

Dr Shishir Shetty PhD, MRCP

Wellcome Trust Intermediate Clinical Fellow and Honorary Consultant Hepatologist

School of Immunity and Infection

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About

Shishir Shetty is a clinician scientist in the Centre for Liver Research and honorary consultant hepatologist at the Queen Elizabeth Liver Transplant Unit, Birmingham. He has received grant funding from the Wellcome Trust, the Core Charity and the Bardhan Research and Education Trust.

Shishir's research focus is the regulation of leucocyte recruitment to the liver and the role of novel adhesion molecules including C-type lectins. The overall aim is to identify new targets of therapy for inflammatory liver disease and primary liver cancer. His clinical interests include the management of hepatocellular cancer and co-existing liver disease.

Qualifications

- CCT 2011
- PhD Immunology 2011
- Membership of the Royal College of Physicians 2002
- MbChB 1999

Biography

Dr Shetty graduated in Medicine from the University of Leicester in 1999. He undertook his general medical training in Liverpool and then specialised in gastroenterology and hepatology, initially in London followed by the West Midlands. During his specialist training he obtained a research fellowship from the CORE charity and Bardhan Research and Education Trust to work on lymphocyte trafficking supervised by Professor David Adams and Dr Patricia Lalor in the University of Birmingham.

He gained his PhD in 2011 and also received his Certificate of Completion of Training in gastroenterology and general medicine. In the same year he was awarded a Wellcome Trust Intermediate Fellowship that commenced in April 2012. In recognition of the work produced during his PhD he was awarded the CORE research prize in 2012.

The focus of his Wellcome Trust fellowship is to study the role of CLEVER-1, a C-type Lectin, in chronic inflammatory liver disease. Shishir is also an honorary consultant hepatologist at the Queen Elizabeth Hospital Birmingham and works in the liver unit with a special interest in hepatocellular carcinoma.

Teaching

- Medical Science BMed Sc

Postgraduate supervision

Dr Shetty is interested in supervising doctoral research students in the following areas:

- Lymphocyte adhesion and migration via hepatic endothelium.
- Lymphocyte subset recruitment to the inflamed liver.
- The role of C-type lectins in chronic liver disease and primary liver cancer.

If you are interested in studying any of these subject areas please contact Dr Shetty on the contact details above.

Research

Most adult liver diseases follow a common pathway with lymphocyte infiltration of hepatic tissue driving the development of fibrosis. Lymphocyte recruitment occurs within the unique environment of the hepatic sinusoids lined by hepatic endothelium. Dr Shetty's research focus is studying lymphocyte subset interactions with hepatic endothelium using flow adhesion assays and confocal microscopy. Shishir is also studying the role of unconventional adhesion molecules, such as C-type lectins, in lymphocyte recruitment using in vivo models. The aim is to study receptors that modulate lymphocyte recruitment which could be therapeutic targets for liver disease.

During his PhD, Shishir demonstrated that the common lymphatic endothelial and vascular receptor-1 mediated the recruitment of regulatory T cells and B cells via hepatic sinusoidal endothelium. He also described a novel pathway of lymphocyte migration through hepatic endothelium via a transcellular route.



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Other activities

- Member of the Royal College of Physicians
- Member of British Gastroenterology Society
- Member of British Association for the Study of the Liver

Publications

- Shetty S, Adams DH, Hubscher SG. Post-transplant liver biopsy and the immune response: lessons for the clinician. *Expert Reviews Clinical Immunology* 2012 (In Press).
- Shetty S, Bruns T, Weston CJ, Stamataki Z, Oo YH, Long HM, Reynolds GM, Pratt G, Moss P, Jalkanen S, Hubscher SG, Lalor PF, Adams DH. Recruitment mechanisms of primary and malignant B cells to the human liver. *Hepatology*. 2012 Apr 16. doi: 10.1002/hep.25790. [Epub ahead of print]
- Shetty S, Weston CJ, Oo YH, Westerlund N, Stamataki Z, Youster J, Hubscher SG, Salmi M, Jalkanen S, Lalor PF, Adams DH. Common lymphatic endothelial and vascular endothelial receptor-1 mediates the transmigration of regulatory T cells across human hepatic sinusoidal endothelium. *J Immunol*. 2011 Apr 1;186(7):4147-55.
- Oo YH, Shetty S, Adams DH. The role of chemokines in the recruitment of lymphocytes to the liver. *Dig Dis*. 2010;28(1):31-44.
- Oo YH, Weston CJ, Lalor PF, Curbishley SM, Withers DR, Reynolds GM, Shetty S, Harki J, Shaw JC, Eksteen B, Hubscher SG, Walker LS, Adams DH. Distinct roles for CCR4 and CXCR3 in the recruitment and positioning of regulatory T cells in the inflamed human liver. *J Immunol*. 2010 Mar 15;184(6):2886-98.
- Shetty S, Lalor PF, Adams DH. Lymphocyte recruitment to the liver: molecular insights into the pathogenesis of liver injury and hepatitis. *Toxicology*. 2008 Dec 30;254(3):136-46.
- Shetty S, Holt AP, Syn WK, Fox CP, Gunson B, Neil D, Haydon G. Haematological malignancies presenting with acute liver injury: a single-centre experience. *QJM*. 2008 Dec;101(12):949-53.
- Lalor PF, Lai WK, Curbishley SM, Shetty S, Adams DH. Human hepatic sinusoidal endothelial cells can be distinguished by expression of phenotypic markers related to their specialised functions in vivo. *World J Gastroenterol*. 2006 Sep 14;12(34):5429-39.

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