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Research output

Move over testosterone, another hormone is also vital for making boys – and it doesn't come from the testes

Fowler, P. A. F., 14 Feb 2019, The Conversation.

Comment on “Effects of Arsenite during Fetal Development on Energy Metabolism and Susceptibility to Diet-Induced Fatty Liver Diseases in Male Mice” and “Mechanisms Underlying Latent Disease Risk Associated with Early-Life Arsenic Exposure: Current Trends and Scientific Gaps”

Fowler, P. A., Drake, A. J., O'Shaughnessy, P. J., Bhattacharya, S., Raab, A., Sinclair, K. D., Feldmann, J. & Meharg, A. A., 1 Jun 2016, In: Environmental Health Perspectives. 124, 6, p. A99-A99 1 p.

Human anogenital distance: an update on fetal smoke-exposure and integration of the perinatal literature on sex differences

Fowler, P. A., Filis, P., Bhattacharya, S., Le Bizec, B., Antignac, J.-P., Morvan, M.-L., Drake, A. J., Soffientini, U. & O'Shaughnessy, P. J., Feb 2016, In: Human Reproduction. 31, 2, p. 463-472 10 p.

In utero exposure to cigarette smoke dysregulates human fetal ovarian developmental signalling

Fowler, P. A. (Corresponding Author), Childs, A. J., Courant, F., MacKenzie, A., Rhind, S. M., Antignac, J.-P., Le Bizec, B., Filis, P., Evans, F., Flannigan, S., Maheshwari, A., Bhattacharya, S., Monteiro, A., Anderson, R. A. & O'Shaughnessy, P. J., Jul 2014, In: Human Reproduction. 29, 7, p. 1471-1489 19 p.

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Fowler, P. A., Bellingham, M., Sinclair, K. D., Evans, N. P., Pocar, P., Fischer, B., Schaedlich, K., Schmidt, S.-J., Amezaga, M. R., Bhattacharya, S., Rhind, S. M. & O'Shaughnessy, P. J., May 2012, In: Molecular and Cellular Endocrinology. 355, 2, p. 231-239 9 p.

Maternal cigarette smoking and effects on androgen action in male offspring: unexpected effects on second-trimester anogenital distance

Fowler, P. A., Bhattacharya, S., Flannigan, S., Drake, A. J. & O'Shaughnessy, P. J., 1 Sept 2011, In: Journal of Clinical Endocrinology and Metabolism. 96, 9, p. E1502-E1506 5 p.

Maternal smoking and developmental changes in luteinizing hormone (LH) and the LH receptor in the fetal testis

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Gene expression analysis of human fetal ovarian primordial follicle formation

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PAH Exposure

Fowler, P. A., O'Shaughnessy, P. J., Rhind, S. M. & Ayres, J., Apr 2009, In: Environmental Health Perspectives. 117, 4, p. A140; author reply A140-1 1 p.

In utero exposure to low doses of environmental pollutants disrupts fetal ovarian development in sheep

Fowler, P. A. (Corresponding Author), Dorà, N. J., McFerran, H., Amezaga, M. R., Miller, D. W., Lea, R. G., Cash, P., McNeilly, A. S., Evans, N. P., Cotinot, C., Sharpe, R. M. & Rhind, S. M., May 2008, In: *Molecular Human Reproduction*. 14, 5, p. 269-280 12 p.

Maternal smoking during pregnancy specifically reduces human fetal desert hedgehog gene expression during testis development

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Human fetal testis Leydig cell disruption by exposure to the pesticide dieldrin at low concentrations

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Maternal dietary exposure to environmental chemicals disturbs fetal ovary development

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An investigation of the effects of endometriosis on the proteome of human eutopic endometrium: A heterogeneous tissue with a complex disease

Fowler, P. A. F., Tattum, J., Bhattacharya, S., Klonisch, T., Hombach-Klonisch, S., Gazvani, R., Lea, R. G., Miller, I. D., Simpson, W. & Cash, P., Jan 2007, In: *Proteomics*. 7, 1, p. 130-142 13 p.

The cultured rodent follicle as a model for investigations of gonadotrophin surge-attenuating factor (GnSAF) production

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Ovarian gonadotrophin surge-attenuating factor (GnSAF): where are we after 20 years of research?

Fowler, P. A. F., Sorsa-Leslie, T. K., Harris, W. J. & Mason, H. D., 2003, In: *Reproduction*. 126, 6, p. 689-699 10 p.

The ovarian gonadotropin receptors in health and disease

Fowler, P. A. F. & Huhtaniemi, I. T., Jan 2002, In: *Reviews in Endocrine and Metabolic Disorders*. 3, 1, p. 55-63 9 p.

A 60-66 kDa protein with gonadotrophin surge attenuating factor bioactivity is produced by human ovarian granulosa cells

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Relationship between follicle size and gonadotrophin surge attenuating factor (GnSAF) bioactivity during spontaneous cycles in women

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A longitudinal study of maternal serum inhibin-A inhibin-B, activin-A activin-AB, pro- α C and follistatin during pregnancy
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Maternal pituitary gonadotroph function in relation to GnRH receptor and LH beta mRNA content during pregnancy in ewes
Fowler, P. A. F. & McNeilly, A. S., Jul 1997, In: Journal of Reproduction and Fertility. 110, 2, p. 267-278 12 p.

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Circulating Gonadotropin Surge-Attenuating Factor From Superovulated Women Suppressing In-Vitro Gonadotropin-Releasing-Hormone Self-Priming
Fowler, P. A. F., CUNNINGHAM, P., Fraser, M., MACGREGOR, F., BYRNE, B., PAPPAS, A., MESSINIS, I. E. & Templeton, A., Oct 1994, In: Journal of Endocrinology. 143, 1, p. 45-54 10 p.

Higher gonadotrophin surge-attenuating factor bioactivity is found in small follicles from superovulated women
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Higher Gonadotropin Surge-Attenuating Factor Bioactivity is Found in Small Follicles from Superovulated Women
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The Ovarian Modulation of Gonadotropin-Releasing Hormone-Induced Luteinizing-Hormone Secretion in Women
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The ovarian modulation of gonadotrophin releasing hormone-induced luteinizing hormone secretion in women

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Validation of in vivo measurement of adipose tissue by magnetic resonance imaging of lean and obese pigs

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Fowler, P. A. F. & Templeton, A., Aug 1991, In: Clinical Endocrinology. 35, 2, p. 117-118 2 p.

Total and Subcutaneous Adipose-Tissue in Women: the measurement of distribution and accurate prediction of quantity by using magnetic resonance imaging

Fowler, P., Fuller, M. F., Glasbey, C. A., Foster, M. A., Cameron, G. G., McNeill, G. & Maughan, R. J., 1 Jul 1991, In: The American Journal of Clinical Nutrition. 54, 1, p. 18-25 8 p.

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Omitting the dry period between lactations does not reduce subsequent milk production in goats

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Inhibition of LHRH-induced LH and FSH release by Gonadotropin Surge-Attenuating Factor(GNSAF) from Human Follicular-Fluid

Fowler, P. A. F., MESSINIS, I. E. & Templeton, A., Nov 1990, In: Journal of Reproduction and Fertility. 90, 2, p. 587-594 8 p.

Daily and seasonal cycles of body temperature and aspects of heterothermy in the hedgehog *Erinaceus europaeus*

Fowler, P. A. & Racey, P. A., 1 Aug 1990, In: Journal of Comparative Physiology B. 160, 3, p. 299-307 9 p.

Cyclic Changes in Composition and Volume of the Breast During the Menstrual-Cycle, Measured by Magnetic-Resonance-Imaging

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Use of magnetic resonance imaging in the study of goat mammary glands in vivo

Fowler, P., Knight, C., Cameron, G. G. & Foster, M. A., 1 Jun 1990, In: Journal of Reproduction and Fertility. 89, 8 p.

In vivo Studies of Mammary Development in the Goat Using Magnetic-Resonance-Imaging (MRI)

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Use of Magnetic-Resonance-Imaging in the Study of Goat Mammary-Glands In vivo

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Inhibition of LHRH-induced LH and FSH release by gonadotrophin surge-attenuating factor (GnSAF) from human follicular fluid

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In-vivo studies of mammary development in the goat using magnetic resonance imaging (MRI)

Fowler, P. A., Knight, C. H., Cameron, G. G. & Foster, M. A., 1 Jan 1990, In: Journal of Reproduction and Fertility. 89, 1, p. 367-375 9 p.

Daily and Seasonal Cycles of Body-Temperature and Aspects of Heterothermy in the Hedgehog Erinaceus-Europaeus

Fowler, P. A. F. & Racey, P., 1990, In: Journal of Comparative Physiology. B, Biochemical, Systemic, and Environmental Physiology. 160, 3, p. 299-307 9 p.

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Effect of Melatonin Administration and Long Day-Length on Endocrine Cycles in the Hedgehog Erinaceus-Europaeus

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Seasonal Endocrine Cycles in the European Hedgehog, Erinaceus-Europaeus

Fowler, P. A. F., Sept 1988, In: Journal of Reproduction and Fertility. 84, 1, p. 259-272 14 p.

Overwintering Strategies of the Badger, Meles-Meles, at 57-Degrees-N

Fowler, P. A. F. & Racey, P., Apr 1988, In: Journal of Zoology. 214, 4, p. 635-651 17 p.

Thermoregulation in the Female Hedgehog, Erinaceus-Europaeus, During the Breeding-Season

Fowler, P. A. F., Jan 1988, In: Journal of Reproduction and Fertility. 82, 1, p. 285-292 8 p.

Relationship between body and testis temperatures in the European Hedgehog, Erinaceus-Europaeus, during hibernation and sexual reactivation

Fowler, P. A. F. & Racey, P., Nov 1987, In: Journal of Reproduction and Fertility. 81, 2, p. 567-573 7 p.

Projects

Mechanisms via which the human fetus is at risk from over-the-counter analgesics

Fowler, P. A. F. (Academic Supervisor) & Zafeiri, A. (Student)

1/10/17 → 31/12/21

THE HUMAN FETAL LIVER: DEVELOPMENTAL GENETICS AND RESPONSE TO MATERNAL DRUG USE

Fowler, P. A. F. (Principal Investigator) & Douglas, A. (Co-Investigator)

1/04/14 → 31/10/17

Activities

Scientific Opinion on the risks to public health related to the presence of bisphenol A (BPA) in foodstuffs

Fowler, P. A. F. (Participant)

2015