

Xavier d'Anglemont de Tassigny



GENERAL INFORMATIONS

Date of Birth: 14th of January 1980
Place of Birth: Paris, France

Current Position: **Postdoctoral Research Associate**

Current working address: Instituto de Biomedicina de Sevilla (IBiS), Campus del Hospital Universitario Virgen del Rocío, Avda. Manuel Siurot s/nº, 41013 Sevilla, Spain

Telephone: +34 955 923 032
Mobile: +34 695 075 908
Fax: +34 955 923 101
Email: xavier-ibis@us.es

WORK EXPERIENCE

Jan 2012 to present **Postdoctoral Research Associate** at Instituto de Biomedicina de Sevilla

Sept 2005 Dec 2011 **Postdoctoral Research Associate** at the University of Cambridge

1996 to 2001 (Summers) Employed in a garden maintenance company (Juvigny Espaces Verts SARL, Vitry-les-Reims, France)

August 1998 Employed in a packaging factory in Reims, France

EDUCATION

31st Oct 2005 **PhD in Neurosciences** (with Honours) at the University of Lille 2 and the Unit 422 (currently Unit 837) of the INSERM (National Institute for Health and Medical Research) in Lille, France. PhD project supervised by Dr. Vincent Prévot "*Regulation of the neuronal Nitric Oxide Synthase (nNOS) in the hypothalamic preoptic region during the oestrus cycle: role in the neuroendocrine control of the reproductive function*"

June 2001 **Master in Cell Biology and Animal Physiology**, Faculty of Natural Science University of Reims Champagne-Ardennes, France

June 2000 **Licence in Cell Biology and Animal Physiology**, Faculty of Natural Science University of Reims Champagne-Ardennes, France

June 1999 **DEUG (2nd year degree) in Biology / Biochemistry**, Faculty of Natural Science University of Reims Champagne-Ardennes, France

June 1997 **Baccalauréat Scientifique (End of High School Degree)**, Faculty of Natural Science University of Reims Champagne-Ardennes, France

TECHNICAL COMPETENCES

- Biochemistry (Western blot, immunoprecipitations)
- Immunocytochemistry (DAB, fluorescence, fresh floating or frozen sections)
- Histology (paraffin inclusion, hematoxylin-eosin)
- In vitro culture (primary cells, neuronal cells, neurospheres, stem cells)
- Animal surgery (Rodents: orchidectomy, ovariectomy, embryo transfer, ovary transplantation, intracranial injections, osmotic pump insertion)
- Hormone assays (ELISA, RIA)
- Microscopy (fluorescence, confocal, epifluorescence)
- Molecular Biology (RT-PCR, quantitative PCR)

TEACHING EXPERIENCE

- 2010-2011* Demonstrator in Histology for first year Medical and Veterinary students, School of Biological Sciences, University of Cambridge
- First trimester 2010* Demonstrator in Reproduction Male and Female practical classes for first and second year Natural Science, Medical and Veterinary students, School of Biological Sciences, University of Cambridge
- 2008-2010* Supervising third year student's projects in Natural Science from the School of Biological Sciences, University of Cambridge:
- Karen J. Ackroyd, two terms project: Effect of N-Methyl-D-Aspartate on Kisspeptin neuron activation
- Chris W. Benson, one term project: Investigating the existence of a second receptor for kisspeptins in the mouse brain
- November 2004* 2 hours Lecture in fifth year Neuroscience students, university of Lille 2: Non-neuronal cells and neuronal physiopathologies
- April 2004* Supervising fourth year student, Thérèse Endegue-Bilongo, from University of Artois, France: Studying the interaction of nNOS with the NMDA receptor and neuregulin receptor ErbB4 in the rat hippocampus

FUNDING

- Sept 2011* Eligible for the '*Ramon y Cajal*' 5 years fellowship from the Spanish Ministry of Science and Technology
- Sept 2008 to Aug 2011* Salary from a BBSRC (Biotechnology and Biological Sciences Research Council) grant obtained by Prof. WH Colledge
- Sept 2005 to Aug 2008* Salary from a BBSRC grant obtained by Prof. WH Colledge
- Nov 2002 to Oct 2005* PhD scholarship from the INSERM (National Institute for Health and Medical Research) and the Nord-Pas-de-Calais Regional Council

PUBLICATIONS

From Postdoctoral studies:

Hanchate NK, Parkash J, Bellefontaine N, Mazur D, Colledge WH, d'Anglemont de Tassigny X, Prevot V. **2012** Kisspeptin-GPR54 signaling in mouse NO-synthesizing neurons participates in the hypothalamic control of ovulation. **J Neurosci** 2012 32(3):932-45.

Maguire JJ, Kirby HR, Mead EJ, Kuc RE, d'Anglemont de Tassigny X, Colledge WH, Davenport AP. **2011** Inotropic action of the puberty hormone kisspeptin in rat, mouse and human: cardiovascular distribution and characteristics of the kisspeptin receptor. **PLoS One** 6(11):e27601.

Yap DB, Walker DC, Prentice LM, McKinney S, Turashvili G, Mooslehner-Allen K, de Algora TR, Fee J, de Tassigny X, Colledge WH, Aparicio S. **2011** Mll5 is required for normal spermatogenesis. **PLoS One** 2011;6(11):e27127

Porteous R, Petersen SL, Yeo SH, Bhattarai JP, Ciofi P, de Tassigny XD, Colledge WH, Caraty A, Herbison AE. **2011** Kisspeptin neurons co-express met-enkephalin and galanin in the rostral periventricular region of the female mouse hypothalamus. **J Comp Neurol** 1;519(17):3456-69.

Prentice LM*, d'Anglemont de Tassigny X*, McKinney S, Ruiz de Algora T, Yap D, Turashvili G, Poon S, Sutcliffe M, Allard P, Burleigh A, Fee J, Huntsman DG, Colledge WH, Aparicio SA. **2011** The testosterone-dependent and independent transcriptional networks in the hypothalamus of Gpr54 and Kiss1 knockout male mice are not fully equivalent. **BMC Genomics** 12(1):209. (**equal contributors*)

Liu X, Porteous R, d'Anglemont de Tassigny X, Colledge WH, Millar R, Petersen SL, Herbison AE. **2011** Frequency-dependent recruitment of fast amino acid and slow neuropeptide neurotransmitter release controls gonadotropin-releasing hormone neuron excitability. **J Neurosci** 31(7):2421-30.

d'Anglemont de Tassigny X#, Ackroyd KJ, Chatzidaki EE, Colledge WH. **2010** Kisspeptin signaling is required for peripheral but not central stimulation of GnRH neurons by NMDA. **J Neurosci** 30(25):8581-90. (*# corresponding author*)

d'Anglemont de Tassigny X, Colledge WH. **2010** The role of kisspeptin signalling in reproduction. **Physiology** (Bethesda) 25(4):207-17.

Colledge WH, Mei H, d'Anglemont de Tassigny X. **2010** Mouse models to study the central regulation of puberty. **Mol Cell Endocrinol** 71(3):198-200.

Herbison AE, d'Anglemont de Tassigny X, Doran J, Colledge WH. **2010** Distribution and postnatal development of Gpr54 gene expression in mouse brain and gonadotropin-releasing hormone neurons. **Endocrinology** 151(1):312-21.

Clarkson J, d'Anglemont de Tassigny X, Colledge WH, Caraty A, Herbison AE. **2009** Distribution of kisspeptin neurones in the adult female mouse brain. **J Neuroendocrinol** 21(8):673-82.

Clarkson J, d'Anglemont de Tassigny X, Moreno AS, Colledge WH, Herbison AE. **2008** Kisspeptin-GPR54 signaling is essential for preovulatory gonadotropin-releasing hormone neuron activation and the luteinizing hormone surge. **J Neurosci** 28(35):8691-7

d'Anglemont de Tassigny X, Fagg LA, Carlton MB, Colledge WH. **2008** Kisspeptin can stimulate gonadotropin-releasing hormone (GnRH) release by a direct action at GnRH nerve terminals. **Endocrinology** 149(8):3926-32.

d'Anglemont de Tassigny X, Fagg LA, Dixon JP, Day K, Leitch HG, Hendrick AG, Zahn D, Franceschini I, Caraty A, Carlton MB, Aparicio SA, Colledge WH. **2007** Hypogonadotropic hypogonadism in mice lacking a functional Kiss1 gene. **Proc Natl Acad Sci U S A** 104(25):10714-9.

From PhD studies:

Bellefontaine N, Hanchate NK, Parkash J, Campagne C, de Seranno S, Clasadonte J, d'Anglemont de Tassigny X, Prevot V. **2011** Nitric oxide as key mediator of neuron-to-neuron and endothelia-to-glia communication involved in the neuroendocrine control of reproduction. **Neuroendocrinology** 93(2):74-89.

Prevot V, Hanchate NK, Bellefontaine N, Sharif A, Parkash J, Estrella C, Allet C, de Seranno S, Campagne C, d'Anglemont de Tassigny X, Baroncini M. **2010** Function-related structural plasticity of the GnRH system A role for neuronal-glia-endothelial interactions. **Front Neuroendocrinol** 31(3):241-58.

Parkash J, d'Anglemont de Tassigny X, Bellefontaine N, Campagne C, Mazure D, Buée-Scherrer D, Prevot V. **2010** Phosphorylation of N-methyl-D-aspartic acid receptor-associated neuronal nitric oxide synthase depends on estrogens and modulates hypothalamic nitric oxide production during the ovarian cycle. **Endocrinology** 151(6):2723-35.

de Seranno S, d'Anglemont de Tassigny X, Estrella C, Loyens A, Kasparov S, Leroy D, Ojeda SR, Beauvillain JC, Prevot V. **2010** Role of Estradiol in the Dynamic Control of Tanycyte Plasticity Mediated by Vascular Endothelial Cells in the Median Eminence. **Endocrinology** 151(4):1760-72.

d'Anglemont de Tassigny X, Campagne C, Steculorum S, Prevot V. **2009** Estradiol induces physical association of neuronal nitric oxide synthase with NMDA receptor and promotes nitric oxide formation via estrogen receptor activation in primary neuronal cultures. **J Neurochem**. 109(1):214-24.

d'Anglemont de Tassigny X, Campagne C, Dehouck B, Leroy D, Holstein GR, Beauvillain JC, Buée-Scherrer V, Prevot V. **2007** Coupling of neuronal nitric oxide synthase to NMDA receptors via postsynaptic density-95 depends on estrogen and contributes to the central control of adult female reproduction. **J Neurosci**. 27(23):6103-14.

INVITED COMMUNICATIONS

d'Anglemont de Tassigny X, Ackroyd KJ, Chatzidaki EE and Colledge WH. Interrelationship of N-methyl-D-aspartic receptor and kisspeptin signaling pathways in the control of GnRH neuronal activation. **Society for Neuroscience Annual Meeting**, Chicago (USA), Oct 2009.

d'Anglemont de Tassigny X, Chatzidaki EE, and Colledge WH. Kisspeptin-GPR54 signaling is essential for NMDA-induced luteinizing hormone release in the mouse. **First World Conference in Kisspeptin Signaling in the Brain**, Cordoba (Espagne), Oct 2008.

d'Anglemont de Tassigny X. Hypogonadotropic hypogonadism in mice lacking a functional Kiss1 gene. **Journée du Club Français de l'Hypophyse**, Paris, Dec 2007.

PRIZES AND AWARDS

Servier Prize for Young Neuroendocrinologist (2008) (1000 euros)
35th French Neuroendocrinology Society Annual Meeting. Strasbourg, Sept 2008.

Best Oral Communication Prize (2005)

d'Anglemont de Tassigny X, Beauvillain JC, Prévot V. Estrogen-promoted NR2B/PSD95/nNOS ternary complex formation in neurons of the preoptic region of the hypothalamus contributes to the central control of adult female reproductive cycle. BSN-SNE Annual Meeting, Oxford (UK)

Best Poster Communication Prize (2005)

d'Anglemont de Tassigny X, Beauvillain JC, Prévot V. Estrogen stimulates coupling of neuronal nitric oxide synthase (nNOS) to NMDA receptor by PSD95 protein in neurons of the preoptic region of the hypothalamus in the adult rat. French Society for Neuroscience 7th Meeting, Lille, 2005.

SCIENTIFIC SOCIETIES MEMBERSHIP

The Endocrine Society, USA
Société de Neuroendocrinologie (SNE), France
The Society for Neuroscience, USA
The Physiological Society, UK