

**Education:**

MSc	1992	Pembroke College, Oxford, UK
Post Doctoral Training	1984	University of Oxford, UK
PhD	1984	Bristol University Medical School, UK
BSc Hons	1980	St Andrews University, UK

**Awards and Honors:**

- Physiological Society (London) awards (2007 – 2011), UK
- William Ramsay Henderson Trust Research Grant, Scotland, UK
- Nuffield Foundation Grants, UK
- Consultant on NIH Grant, University of Arizona, Tucson, USA
- Wellcome Trust Travel Grant, Hong Kong
- Wellcome Trust Research Grants, UK
- Human Frontier Science Program fellowship, University of Arizona, Tucson, USA
- European Training Programme Winter School at Zuoz, Switzerland
- Royal Society Equipment Grant, UK
- Medical Research Council Research Grant, UK
- Science and Engineering Research Council (BBSRC) Research Grant, UK
- Science and Engineering Research Council (BBSRC) CASE Studentship, UK

**Appointments:**

- Associate Professor, Alfaisal University 2012-present
- Lecturer, University of Stirling, 1994-2012
- Research Lecturer, University of Stirling, 1990-1993
- Postdoctoral Research Assistant (Medical Research Council), University of Oxford, 1984-1989

**Memberships**

- Fellow of the Royal Statistical Society, GradStat
- Member of the British Pharmacological Society
- Ordinary Member of the Physiological Society of London
- Foreign member of the Society for Neuroscience

**Research Interests:**

**Neuroscience:** Transmission mechanisms in somatosensory pathways, with specific attention to excitatory amino acid receptors and potassium channels. Electrophysiological methodology in the primary somatosensory (barrel) cortex of the rat and using an in vitro isolated rat vibrissa preparation.

I am currently collaborating with Dr S. Senok, College of Medicine, Alfaisal University, Riyadh, Saudi Arabia, and with Dr Guy Bewick, School of Medical Sciences, University of Aberdeen and Dr Bob Banks, School of Biological and Biomedical Sciences, Durham University.

#### **Current projects:**

- Mechanosensory lanceolate nerve terminals of mammalian hair follicles, Aberdeen & Durham.
- The role of potassium channels in mechanotransduction in slowly adapting mechanoreceptors.

#### **Recent Full Papers & Book chapters**

De Winter, P. & Cahusac, P.M.B. (2014) *Starting out in Statistics*, Wiley Blackwell. In Press.

Banks, RW, Cahusac, PM, Graca, A, Kain, N, Shenton, F, Singh, P, Nja, A, Simon, A, Watson, S, Slater, CR & Bewick, GS (2013) Glutamatergic modulation of synaptic-like vesicle recycling in mechanosensory lanceolate nerve terminals of mammalian hair follicles, *Journal of Physiology*, 591(10):2523-2540.

Cahusac, P.M.B. (2010) Multiple Regression, *Physiology News*, 80:12-15.

Cahusac, P.M.B. (2009) Effects of transient receptor potential (TRP) channel agonists and antagonists on slowly adapting type II mechanoreceptors in the rat sinus hair follicle, *Journal of the Peripheral Nervous System*, 14:300-309.

Cahusac, P.M.B. (2009) Statistical methodology and reporting – the case for confidence intervals, *Physiology News*, 74:33-36.

Cahusac, P.M.B. & Mavulati, S.C. (2009) Non-competitive mGlu1 receptor antagonists block activity of slowly adapting type I mechanoreceptor units in the rat sinus hair follicle, *Neuroscience*, 163:933-941.

Cahusac, P.M.B. (2008) Glutamate signalling in the skin, In: *Amino Acid Receptor Research*, Paley, E. F. and Warfield, T. E., Nova Science Publishers, 125-137.

Cahusac, P.M.B. & Noyce, R. (2007) A pharmacological study of slowly adapting mechanoreceptors responsive to cold thermal stimulation, *Neuroscience*, 148:489-500.

Dolan, S. & Cahusac, P.M.B. (2007) Enhanced short-latency responses in the ventral posterior medial (VPM) thalamic nucleus following whisker trimming in the adult rat, *Physiology & Behavior*, 92:500-506.

Aggestam, F. & Cahusac, P.M.B. (2007) Behavioural lateralization of tactile performance in the rat, *Physiology & Behavior*, 91:335-339.

Cahusac, P. M. B. & Wan, H. (2007) Group II metabotropic glutamate receptors reduce excitatory but not inhibitory neurotransmission in rat barrel cortex in vivo, *Neuroscience*, 146:202-212.

Braid, L. & Cahusac, P. M. B. (2006) Decreased sensitivity to self-inflicted pain, *Pain*, 124:134-139.

Cahusac, P.M.B. & Senok, S.S. (2006) Metabotropic glutamate receptor antagonists selectively enhance responses of slowly adapting Type I mechanoreceptors, *Synapse*, 59:235-242.

Cahusac, P.M.B., Senok, S.S., Hitchcock, I., Genever, P. & Baumann, K.I. (2005) Are unconventional NMDA receptors involved in slowly adapting type I mechanoreceptor responses?, *Neuroscience*, 133:763-773.

Hitchcock, I., Genever, P. & Cahusac, P.M.B. (2004) Essential components for a glutamatergic synapse between Merkel cell and nerve terminal, *Neuroscience Letters*, 362:196-199.

Cahusac, P.M.B. (2003) Are glutamate receptors involved in transmission at the Merkel cell-neurite junction? In: *The Merkel cell – structure – development – function – and Merkel cell carcinoma*, Klaus I. Baumann, Zdenek Halata and Ingrid Moll (eds), Springer-Verlag.

Senok, S.S., Genever, P.G., Cahusac, P.M.B. & Baumann, K.I.(2003) Glutamate receptor-like immunoreactivity in rat vibrissal Merkel cells, In: *The Merkel cell – structure – development – function – and Merkel cell carcinoma*, Klaus I. Baumann, Zdenek Halata and Ingrid Moll (eds), Springer-Verlag.

Cahusac, P.M.B. (2002) *The Perception of Touch*, In: *Signals and Perception: the Fundamentals of Human Sensation*, edited by D. Roberts, Palgrave, The Open University, pp245-254.

Fagan, B.M. & Cahusac, P.M.B. (2001) Evidence for glutamate receptor mediated transmission at mechanoreceptors in the skin, *NeuroReport*, 12: 341-347.

#### **Teaching:**

##### **Alfaisal University, Riyadh, KSA (since 2012)**

- Pharmacology, Faculty Advisor for student project, statistical advisor

##### **University of Stirling, UK (1990-2012)**

- Chief Examiner and Exams Officer
- Contributor to PSY9A4 Brain & Behaviour: clinical perspectives
- Coordinator for PSY914 Research Methods
- Supervisor for PhD, Master and Undergraduate students

##### **Oxford University, UK (1987-1989)**

- College tutor in statistics