

BIBLIOGRAPHY

- Abbas AK, Lichtman AH, Pober JS. Cellular and molecular immunology. 4th ed. Philadelphia: W.B Saunders, 2000.
- Baldwin PD, Pender N, Last KS. Effect on tooth movement of force delivery from nickel – titanium archwires. *Eur J Orthod* 1999; 21: 481-9.
- Bartold PM. Proteoglycans of the periodontium: Structure, role and function. *Periodont Res* 1987; 22: 431-44.
- Bartold PM, Miki Y, McAllister B, Narayanan AS, Page RC. Glycosaminoglycans of human cementum. *J Periodontal Res*. 1988 Jan; 23(1):13-7.
- Bartold PM. A biochemical and immunohistochemical study of the proteoglycans of alveolar bone. *J Dental Res* 1990; 69: 7-19.
- Baumrind S. A reconsideration of the propriety of the pressure-tension hypothesis. *Am J Orthod* 1969; 55:12-22.
- Bradford MM. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. *Anal Biochem* 1976 May 7;72:248-54.
- Caterson B, Hughes CE, Rougley P, Mort JS. Anabolic and catabolic markers of proteoglycan metabolism in osteoarthritis. *Acta Orthop Scan* 66 1995; 18: 820-3.
- Couchman JR, Caterson B, Christner JR, Baker JR. Mapping by monoclonal antibody detection of glycosaminoglycans in connective tissue. *Nature* 1984; 307: 650-52.
- Davidovitch Z. Cell biology association with orthodontic tooth movement. In; Berkovitz BKB, Moxham BJ, Newman HN (eds). *The periodontal ligament in Health and Diseases*. 2nd ed. St Louis. Mosby-Wolfe, 1995.
- Delima AJ, Van Dyke TE. Origin and function of cellular components in gingival crevice fluid. *Periodontol* 2000 2003; 31: 55-76.

- Embery G, Oliver WM, Stanbury JB, Purvis JA. The electrophoretic detection of acidic glycosaminoglycans in human gingival sulcus fluid. *Arch Oral Biol* 1982; 27: 177-79.
- Embery G, Last KS. Biochemical Markers of Peridontal Tissue Destruction. *Dent Update* 1899; 2: 167-72.
- Embery G, Waddington RJ, Hall RC, Last KS. Connective tissue elements as diagnostic aids in periodontology. *Periodontology* 2000 2000: 24; 193-214.
- Fuhua Y, Marshall R, Wynne S, Xiao Y, Bartold M. Glycosaminglycans in gingival crevicular fluid of patients with periodontal class III furcation involvement before and after guided tissue regeneration. A pilot study. *J Periodontol* 2000; 71: 1-7.
- Grieve WG, Johnson GK, Moore RN, Reinhardt RA, DuBois LM. Prostaglandin E (PGE) and interleukin-1b (IL-1b) levels in gingival crevicular fluid during human orthodontic tooth movement. *Am J Orthod Dentofac Orthop* 1994; 105: 369- 74.
- Giannobile WV, Al-Shammari KF, Sarment DP. Matrix molecule and growth factors as indicators of periodontal disease activity. *Periodontol* 2000 2003; 31: 125-34.
- Griffiths GS. Formation, collection and significant of gingival crevice fluid. *Periodontol* 2000 2003; 31: 32-42.
- Griffiths GS, Moulson AM, Petrie A, James IT. Evaluation of osteocalcin and pyridinim crosslinks of bone collagen as markers of bone turnover in gingival crevicular fluid during different stages of orthodontic treatment. *J Clin Periodontol* 1998; 25: 492-8.
- Hardingham TE. 2004. "Proteoglycans." [Online]. available at <http://www.glycoforum.gr.jp/science/word/proteoglycanPGA00E.html> (11 January 2005).
- Hill PA. Bone remodeling. *British J of Orthodontic* 1998; 25: 101-7.
- Insoft M, King GL, Keeling SD. The measurement of acid and alkaline phosphatase in gingival crevicular fluid during orthodontic tooth movement. *Am J Orthod Dentofac Orthop* 1996; 109: 287-96.

- Krempels DN. 2005. "Recombinant DNA Technology." [Online]. Available http://www.bio.miami.edu/dana/250/25003_10.html (11 January 2005).
- Kavadia-Tsatala S, Kaklamanos EG, Tsalikis L. Effect of orthodontic treatment on gingival crevicular fluid flow rate and composition: Clinical implications. *Int J Adult Orthognath Surg* 2002; 17: 191-205.
- Kagayama M, Sanano Y, Mizoguchi I, Kamo N, Takahashi I, Mitani H. Localization of glycosaminoglycans in periodontal ligament during physiological and experimental tooth movement. *J Periodont Res* 1996; 31: 229-34.
- Kimball JW. 2004. Enzyme-Linked Immunosorbent Assay (ELISA) [Online]. Available <http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/E/Elisa.html> (11 January 2005)
- Last KS, Donkin C, Embery G. Glycosaminoglycans in human gingival crevicular fluid during orthodontic movement. *Arch Oral Biol* 1988; 33(12): 907-12.
- Last KS, Stanbury JB, Embery G. Glycosaminoglycans in human gingival fluids as indicators of active periodontal disease. *Arch Oral Biol* 1985; 30: 275-81.
- Lodish H, Berk A, Zipursky SL, Matsudaira P, Baltimore D, Darnell J. *Molecular cell biology*. 4th ed. New York. W.H freeman, 2000.
- McCulloch CA, Lekic P, McKee MD. Role of physical forces in regulation the form and function of the periodontal ligament. *Periodontol* 2000 2000; 24: 56-72.
- Nishino W, Shibutani T, Murahashi Y. ELISA detection of proteoglycans in gingival crevicular fluid. *J Japan Ass Periodont* 1990; 32: 615-22.
- Offenbacher S, Odle BM, Van dyke TM. The use of crevicular fluid prostaglandin E2 levels as predictor of periodontal attachment loss. *J Perio Res* 1986; 21: 101-12.
- Okazaki J, Gonda Y, Kamada A, Fujita A, Sakaki T. High-performance liquid chromatography analysis of chondroitin sulfate isomers in human periodontium. *J Osaka Dent Univ* 1993; 27(2): 101-6.
- Peanmaneesuk S, Trianrong C, Kongtawelert P, Ong-chai S. Chondroitin sulphate epitopes in sera of normal and osteoarthritic horses. *Chiangmai Veterinary Journal* 2003; 1: 3-10.

- Pearson CH, Gibson JG. Sulfated galactosaminoglycans of bovine periodontal ligament. Evidence for the presence of two major types of hybrids but no chondroitin sulfate. *Connect Tissue Res.* 1982; 10(2): 161-71.
- Pender N, Samuel RHA, Last KS. The monitor of orthodontic tooth movement over a 2-year period by analysis of gingival crevicular fluid. *Eur J Orthod* 1994; 16: 511-20.
- Pothacharoen P. The quantitative analysis of chondroitin sulphate epitopes and hyarulonan as diagnostic marker for degenerative joint disease by ELISA technique. Graduate school, Chiangmai University, Thailand 2000.
- Proffit WR. *Contemporary Orthodontics*. 3rd ed. St. Louis: Mosby, 2000.
- Rahemtulla F. Proteoglycans of oral tissue. *Critical reviews in Oral biology and medicine* 1992; 3: 135-62.
- Ruoslahti E, Yamaguchi Y. Proteoglycans as modulators of growth factor activities. *Cell* 1991; 64: 867-69.
- Samuels RHA, Pender N, Last KS. The effect of orthodontic tooth movement on the glycosaminoglycan components on gingival crevicular fluid. *J Clin Periodontol* 1993; 20: 371-77.
- Schroeder HE. Biological problems of regenerative cementogenesis: synthesis and attachment of collagenous matrices on growing and establish root surfaces. *Int Rev Cytol* 1992; 142: 1-59.
- Shibutani T, Nishino W, Shiraki M and Iwayama. ELISA detection of glycosaminoglycan (GAG) – linked proteoglycans in gingival crevicular fluid. *J Periodont Res* 1993; 28: 17-20
- Shore R. 2002. Periodontal structure and function. [online]. Available <http://www.dentistry.leeds.ac.uk/OROFACE/PAGES/chapt3.html> (20 Jan 2005)
- Slater RR, Bayliss MT, Lachiewicz PF, Visco DM, Caterson B. Monoclonal antibodies that detect biochemical markers of arthritis in humans. *Arthritis & Rheumatism* 1995; 38(5): 655-9.

- Smith AJ, Addy M, Embery G. Gingival crevicular fluid glycosaminoglycan level in patients with chronic adult periodontitis. *J Clin Periodontol* 1995; 22: 355-61.
- Sodek J, McKee MD. Molecular and cellular biology of alveolar bone. *Periodontol* 2000 2000; 24: 99-126.
- Southard TE, Southard KA and Tolley EA. Periodontal force: A potential cause of relapse. *Am J Orthod Dentofac Orthop* 1992; 101: 221-7.
- Streuli C. Extracellular matrix remodeling and cellular differentiation. *Current Opinion in cell Biology* 1999; 11: 634-40.
- Schwartz NB. "Carbohydrate metabolism II: special pathway" in Text book of Biochemistry with clinical correlations, 2nd ed. John Wiley & Sons Inc., Canada, 1986.
- Tiengburanatam N. Production and characterization of monoclonal antibody against chondroitin-6-sulphate. Graduate school. Thailand, Chiangmai University 1996.
- Ten Cate AR. Oral Histology: development, Structure and Function. 5th ed. St Louis: Mosby, 1998.
- Uitto VJ. Gingival crevicular fluid – an introduction. *Periodontol* 2000 2003; 31: 9-11.
- Waddington RJ, Embery G, Last KS. Glycosaminoglycans of human alveolar bone. *Arch Oral Biol* 1989; 34: 587-9.
- Waddington RJ, Embery G. Structural characterization of human alveolar bone proteoglycans. *Arch Oral Biol* 1991; 36(12): 859-66.
- Waddington RJ, Embery G, Smith AJ. Immunochemical detection of the proteoglycans decorin and biglycan in human gingival crevicular fluids from sites of advance periodontitis. *Arch Oral Biol* 1998; 43: 287-95.
- Waddington RJ, Embery G, Samuels RH. Characterization of proteoglycan metabolites in human gingival crevicular fluid during orthodontic tooth movement. *Arch Oral Biol* 1994; 39(5): 361-8.
- Waddington RJ. Proteoglycans and orthodontic tooth movement. *J Orthod* 2001; 28: 281-90.