

# BIOGRAPHY

1st May 2011



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**Title and name**

Dr Matthew Wright

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**Nationality**

British

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**Panel**

Scientific Panel on Food Additives and Nutrient Sources (ANS)

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**Education**

BSc (Hons) Applied Biochemistry, 1989, Brunel University

PhD Biochemistry, 1994, University of London

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**Scientific and risk assessment experience**

Main fields of experience involve research related to:

Xenobiotic metabolism.

Mechanisms of cell injury.

Responses of liver to chronic liver injury.

In vitro methodologies to screen for toxicity.

Use of stem and progenitor cells to generate liver cells for toxicology studies.

Adverse effects associated with nuclear receptor activation by hormones and xenohormones

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**Main scientific publications**

Wallace K, Fairhall EA, Charlton KA, Wright MC. 2010. AR42J-B-13 cell : an expandable progenitor to generate an unlimited supply of functional hepatocytes. *Toxicology* 278, 277-287.

Wallace K, Flecknell PA, Burt AD, Wright MC. 2010. Disrupted pancreatic exocrine differentiation and malabsorption in response to chronic elevated systemic glucocorticoid. *American Journal of Pathology* 177, 1225-1232.

Wallace K, Burt AD, Wright MC. 2008. Liver fibrosis. *Biochemical Journal* 411, 1-18.

Haughton EL, Tucker SJ, Marek CJ, Leel V, Durward E, Bascal Z, Monaghan T, Koruth M, Mann DA, Collie-Duguid E, Trim JE, Wright MC. 2006. Pregnane X receptor activators inhibit human hepatic stellate cell trans-differentiation in vitro. *Gastroenterology* - 131, 194-209.

Marek CJ, Tucker SJ, Konstantinou DK, Elrick LJ, Haefner D, Sigalas C, Murray GI, Goodwin B, Wright MC. 2005. Pregnenolone 16 $\alpha$  carbonitrile inhibits rodent liver fibrogenesis via PXR-dependent and PXR-independent mechanisms. *Biochemical Journal* 387, 601-608.

Marek CJ, Cameron GA, Elrick LJ, Hawksworth GM, Wright M.C. 2003. Generation of hepatocytes expressing functional cytochromes P450 from a pancreatic progenitor cell line in vitro. *Biochemical Journal* 370, 763-9.

Wright MC, Issa R, Smart DE, Trim N, Murray GI, Primrose JN, Arthur MJ, Iredale JP, Mann DA. 2001. Gliotoxin stimulates the apoptosis of human and rat hepatic stellate cells and enhances the resolution of liver fibrosis in rats. *Gastroenterology* 121, 685-698.

Ratra GS, Morgan WA, Mullervy J, Powell CJ, Wright M.C. 1998. Methapyrilene hepatotoxicity is associated with oxidative stress, mitochondrial dysfunction and is prevented by the Ca<sup>2+</sup> channel blocker verapamil. *Toxicology* 130, 79-93.

Harvey J, Paine AJ, Wright M.C. 1998. Disruption of endogenous regulator homeostasis underlies the mechanism of rat CYP1A1 mRNA induction by metyrapone. *Biochemical Journal* 331, 273-281.

Wright MC, Wang X, Pimenta M, Ribeiro V, Paine AJ, Lechner MC. 1996. Glucocorticoid receptor-independent transcriptional induction of CYP3A1 by metyrapone and its potentiation by glucocorticoid. *Molecular Pharmacology* 50, 856-863.

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