

# Dr Jin Gao

Bachelor of Dental Science, Master of Science, PhD

Senior Lecturer, Discipline Head in Oral Biology and Pathology, and Group Leader for Head and Neck Cancer Research

Dr Gao is a recipient of numerous awards including the Australian NHMRC Medical and Dental Postgraduate Scholarship, the prestigious Peter Doherty Fellowship and Project Grants, previously, and recently selected as the NHMRC project grant panel member. He is adjunct Professor at Tianjin Medical University and Sun Yat-Sen University. A Fellow of International Association of Oral Oncology; Members of International Association of Oral Pathology, and International Association of Dental Research

## Research expertise

- Oral cancer and cancer stem cell biology and molecular biology
- Dental caries and fluoridation
- Periodontal regeneration
- Development of early diagnostic and biotherapeutic tools for prostate cancer, head-neck cancer and its bone metastasis

## Current teaching areas

- Oral Biology
- Pathology
- Oral Pathology

## Publications (selected)

- Qiao B, Johnson NW and Gao J. 2010. Epithelial-mesenchymal transition in oral squamous cell carcinoma triggered by transforming growth factor- $\beta$ 1 is Snail family dependent and correlates with matrix metalloproteinase-2 and -9 expressions. *Int J of Oncology* (accepted June 2010, currently in print)
- Zhao H, Dong Y, Quan J, Smith R, Lam A, Wein-Stein S, Johnson NW, and Gao J. 2010. Correlation of hK4 and hK7 expression with patients survival in oral squamous cell carcinomas. *Head and Neck J* (accepted April 2010, currently in print)
- Zhou CX, Gao Y, Johnson NW and Gao J. 2010. MMP-2 and MMP-9 in human tongue OSCC. *Aus Dent J* (accepted January 2010, currently in print)
- Boslooper K, Lam A, Gao J and Johnson NW. 2008. The clinicopathological roles of alpha b-crystallin and p53 expression in patients with head and neck squamous cell carcinoma. *Pathology*; 40(5): 500 - 504
- Gao J, Collard R, Nicol D, Herington A and Clements J. 2007. Kallikrein 4 is a potential mediator of cellular interactions between prostate cancer cells and osteoblasts *in vitro*. *Prostate*; 67:348-360
- Gao J and Richardson DR. 2001. The potential of iron chelators of the pyridoxal isonicotinoyl hydrazone class as effective anti-proliferative agents, IV: The mechanisms involved in inhibiting cell-cycle progression. *Blood*; 98:842-50
- Gao J and Richardson DR. 2000. Multiple effects of iron chelators on molecules controlling cell cycle progression. *Transfusion Science*; 23:247-8
- Lovejoys D, Gao J, Richardson DR. 2000, Iron chelators as potential anti-neoplastic agents: their effects on molecules involved in proliferation. *Metal Ions in Biol&Med* 221-223
- Gao J, Lovejoy D, Becker E, Richardson DR. 1999. The effects of an iron chelator with protein antiproliferative effects on expression and activity of molecules involved in cell cycle control: a comparison between DFO and 2-hydroxy-1-Naphthylaldehyde isonicotinoyl hydrazone. *Redox Report*; 4:311-312

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- Gao J, Symons AL, Bartold PM. 1999. Expression of TGF- $\beta$  receptor Types II and III ... in the rat periodontium. *J Periodont Res*;34: 113-122
- Gao J, Symons AL and Bartold PM. 1998. Expression of TGF- $\beta_1$  in the developing periodontium of rats. *J Dent Res*; 77:1708-171
- Bartold PM, Clayden AM, Gao J, Haase HR, Li H, Stevens M, Young WG, Zhang CZ. 1998. The role of growth factors in periodontal and pulpal regeneration. *NZ Periodontol J*;83: 7-14
- Gao J, Symons AL and Bartold PM. 1998. Study of cytokines in the developing periodontium. *NZ Dent J*; 94: 115-116
- Gao J, Jordan B and Cutress TW. 1996. Immunolocalization of bFGF in human PDL tissue. *J Periodont Res*; 31:260-264
- Cutress TW, Suckling GW, Coote GE and Gao J. 1996. Fluoride uptake into the developing enamel and dentine of sheep incisors following daily ingestion of fluoridated milk or water. *NZ Dent J*; 92:68-72
- Suckling GW, Cutress TW, Coote GE and Gao J. 1995. Proton microprobe assessment of fluoride in sheep incisors following supplements. *Arch Oral Biol*; 40:439-446
- Gao J, Ma HD & Li SL. 1991. Diagnosis and pathogenesis of salivary gland carcinomas by lectins affinited histochemistry. *Chinese J Tumour* 1991;13:126-129
- Gao J, Ma HD, Du ZY and Hou ZY. 1989. Histogenesis of mucoepidermoid carcinoma in salivary glands by histochemical and immunohistochemical techniques. *J Tianjin Medical University*;4:51-56
- Gao J, Du ZY. 1989. Significance of agglutinin lectin test in salivary gland mucoepidermoid carcinoma. *Tianjin Medical J*;17:537-540
- Gao J, Ma HD and Yu C. 1989. On histological classification and clinical aspect of adenolymphoma of salivary glands. *J Modern Stomatol*;3:138-142
- Gao J, Du ZY and Ma HD. 1988. Clinicopathological and immunohistochemical study of adenolymphoma in salivary glands. *Chinese J Pathol*;3:231-3
- Gao J. 1988. Clinicopathological characters of calcifying odontogenic cysts. *J Tianjin Medical University*;2:40-42
- Li MJ and Gao J. 1988. Clinicopathological analysis of acinic cell carcinomas in salivary glands. *J Tianjin Medical University* 1988;2:38-40