

Dr Jin Xu

Publications & Conferences

1. **Xu J**, Shepherd RK, Xu SA, Seldon HL, Clark GM. Studies on pediatric auditory prosthesis implants. Nineteenth Quarterly Progress Report, NIH Contract NO1-DC-7-2342. 1991-1992.
2. Xu SA, **Xu J**, Seldon HL, Shepherd RK, Clark GM. (1993), Investigation of curved intracochlear electrode arrays. *Aust. J. of Oto-Laryngology* 1 :276.
3. **Xu J**, Shepherd RK, Xu SA, Seldon HL, Clark GM (1993). Pediatric cochlear implantation: radiological observations of skull growth. *Arch. Otolaryngol. Head Neck Surg.* 119:525-534.
4. Xu SA, McAnally KI, **Xu J**, Clark GM (1993). Comparison of half-band and full-band electrodes for intracochlear electrical stimulation. *Ann. Otol. Rhinol. Laryngol.* 102:363-367.
5. Marsh MA, **Xu J**, Blamey PJ, Whitford L, Xu SA, Abonyi J Clark GM (1993). Radiological evaluation of multiple-channel intracochlear implant insertion depth. *Am. J. Otology.* 14:386-391.
6. Shepherd RK, **Xu J**, Millard RE & Clark GM. Chronic electrical stimulation of the auditory nerve at high stimulus rates: Preliminary results. *Australia J, Otolaryngol.* 1(5):453, 1994.
7. **Xu J**, Xu SA, Clark GM and Marsh MA (1994). "Cochlear View" and its application in cochlear implant patients. *International Cochlear Implant, Speech and Hearing Symposium, Melbourne, Australia, 24-28 October.*
8. Treaba CG, Xu SA and **Xu J** (1995). Pre-curved electrode array and insertion tool. *Annals of Oto,Rhino & Laryngology, supplement 166, Vol. 104, No. 9, Part 2, P.438-441.*
9. **Xu J**, Shepherd RK, Clark GM. (1996). Chronic electrical stimulation of the auditory nerve at high rates: I. Effect on residual hearing. *Proceedings of the Australian Neuroscience Society. Vol 7, 231.*
10. Cohen LT, **Xu J**, Xu SA & Clark GM (1996). Improved and simplified methods for specifying the position of the electrode bands of a cochlear implant array. *American Journal of Otology, 17(6):859-865.*
30. **Xu J**, Shepherd RK, Millard RE and Clark GM (1997). Chronic electrical stimulation of the auditory nerve at high stimulus rates: a physiological and histological study. *Hear.Res.* 105:1-29.
31. **Xu J**, Xu SA, Cohen LT, Clark GM (2000). COCHLEAR VIEW : Post-operative Radiography for Cochlear Implantation. *Am J Otology.* 21(1):49-56.

32. **Xu J**, Stevenson AW, Gao D et al. (2000) Phase-contrast radiography: A new x-ray technique for cochlear implant research. In: Jahnke K, Fischer M, eds. 4th European Congress of Oto-Rhino-Laryngology, Head and Neck Surgery, Berlin, Monduzzi Editore, 2000:207-212.
33. **Xu J**, Tykocinski M, Saunders E, Clark GM, Cowan R. (2001) Application of advanced radiographic technology in cochlear implant research. The 3rd Asia Pacific Symposium on Cochlear Implant and Related Sciences. *Osaka, Japan*.
34. **Xu J**, Tykocinski M, Saunders E, Clark GM, Cowan R. (2001) A comparative study of phase-contrast and conventional X-ray imaging in human temporal bone samples. The 3rd Asia Pacific Symposium on Cochlear Implant and Related Sciences. *Osaka, Japan*.
35. **Xu J** et al. (2001) New radiographic imaging in cochlear implant researches. The 7th Chinese National Congress of Otolaryngology. Shanghai, China.
36. Xu SA, **Xu J**, Cowan R, Clark GM (2001) A review of the development of Nucleus peri-modiolar electrode array for advanced cochlear implant. The 7th Chinese National Congress of Otolaryngology. Shanghai, China.
37. **Xu J** et al. (2001) X-ray phase-contrast imaging. The 7th Chinese National Congress of Otolaryngology. Shanghai, China.
38. **Xu J**, Stevenson AW, Gao D, Tykocinski M, Lawrence D, Wilkins SW, Clark GM, Saunders E, Cowan R (2001). The role of x-ray phase-contrast imaging in the development of intra-cochlear electrode arrays. *Otology & Neurotology*. 22(6):862-868.
39. Shepherd RK & **Xu J** (2002). A multichannel scala tympani electrode array incorporating a drug delivery system for chronic intracochlear infusion. *Hear. Res.* 172, 92-98.
40. **Xu J**, Feng HN, Shepherd R (2003). Design of electrode assemblies for research on cochlear implant in live animals. 4th International Symposium on Electronic Implants in Otology & Conventional Hearing Aids, Toulouse, France.
41. Shepherd RK, **Xu J**, Wei L, Coco A, Epp SB, Colman B, Hardman JB, Gillespie LN, Millard RE (2004). 'Protective effects of patterned electrical stimulation on the deaf auditory system.' Third Quarterly Progress Report, NIH Contract N01-DC-3-1005, The Bionic Ear Institute: 1-10

42. Lu W, **Xu J**, Shepherd RK (2005). Cochlear implantation in rats: A new surgical approach. *Hear Res.* 205,115-122.
43. **Xu J** & Cowan R (2005). Role of micro-focus radiography and fluoroscopy in developing improved electrode arrays for cochlear implants. Proceeding of the 4th International Symposium on Electronic Implant in Otology; *Cochlear Implant International 6 (Supplement 1): 8-10.*
44. Tan J, Widjaja S, **Xu J** & Shepherd RK. (2006). *Effects of sensorineural hearing loss and long-term cochlear implants on activity-dependent gene expression in the rat auditory cortex.* Paper presented at the Bionics and Regeneration of the Ear.
45. Briggs RJS, Tykocinski M, **Xu J** et al. (2006) Cochlear implantation of a prototype hearing preservation electrode: Temporal bone and initial clinical results. The Australian ENT society (ASOHS) meeting, Melbourne, March 2006.
46. Briggs RJS, Tykocinski M, **Xu J** et al. (2006) Comparison of round window and cochleostomy approaches with a prototype hearing preservation electrode. *Audiology Neurotol* 11(suppl 1):42-48.
47. Hartley D, **Xu J**, Shial A et al. (2006) Bilateral cochlear implantation in the ferret. The twenty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology, ARO Abstracts, 29:94.
48. **Xu J**, Briggs R, Tykocinski M, Newbold C, Cowan R (2006) Dynamic investigations of intra-cochlear electrode insertion. Bionics and Regeneration of the Ear, Melbourne, 12-14 November.
49. **Xu J**, Widjaja S, Coco A, Donley, Lu W, Shepherd R (2006) Highlights of rat cochlear implant surgery with a fully implantable device. Bionics and Regeneration of the Ear, Melbourne, 12-14 November.
50. Lu W, **Xu J**. (2006) Micro-focus X-ray for cochlear implant research on small animals (in Chinese). *Chinese Journal of Otorhinolaryngology - Head and Neck Surgery*, 41(9):702-704.
51. Lu W, **Xu J**, Shepherd RK. (2006) The effect of cauterizing stapedial artery on the preservation of hearing and inner ear structures in rats. *The Sixth Chinese National Congress of audiology and speech pathology.* 26 June, Fuzhou, China.
52. Wise AK, **Xu J**, Fallon JB and Shepherd RK. (2007). Intracochlear stimulation in the mouse. 4th Australasian Auditory Neuroscience Workshop, Mt. Elisa, Australia.
53. **Xu J**, Briggs R, Tykocinski M, Newbold C, Risi F, Cowan R. (2007) SEEING ELECTRODE MOVEMENT IN THE COCHLEA : Micro-focus fluoroscopy – A great tool for electrode development. 6th Asia Pacific Symposium on

Cochlear Implants and Related Sciences, Sydney, 30th Oct – 2 nd November.

54. Isaiah A, Vongpaisal T, **Xu J**, Shepherd RK, King AJ, Hartley DEH (2008) A behavioural model of bilateral cochlear implantation. British Society of Audiology Meeting, University of Nottingham, 9-11 September 2008.
55. Tan J, Widjaja S, **Xu J**, Shepherd RK (2008). Cochlear implants stimulate activity-dependent CREB pathway in the deaf auditory cortex: implications for molecular plasticity induced by neural prosthetic devices. *Cereb Cortex*. 18:1799-1813.
56. **Xu J**, Stevenson A, Cowan R. (2008) Comparison of Imaging Plates and High-Resolution CCD for X-ray Micro-focus Imaging of Cochlear Implants, Including Future Prospects. Medicalbionics, 16-19 November 2008, Lorne, Victoria, Australia.
57. **Xu J**, Briggs R, Tykocinski M, Newbold C, Risi F, Cowan R (2009, In Press) SEEING ELECTRODE MOVEMENT IN THE COCHLEA : Micro-focus fluoroscopy – A great tool for electrode development. *Cochlear Implants International, Suppl.*

Patents

1. Xu SA, **Xu J**, Clark GM et al. “Curved Electrode Array”. Filed on 17 June 1993 under the patent Co-operation Treaty with Europe, Australia, Canada, Japan and USA. The international patent application No. PCT/AU93/00291.
2. Cohen LT, **Xu J** et al. “Method of calculating electrode frequency allocation from an X-ray of a cochlear implant”
3. Wallace G, Spinks G, Zhou D, Treaba C, Gibson P, **Xu J**, Cowan R. “Control of shape of an implantable electrode array”. Filed on June 9, 2004 as United States Patent Application No. 10/498116.