CURRICULUM VITAE

April 2018

Title and name
Professor Paul, Alfred, Francois, Fowler

Nationality
British

Panel / Scientific Committee
Panel on Food Additives and Flavourings (FAF)

Education

PhD in Reproductive Biology, 1986, University of Aberdeen, UK
Bachelor of Science, Honours, in Zoology, 1982, University of Aberdeen, UK

Work Experience

2015 – present	University of Aberdeen	Director of the Institute of Medical Sciences, To manage and direct the Institute of Medical Sciences, including research and funding strategy. The institute comprises over 400 staff and research students with an annual external research income of over 15 million.
2008 – present	University of Aberdeen	Professor in Translational Medical Sciences, To lead and conduct research, income generation, teaching and other relevant duties at an internationally recognised professorial level.
1997 – 2008	University of Aberdeen	Lecturer and Senior Lecturer, To lead and conduct research, income generation, teaching and other relevant duties at the level of an independent academic scientist.
1989 – 1997	University of Aberdeen	Post-doctoral research scientist and Senior Post-doctoral research scientist, To lead (as senior research fellow) and conduct research, income generation and other relevant duties at the level of a scientist working as part of a team.
1985 – 1989	University of Aberdeen	Post-doctoral research assistant, To conduct research and other relevant duties at the level of a scientist working as part of a team.

Scientific expertise

Molecular biology

Paediatrics
Endocrinology
Mechanism of Toxicity
Developmental and Reproductive Toxicity
Animal physiology
Cumulative exposure assessment

Most relevant scientific publications within the fields of EFSA

Author of more than 130 peer-reviewed papers since 1987. Main areas of research include prenatal development and adverse chemical effects toxicology especially in human pregnancy.
For a full list of publications please visit https://orcid.org/0000-0002-4831-9075.

15 selected recent relevant publications:

Swortwood M.J., Himes S.K., Scheidweiler K.B., Shaw S.C., Filis P., Douglas A., Soffientini U., Lucendo-Villarin B., O'Shaughnessy P.J., Iredale P.P., Hay D.C., **Fowler P.A.** & Huestis M.A, 2018. Quantification of ethyl glucuronide, ethyl sulphate and nicotine metabolites in human fetal liver and placenta. *Forensic Toxicol.* **36:102** https://doi.org/10.1007/s11419-017-0389-2.

Tweed S., Bhattacharya S. & Fowler P.A., 2017. Effects of maternal smoking on offspring reproductive health: an intergenerational study in North East Scotland. *Human Reprod. Open;* 2017(2): hox006 pp. 1-7. https://doi.org/10.1093/hropen/hox006

Lucendo-Villarin B., Filis P., Swortwood M.J., Huestis M.A., Meseguer-Ripolles J., Cameron K., Iredale J.P., O'Shaughnessy P.J., **Fowler P.A.** & Hay D.C, 2017. Modelling fetal exposure to smoking using hepatoblasts from pluripotent stem cells. *Arch. Toxicol.*; **91,** 3633-3634**.** doi: 10.1007/s00204-017-1983-0

Hunt P.A., Sathyanarayana S., **Fowler P.A.** & Trasande L, 2016. Female reproductive disorders, diseases and costs of exposure to endocrine disrupting chemicals in the European Union. *J. Clin. Endocrinol. Metab*.;**101,** 1562-1570. doi: 10.1210/jc.2015-2873.

Lea R.G., Amezaga M.R., Mandon-Pepin B., Loup B., Mandon-Pepin B., Fraser M., Stefansdottir A., Filis, P., Kyle C., Kerr C., Osprey M., Zang Z., Allen C., Purdie L., Jouneau L., Sinclair K.D., Cotinot C., Rhind S.M. & **Fowler P.A.**, 2016. The fetal ovary temporal sensitivity to a "real-life" mixture of environmental chemicals. *Scientific Reports.* **2**;6:22279. doi:10.1038/srep22279

Filis P., Nagrath N., Fraser M., Hay D.C., Iredale J.P., O'Shaughnessy P.J. & **Fowler P.A.,** 2015. Maternal smoking dysregulates protein expression in second trimester human fetal livers. *J. Clin. Endocrinol. Metab*. **100,** E861-E870. doi: 10.1210/jc.2014-3941

Drake A.J., O'Shaughnessy P.J., Kerrigan D., Bhattacharya S, Sinclair K.D., Monteiro A., Goetz S., Raab A., Rhind S.M., Meharg A. & Feldmann J. & **Fowler P.A.**, 2015. In-utero exposure to cigarette chemicals induces gender-specific fetal epigenetic modifications and disruption of one-carbon metabolism. *BMC Medicine* **13:18**. doi: 10.1186/s12916-014-0251-x

Fowler P.A., 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., 2014. In-utero exposure to cigarette smoke chemicals dysregulates fetal ovarian developmental signalling. *Human Reprod.* **29,** 1471-1489. DOI: 10.1093/humrep/deu117

Krogenæs A.K., Ropstad E., Gutleb A.C., Hårdnes N., Berg V., Ellen Dahla, **Fowler P.A.**, 2014. In-utero exposure to environmentally relevant concentrations of PCB 153 and PCB 118 disrupts fetal testis development in sheep. *J. Toxicol. Environ. Hlth. Part A* **77,** 628-649. doi: 10.1080/15287394.2014.887426

Anderson R.A., McIlwain L., Coutts S., Kinnell H.L., **Fowler P.A**., Childs A.J. (2014) Activation of the aryl hydrocarbon receptor by a component of cigarette smoke reduces germ cell proliferation in the human fetal ovary. *Mol. Hum. Reprod*. **20,** 42-48. doi: 10.1093/molehr/gat059

Hombach-Klonisch S., Danescu A., Begum F., Amezaga M.R., Rhind S.M., Sharpe R.M, Evans N.P., Bellingham M., Cotinot C., Mandon-Pepin B., **Fowler P.A.** and Klonisch T, 2013. Periconceptional changes in maternal exposure to sewage sludge chemicals disturbs fetal thyroid gland development in sheep. *Mol. Cell. Endocrinol*. **367,** 98-108. doi: 10.1016/j.mce.2012.12.022

O'Shaughnessy P.J., Monteiro A., Bhattacharya S. & **Fowler P.A.**, 2013. Steroidogenic enzyme expression in the human fetal liver and potential role in the endocrinology of pregnancy. *Molecular Human Reproduction* **19,** 177-187. doi: 10.1093/molehr/gas059

Bellingham M., McKinnell C., **Fowler P.A.**, Amezaga M.R., Zhang Z., Rhind S.M., Cotinot C., Mandon-Pépin B., Evans N.P. & Sharpe R.M, 2012. Fetal and post-natal exposure to sewage sludge chemicals disrupts sperm production in adulthood in a subset of animals. *Int. J. Androl*. **35,** 317-329. doi: 10.1111/j.1365-2605.2011.01234.x

O'Shaughnessy P.J., Monteiro A., Bhattacharya S. & **Fowler P.A.**, 2011. Maternal smoking and fetal sex affect metabolic enzyme expression in the human fetal liver. *J. Clin. Endocrinol. Metab.* **96,** 2851-2860. doi: 10.1210/jc.2011-1437

Rhind S.M., Kyle C. E., Mackie C., MacDonald L., Duff E.I., Bellingham M., Amezaga M.R., Mandon-Pepin B., Cotinot C., Evans N.P., Sharpe R.M., **Fowler P.A.**, 2010. Maternal and fetal tissue accumulation of endocrine disrupting compounds (EDC) following exposure to sewage sludge-treated pastures before and after conception. *J. Environ. Monit.* **12,** 1582-1593. doi: 10.1039/c0em00009d