

# James Tysome

Mr Tysome completed a PhD in 2008 and now leads an active research programme in the field of hearing and balance. He supervises PhD and MPhil students, has edited three books, is the chief investigator of national clinical trials in tinnitus and has published over 40 papers in peer reviewed journals. He has an interest in Eustachian tube dysfunction and is one of the few surgeons performing Balloon Eustachian Tuboplasty in the UK.

Eustachian tube dysfunction is the basis of most otologic disease, yet is poorly understood and defined. I am working to determine which outcome measures are most useful and leading the development of a randomised clinical trial to compare the efficacy of balloon Eustachian tuboplasty with grommet insertion for the treatment of otitis media with effusion in children. I have an application to the NIHR for a grant to fund this currently under consideration.

I am working to improve outcome measures in hearing research and chair the Aural Rehabilitation Outcomes Network, an international group committed to developing core sets of outcome measures for different forms of hearing loss ([www.auronet.org](http://www.auronet.org)). I am also interested in improving outcomes of hearing implants and am part of the Cambridge University Hospitals Hearing Implant Research Group. We are working with partners in industry to deliver new cochlear implant technology.

## **Current Clinical trials open**

### **Chief Investigator**

Efficacy and Safety of AM101 in the Treatment of Acute Peripheral Tinnitus 3 (TACTT3)  
Multi-centre double blind RCT comparing efficacy of intratympanic injection of AM-101 with placebo aiming to recruit a 100 patients across 8 centres. This trial is industry led by Auris Medical.

Efficacy and Safety of AM101 in the Treatment of Acute Peripheral Tinnitus (AMPCAT2)  
A multi-centre open-label extension to TACTT3 assessing the efficacy of intratympanic injection of AM-101 in 50 patients. This trial is industry led by Auris Medical.

### **Principle Investigator**

Cambridge Otology Quality of Life (COQoL) Questionnaire surgical treatment of chronic suppurative otitis media validation study

The COQoL questionnaire was developed and validated for the assessment of quality of life in otology patients. This multi-centre trial will validate the CoQoL questionnaire specifically for chronic suppurative otitis media.

## **Publications in peer reviewed journals**

### **Key publications:**

Smith ME, Tysome JR. A review of tests for Eustachian tube dysfunction. Clin otolaryngol 2015;40(4):300-11

Tysome JR, Hill-Feltham P, Hodgetts WE, McKinnon BJ, Monksfield P, Sockalingham R, Johansson ML, Snik AF. The Auditory Rehabilitation Outcomes Network - AURONET: An international initiative to develop a core set of patient-centred outcome measures to assess interventions for hearing loss. Clinical Otolaryngol 2015;40(6)

Tysome JR, Axon PR, Donnelly NP, Durie-Gair J, Evans DG, Ferner RE, Macfarlane R, Mannion R, Nduka C, Morris K, Pretorius PM, Rands G, Rowe J, Taylor A. Current Concepts in Management of Vestibular Schwannomas in Neurofibromatosis Type 2. *Current Otorhinolaryngology Reports*. 2014; 2(4).

Tysome JR, Lemoine NR, Wang Y. Update on oncolytic viral therapy - targeting angiogenesis. *Onco Targets Ther*. 2013;6:1031-40

Tysome JR, Axon PR, Donnelly NP, Evans DG, Ferner RE, O'Connor AF, Freeman SR, Gleeson M, Halliday D, Harris F, Jiang D, Kerr R, King A, Knight RD, Lloyd SK, Macfarlane R, Mannion R, Mawman D, O'Driscoll M, Parry A, Ramsden J, Ramsden R, Rutherford SA, Saeed SR, Thomas N, Vanat ZH. English consensus protocol evaluating candidacy for auditory brainstem and cochlear implantation in neurofibromatosis type 2. *Otol Neurotol*. 2013 Dec;34(9):1743-7

Tysome JR, Li X, Wang S, Wang P, Gao D, Du P, Chen D, Gangeswaran R, Chard L, Yuan M, Alusi G, Lemoine NR, Wang Y. A novel therapeutic regime to eradicate established solid tumors with an effective induction of tumor-specific immunity. *Clin Cancer Res* 2012;18(24):6679-89

Tysome JR, Macfarlane R, Durie-Gair J, Donnelly N, Mannion R, Knight R, Harris F, Vanat ZH, Tam YC, Burton K, Hensiek A, Raymond FL, Moffat DA, Axon PR. Surgical management of vestibular schwannomas and hearing rehabilitation in neurofibromatosis type 2. *Otology Neurotology* 2012;33(3):466-72

Tysome JR, Wang P, Briat A, Alusi G, Gangeswaran R, Bhakta V, Francis J, Timiryasova T, Fodor I, Lemoine NR, Wang Y. Lister vaccine strain of vaccinia virus armed with the endostatin-angiostatin fusion gene: a superior oncolytic virus to dl1520 (ONYX-015) for human head and neck cancer. *Human Gene Therapy* 2011;22(9):1101-8

Tysome JR, Briat A, Alusi G, Cao F, Gao D, Yu J, Wang P, Yang S, Dong S, Wang S, Deng L, Francis J, Timiryasova T, Fodor I, Lemoine NR, Wang Y. Lister vaccine strain of vaccinia virus armed with endostatin-angiostatin fusion gene as a novel therapeutic agent for human pancreatic carcinoma. *Gene Therapy* 2009;16(10):1223-33

Tysome JR, Lemoine N, Wang Y. Combining anti-angiogenic therapy and virotherapy. *Curr Opin Mol Ther* 2009; 11(6):664-9

#### **Other papers:**

Eustachian tube dysfunction consensus. Tysome JR. *Clin Otolaryngol*. 2015 Oct;40(5):406

Hexter A, Jones A, Joe H, Heap L, Smith MJ, Wallace AJ, Halliday D, Parry A, Taylor A, Raymond L, Shaw A, Afridi S, Obholzer R, Axon P, King AT; English Specialist NF2 Research Group, Friedman JM, Evans DG. Clinical and molecular predictors of mortality in neurofibromatosis 2: a UK national analysis of 1192 patients. *J Med Genet*. 2015 Oct;52(10):699-705

Taylor RR, Jagger DJ, Saeed SR, Axon P, Donnelly N, Tysome J, Moffatt D, Irving R, Monksfield P, Coulson C, Freeman SR, Lloyd SK, Forge A. Characterizing human vestibular sensory epithelia for experimental studies: new hair bundles on old tissue and implications for therapeutic interventions in ageing. *Neurobiol Aging*. 2015 Jun;36(6):2068-84.

Martin TPC, Moualed D, Paul A, Ronan N, Tysome JR, Donnelly NP, Cook R, Axon PR. The Cambridge Otology Quality of Life Questionnaire: an otology-specific patient recorded outcome measure. A paper describing the instrument design and a report of preliminary reliability and validity. *Clinical Otolaryngol* 2015;40(2):130-9.

Broomfield SJ, Murphy J, Wild DC, Emmett SR, O'Donoghue GM; Aleksy W, Axon PR, Banerjee A, Bele D, Bowcott S, Bruce IA, Cochrane LA, Cooper S, Daft M, Donnelly N, Fitzgerald O'Connor A, Freeman SR, Gray RF, Green KM, Hajioff DA, Hanvey K, Harris R, Hartley BE, Hartley D, Hatton N, Hawthorne MH, Hellier W, Humphries J, Irving R, Jiang D, Jephson CG, Jonas NE, Jones L, Khan IM, Lavy JA, Lloyd SK, Maddocks J, Maggs JK, Marshall AH, Martin JM, Millward K, Mitchell T, Morrison G, Patel S, Pringle M, Raine CH, Rajput KM, Ramsden JD, Ramsden RT, Reid AP, Robinson PJ, Saeed SR, Selvadurai D,

Shaïda A, Speers A, Strachan DR, Toner JG, Tysome JR, Tzifa K, Twomey T, Wheeler A, Wilson K, Wyatt ME. Results of a prospective surgical audit of bilateral paediatric cochlear implantation in the UK. *Cochlear Implants Int.* 2014;15(5):246-53

Masterson L, Moualed D, Liu ZW, Howard JE, Dwivedi RC, Tysome JR, Benson R, Sterling JC, Sudhoff H, Jani P, Goon PK. De-escalation treatment protocols for human papillomavirus-associated oropharyngeal squamous cell carcinoma: A systematic review and meta-analysis of current clinical trials. *Eur J Cancer.* 2014;50(15):2636-2648

Walton J, Donnelly NP, Tam YC, Joubert I, Durie-Gair J, Jackson C, Mannion RA, Tysome JR, Axon PR, Scoffings DJ. MRI without magnet removal in neurofibromatosis type 2 patients with cochlear and auditory brainstem implants. *Otol Neurotol.* 2014 Jun;35(5):821-5.

Masterson L, Rouhani M, Donnelly NP, Tysome JR, Patel P, Jefferies SJ, Roques T, Scrase C, Mannion R, Macfarlane R, Hardy D, Durrani A, Price R, Marker A, Axon P, Moffat DA. Squamous cell carcinoma of the temporal bone: clinical outcomes from radical surgery and postoperative radiotherapy. *Otol Neurotol.* 2014;35(3):501-8.

Murillo-Sauca O, Chung MK, Shin JH, Karamboulas C, Kwok S, Jung YH, Oakley R, Tysome JR, Farnebo LO, Kaplan MJ, Sirjani D, Divi V, Holsinger FC, Tomeh C, Nichols A, Le QT, Colevas AD, Kong CS, Uppaluri R, Lewis JS Jr, Ailles LE, Sunwoo JB. CD271 is a functional and targetable marker of tumor-initiating cells in head and neck squamous cell carcinoma. *Oncotarget.* 2014;5(16):6854-66

Hiley C, Chard L, Gangeswaran R, Tysome JR, Briat A, Lemoine NR, Wang Y. Vascular Endothelial growth factor-A promotes vaccinia virus entry into host cells via activation of the Akt pathway. *J Virology* 2013;87(5):2781-90

Moffat DA, Lloyd SK, Macfarlane R, Mannion R, King A, Rutherford S, Axon PR, Donnelly N, Freeman S, Tysome JR, Evans DG, Ramsden RT. Outcome of translabyrinthine surgery for vestibular schwannoma in neurofibromatosis type 2. *Br J Neurosurg.* 2013;27(4):446-53.

Tysome JR, Moffat DA. Magnetic Resonance Imaging following translabyrinthine complete resection of vestibular schwannomas. *J Neurol Surg B* 2012;2:121-124

Connor SE, Siddiqui A, O'Gorman R, Tysome JR, Lee A, Jiang D, Fitzgerald-O'Connor A. Magnetic resonance imaging features of large endolymphatic sac compartments: audiological and clinical correlates. *J Laryngol Otol* 2012 ;126(6):586-93

Mahrous AK, Tysome JR, Davis JP. A prospective randomised controlled trial in one hundred and eleven patients to determine whether flexible nasendoscopic laryngoscopy is more comfortable for patients when performed above or below the inferior turbinate. *Clin Otolaryngol* 2012;37(3):238-40

Simo R, Nixon I, Tysome JR, Balfour A, Jeannon JP. Modified extended Kocher incision for total thyroidectomy with lateral compartment neck dissection - a critical appraisal of surgical access and cosmesis in 31 patients. *Clin Otolaryngol.* 2012 Oct;37(5):395-8

Tysome JR, Moorthy R, Lee AD, Jiang D, Fitzgerald O'Connor AF. Systematic review of middle ear implants: do they improve hearing as much as conventional hearing aids? *Otology Neurotology* 2010;31(9):1369-75

Lee A, Jiang D, McLaren S, Nunn T, Delmer J, Tysome JR, Connor S, Fitzgerald O'Connor A. Electric Acoustic Stimulation (EAS) of the Auditory System: Experience and Results of Ten Patients Using MED-EL's M and FlexEAS Electrodes. *Clin Otolaryngol* 2010;35(3):190-7

Elliott MS, Odell, EW, Tysome JR, Connor SEJ, Siddiqui A, Jeannon JP, Simo R. Role of thyroidectomy in advanced laryngeal and pharyngolaryngeal carcinoma. *Otolaryngol Head Neck Surg* 2010;142(6):851-5

Tysome JR, Jeannon JP, Simo R. Hydrogen peroxide aids assessment of pharyngeal closure after laryngectomy. *J Laryngol Otol* 2010;124(2):205-6

Tysome JR, Chandra A, Chang F, Puwanarajah P, Elliott M, Carroll P, Powrie J, Hubbard JG, Clarke

SEM, Jeannon JP, Simo R. Improving prediction of malignancy of cytologically indeterminate thyroid nodules. *Brit J Surg* 2009; 96(12):1400-9

Tysome JR, Hassan R, Davis JP. Standard bipolar diathermy vessel ligation for thyroidectomy. *Eur Arch Otorhinolaryngol* 2009; 266(11):1781-6

Wang Y, Gangeswaran R, Zhao X, Wang P, Tysome JR, Bhakta V, Yuan M, Chikkanna-Gowda CP, Jiang G, Gao D, Cao F, Francis J, Yu J, Liu K, Yang H, Zhang Y, Zang W, Chelala C, Dong Z, Lemoine N. CEACAM6 attenuates the ability of adenovirus to infect cancer cells by blocking Src-mediated viral trafficking. *J Clin Invest* 2009;119(6):1604-15

Tysome JR, Harcourt J, Patel MC, Sandison A, Michaels L. Aggressive Papillary Tumor of the Middle Ear: a True Entity or an Endolymphatic Sac neoplasm? *Ear Nose Throat J* 2008;87(7):378-93

Dexter S, Haiashi D, Tysome JR. The ANKLe score: an audit of otolaryngology emergency clinic record keeping. *Annals R Coll Surg* 2008;90(3):231-4

Haiashi D, Tysome JR, Barbaccia C. Sebaceous lymphadenoma of the parotid gland: report of two cases and review of the literature *Acta Otorhinolaryngol Italia* 2007; 27 (3):144-6

Tysome JR, Saleh HA. Sphenchoanal polyps presenting with concomitant nasal polyps. *Ear Nose Throat J* 2007; 86:50-52

Tysome JR, Henry RC. Silver nitrate suction diathermy. *Clin Otolaryngol* 2007;32:25

Tysome JR, Henry RC. Nasal catheter insertion for suction diathermy adenoidectomy – response to Whitehead. *Clin Otolaryngol* 2006;31:458

Tysome JR, Padgham ND. A comparative study of patient satisfaction with day case and inpatient major ear surgery. *J Laryngol Otol* 2006;120:670-5

Tysome JR, Henry RC. Nasal catheter insertion for suction diathermy adenoidectomy. *Clin Otolaryngol* 2006;31;237-8

Tysome JR, Sandison A, Clarke PM. Liposarcoma metastatic to the thyroid gland: a case report and literature review. *J Laryngol Otol* 2006;120:511-3

Tysome JR, Sharp HR. Current trends in the pre and postoperative management of functional endoscopic sinus surgery. *Int J Otorhinolaryngol* 2006;5:2

Tysome JR, Sharp HR. Current trends in photographic imaging for rhinoplasty surgery. *Int J Otorhinolaryngol* 2006;5:2

Tysome JR, Kangalingham J, Grant WE. Episodic painful oculomotor palsy from an orbital metastasis of oesophageal adenocarcinoma. *Int J Otorhinolaryngol* 2006;4(2)

Tysome JR, Harcourt J. How we do it: ionomeric cement to attach the stapes prosthesis to the long process of the incus. *Clin Otolaryngol* 2005;30;458-60

Gnanalingham KK, Tysome JR, Martinez-Canca J and Barazi B. Quality of clinical studies in Neurosurgical journal: Signs of improvement over three decades? *J Neurosurgery* 2005;103:439-44

Jiao LR, Tysome JR, Navarra G and Habib N. Liver resection in a patient with concomitant thoracoabdominal and cerebral aneurysms. *Hepatopancreatobil Surg* 2005;7:73-76

Tysome JR, Gnanalingham KK, Chopra I and Mendoza N. Intradural metastatic spinal cord compression from ACTH-secreting Pituitary Carcinoma – Case report and literature review. *Acta Neurochirurgica (Wien)* 2004;146:1251-4