

Curriculum Vitae: Graeme Bruce Martin

Etat civil

MARTIN, Graeme
Né le 18 Décembre, 1951

Situation à l'Academie

Elu correspondant en 2019
Section III, Production animale
Groupe de travail: être décidé
Fonction exercée: être décidé

Titre: Professeur, Science animale

Coordonnées

Professionnelles: L'Université de Australie Occidentale
Adresse principale: Stirling Highway, Crawley, Western Australia 6009
Region de rattachement: Australie Occidentale
Numero portable: +61 408951052
Address email: Graeme.Martin@uwa.edu.au

Formations

1975: Diplômé en Sciences Agronomiques (Mention I) de l'Université de Western Australia
1981: Doctorat en endocrinologie de la reproduction ovine

Carrière

1981-82 Chercheur, Station de Physiologie de la Reproduction de l'INRA à Nouzilly)
1983-1986 Chercheur, l'Unité de Biologie de la Reproduction du Conseil de Recherches Médicales à Édimbourg (Royaume-Uni).
1986-1994 Chercheur (poste conjoint), à l'Université de WA et au CSIRO
1994– Professeur, agriculture, science animale, communication de science
2001– Professeur ('chair')

Domains d'Expertise

Reproduction animale
Endocrinologie
Systèmes de production animale
L'avenir de la nourriture
Communication de la science

Mots clés

Reproduction animale
Endocrinologie de reproduction
Neuroendocrinologie
Comportement sexuel
Nutrition et reproduction
Saisonnalité de la reproduction

Distinctions et prix éventuels

- 1991 Moir Medal, Australian Society for Animal Production
2009 Landcorp Lecture, New Zealand Society of Animal Production
2010 Listed in The Inaugural Australian Sheep and Lamb Industry Roll of Honour
2016 ‘Sex in 3 Cities’ – Invited public lecture series (Edinburgh, Nottingham, London; Society for Reproduction & Fertility) <http://srf-reproduction.org/events/sex-in-three-cities-events/>
2017 Science Council of Japan – Asian Association of Science Societies and Academies Workshop: Role of Science for Inclusive Society (Tokyo)
2017 Keynote speaker: European Association of Animal Production
2018 Invited speaker: Golden Jubilee Symposium; Society for Reproductive Biology (Adelaide)

Activités académiques ou professionnelles

Directeur des Sciences Animales de l'UWA
Doyen de la Faculté des Sciences Naturelles et Agricoles de l'UWA
Doyen de l'UWA Graduate Research School
Président du Conseil Académique (le comité académique de pointe de l'Université) de l'UWA
Directeur de l'Ecole de Biologie Animale de l'UWA
Directeur Adjoint de l'Institut d'Agriculture de l'UWA

Publications sélectionnées

- Martin, G.B.** (2014). An Australasian perspective on the role of reproductive technologies in world food production. *Advances in Experimental Medicine and Biology* **752**, 181-197.
- Martin, G.B.**, Durmic, Z., Kenyon, P.R. & Vercoe, P.E. (2009). Landcorp Farming Limited Lecture: ‘Clean, green and ethical’ animal reproduction: extension to sheep and dairy systems in New Zealand. *Proceedings of the New Zealand Society of Animal Production* **69**, 140-147.
- Eisler, M.C., Lee, M.R.F., Tarlton, J.F., **Martin, G.B.**, Beddington, J., Dungait, J.A.J., Greathead, H., Liu, J., Mathew, S., Miller, H., Misselbrook, T., Murray, P., Vinod, V.K., van Saun, R. & Winter, M. (2014). Steps to sustainable livestock. *Nature* (London) **507**, 32-34.
- Guan, Y. & **Martin, G.B.** (2017). Cellular and molecular responses of adult testis to changes in nutrition – novel insights from the sheep model. *Reproduction* **154**, R133-R141.
- Delgadoillo, J.A. & **Martin G.B.** (2015). *Invited review*: Alternative methods for control of reproduction in small ruminants – a focus on the needs of grazing animal industries. *Animal Frontiers* **5**, 57-65.
- Hawken, P.A.R., Jorre de St Jorre, T., Rodger, J., Esmaili, T., Blache, D. & **Martin, G.B.** (2009). Rapid induction of cell proliferation in the adult female ungulate brain associated with activation of the reproductive axis by exposure to unfamiliar males. *Biology of Reproduction* **80**, 1146-1151.

- Martin, G.B.**, Milton, J.T.B., Davidson, R.H., Banchero Hunzicker, G.E., Lindsay, D.R. & Blache, D. (2004). Natural methods of increasing reproductive efficiency in sheep and goats. *Animal Reproduction Science* **82-83**, 231-246.
- Thiéry, J-C. & **Martin, G.B.** (1991). Neurophysiological control of the secretion of gonadotrophin-releasing hormone and luteinising hormone in the sheep – a review. *Reproduction, Fertility and Development* **3**, 137-173.
- Ferasyi, T.R., Barrett, P.H.R., Blache, D. & **Martin, G.B.** (2016). Modeling the male reproductive endocrine axis: potential role for a delay mechanism in the inhibitory action of gonadal steroids in the regulation of GnRH pulse frequency. *Endocrinology* **157**, 2080-2092.

Activités editoriales

Reproduction, Fertility & Development

Editeur-en-Chef (1 August 2015 –)

Membre, Joint Board of Standards, CSIRO-Australian Academy of Science (2015-2018)

Chair, Comité de Rédaction (2000-2006)

Membre, Joint Board of Standards, CSIRO-Australian Academy of Science (2000-2006)

Membre du Comité de Rédaction (1998-2000)

Reproduction (UK): Membre du Comité de Rédaction

Animal Reproduction Science: Membre du Comité de Rédaction

Domestic Animal Endocrinology: Membre du Comité de Rédaction

Reproduction in Domestic Animals: Membre du Comité de Rédaction

Short Bio (anglais)

Dr Martin's research covers basic and applied science, mostly on reproductive physiology in sheep, with a strong focus on how environmental factors influence the reproductive system, particularly the brain mechanisms that are involved. Graeme's long-term goal is to use this research to develop clean, green and ethical systems of animal production. From 1990 until 2014, he also led a project on ratites (emu, ostrich) and game birds, with a strong emphasis on reproductive biology and reproductive technology that was designed to support the development of new industries.

His laboratory uses the latest techniques in neuroscience, histology, endocrinology, metabolic physiology, behaviour, reproductive technology, and molecular biology, and computer modeling. He has collaborated with many institutions, locally, nationally and internationally, with international collaborators including: the Institut Nationale de la Recherche Agronomique (France), the Roslin Institute (United Kingdom), the Royal Veterinary College (London), Universidad Nacional Autónoma de México, the Universidad de la Republica Oriental del Uruguay, The University of Yamaguchi (Japan), The University of Oxford, and The University of Bristol.

He currently leads *UWA Future Farm 2050* (www.ioa.uwa.edu.au/research/future-farm), a major multidisciplinary project that is transforming the University farm. The farm is not a traditional research station. Instead, it is a research project in its own right with its own vision: *imagine the best-practice farm for 2050, and start the transformation now*. The year 2050 was chosen because, by then, agriculture will have to help feed 50% more people without destroying the planet.