., Bulfamante, G.P., Avagliano, I., Cetin, I., 2009, Effects of Gestational Diabetes on Fetal Oxygen and Glucose Levels *in vivo*, *BJOG*, 116:1729-1735
- Telser, A.G., Young J.K., Baldwin, K.M. 2007. Digestive System dalam *Elsevier's Integrated Histology*, <http://www.elsevierimages.com/image/34494.htm>, diakses tanggal 15 April 2013
- Ten Cate, A.R., 1985, Amelogenesis, dalam *Oral Hystology : Development, Structure, and Function*, Mosby Company, St. Louis, 83-197
- Torres-Quintana, M.A., Gaete, M., Hernandez, M., Farias, M., Lobos, N., 2005, Ameloblastin and Amelogenin Expression in Postnatal Developing Mouse Molars, *J Oral Sci*, 47(1):27-34
- WHO, 2011, *Diabetes*, <http://www.who.int/mediacentre/factsheets/fs312en.htm>, diakses tanggal 15 Januari 2013
- Wurtz, T., Lundmark, C., Christersson, C., Bawden, J.W., Slaby, I., Hammarstrom, L., 1996, Expression of Amelogenin mRNA Sequences During Development of Rat Molars, *J Bone Miner Res*, 11(1):125-131
- Ye, L., Le, T.Q., Zhu, L., Butcher, K., Schneider, R.A., Li, W., Den Besten, P.K., 2006, Amelogenin in Human Developing and Mature Dental Pulp, *J Dent Res*, 85(9):814-818

Yeh, C-K., Harris, S.E., Horn, D., Fajardo, R., Chun, Y-H.P., Jorgensen, J., MacDougall, M., Abboud-Werner, S., 2012, Hyperglycemia and Xerostomia are Key Determinants of Tooth Decay in Type 1 Diabetic Mice, *Lab Invest*, 92:868-882