University of Birmingham

Professor Jonathan Green

Deputy Pro-Vice-Chancellor for Education

School of Biosciences (/schools/biosciences/index.aspx)

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About

Professor Jonathan Green is the Deputy Pro-Vice-Chancellor for Education as well as being a member of the academic staff in the School of Biosciences. He has interests in innovative methods of teaching, including interactive lectures and the uses of different types of assessment and feedback. His research interests are in infection processes of fungal plant pathogens.

Qualifications

BSc (Hons) Natural Sciences (Biochemistry) University of Cambridge
PhD Biochemistry , University of Cambridge

Biography

After completing his PhD in Plant Biochemistry, Professor Green spent 18 months at EMBL in Heidelberg, Germany, before returning to Cambridge to study cell signaling in lymphocytes. He then moved to a Group Leader's position at the MRC Cellular Immunology Unit in Oxford for four years during which he used monoclonal antibody techniques to study the functions of T lymphocyte cell surface glycoproteins. He was appointed to a lectureship in Plant Biology at the University of Birmingham in 1985 and became Senior Lecturer in 1995. He was Head of Education in the School of Biosciences from June 2008 – April 2011. He became Director of Education in the College of Life and Environmental Sciences in January 2011 and went on to become Deputy Pro-Vice-Chancellor for Education in 2013.

Teaching

Contributes to several course in all three years of the undergraduate programmes in Biochemistry, Biological Sciences and Human Biology. These include:

- BIO152 – Cell Biology & Physiology
- BIO237 - Plant Biology
- BIO258 – Microbes & Man
- BIO338 - Molecular & Cellular Basis of the Immunology

Also teaches a module on Therapeutic Biologicals in the PGT Masters Programme, Molecular Biotechnology.

Postgraduate supervision

For a list of possible PhD projects offered by Professor Green:

www.findaphd.com/search/customlink.asp?inst=birm-Biol&supersurname=Green (http://www.findaphd.com/search/customlink.asp?inst=birm-Biol&supersurname=Green)

Research

Research Theme within School of Biosciences: **Molecular and Cell Biology (/research/activity/cellbiology/index.aspx)**

Infection Processes of Fungal Plant Pathogens; Fungal Cell Surfaces

Interests in the infection processes of necrotrophic fungal plant pathogens (the wheat pathogens Stagonospora nodorum and Septoria tritici) and hemibiotrophic pathogens (Colletotrichum species, in particular the bean anthracnose pathogen C. lindemuthianum). Genes and proteins expressed during infection have been identified using monoclonal antibodies, microarrays and proteomics. Also interested in the components that make up fungal cell surfaces, including cell wall glycoproteins, adhesive components and the specialised interfaces that form between biotrophic infection structures and the host plant. The aim has been to characterise key molecules and determine their functions using molecular and cell biology techniques.

Publications

Hutchison KA, Green JR, Wharton PS, O'Connell RJ (2002) Identification and localisation of glycoprotein in the extracellular matrices around germ-tubes and appressoria of *Colletotrichum* species. *Mycol. Res.* 106: 729-736.

RogersCW, Challen MP, Green JR, Whipps JM (2004) Use of REMI and Agrobacterium-mediated transformation to identify pathogenicity mutants of the biocontrol fungus *Coniothyrium minitans FEMS Microbiol. Lett* 241: 207-214

RawlingsSL, O'Connell RJ, Green JR (2007) The spore coat of the bean anthracnose fungus *Colletotrichum lindemuthianum* is required for adhesion, appressorium development and pathogenicity. *Physiol. Mol. Plant Pathol.* 70: 110-119

Newey LJ, Caten CE, Green JR (2007) Rapid adhesion of *Stagonospora nodorum* spores to a hydrophobic surface requires pre-formed cell surface glycoproteins. *Mycol. Res*. 111: 1255-1267

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