University of Birmingham

# Dr Carmel McConville PhD

Senior Lecturer

## Contact details

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## About

Carmel McConville is a Senior Lecturer in the School of Cancer Sciences. Her research interests are in the field of childhood cancer, particularly neuroblastoma and retinoblastoma. (test)

## Qualifications

- PhD in Genetics, The Queen's University of Belfast, 1986
- BSc (Hons) in Botany/Genetics, The Queen's University of Belfast, 1982

## Biography

Carmel McConville undertook undergraduate and postgraduate study at the Queen's University of Belfast before joining the Cancer Research UK Institute for Cancer Studies at Birmingham University in 1985. There she carried out research into the genetics of the cancer predisposing disorder, ataxia telangiectasia. In 1995 Carmel took up a Senior Lecturer position at Birmingham Children's hospital to research childhood cancers, and has continued this work, based in the School of Cancer Sciences.

## Teaching

- **Medicine and Surgery MBChB** (/undergraduate/courses/med/medicine.aspx)
- **Medical Science BMedSc** (/undergraduate/courses/med/medical-sci.aspx)
- **Clinical Oncology MSc/Postgraduate Diploma - Full-time** (/postgraduate/courses/taught/med/clinical-oncology-full-time.aspx)

## Postgraduate supervision

Carmel supervises doctoral research students working in the field of childhood cancer.

## Research

### Research Themes

Cancer Genetics and Epigenetics.

### Research Activity

Carmel's research is focused on understanding the molecular events leading to the development and progression of childhood solid tumours, particularly neuroblastoma and retinoblastoma. The approach is to integrate information from genome, epigenome, transcriptome and metabolome in order to define the molecular pathways which characterize tumour types and sub-types. Ultimately the aim is to translate this information into improved diagnosis and treatment for children with cancer.

## Publications

Mirbahai L, Wilson M, Shaw CS, McConville C, Malcomson RD, Griffin JL, et al. (1)H magnetic resonance spectroscopy metabolites as biomarkers for cell cycle arrest and cell death in rat glioma cells. Int J Biochem Cell Biol. 2010 Jul 13.

Abbaszadeh F, Barker K, McConville C, Scott R, Rahman N. A new familial cancer syndrome including predisposition to Wilms tumor and neuroblastoma. Familial Cancer. 2010;9(3):425-30.

Wilson M, Davies N, Brundler M-A, McConville C, Grundy R, Peet A. High resolution magic angle spinning 1H-NMR of childhood brain and nervous system tumours. Molec Cancer. 2009;8:6:doi:10.1186/476-4598-8-6.

Capasso M, Devoto M, Hou C, Asgharzadeh S, Glessner J, Attiyeh E, et al. Common variations in BARD1 influence susceptibility to high-risk neuroblastoma. Nature Genetics. 2009;41:718-23.

Marston E, Weston V, Jesson J, Maina E, McConville C, Agathanggelou A, et al. Stratification of paediatric ALL by in vitro cellular responses to DNA double strand breaks provides insight into the molecular mechnanisms underlying clinical response. Blood. 2008;113:117-26.

Maris J, Mosse Y, Bradfield J, Hou C, Monni S, Scott R, et al. Chromosome 6p22 locus associated with clinically aggressive neuroblastoma. New Eng J Med. 2008;358:2585-93.

Peet A, McConville C, Wilson M, Levine B, Reed M, Dyer S, et al. 1H Magnetic resonance spectroscopy identifies specific metabolite profiles associated with MYCN amplified and non-amplified tumour subtypes of neuroblastoma cell lines. NMR in Biomedicine. 2007;20:692-700.

McConville C, Reid S, Baskcomb L, Douglas J, Rahman N. PHOX2B analysis in non-syndromic neuroblastoma cases reveals novel mutations. Am J Med Genet. 2006;140A:1297-301.

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