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About

Ye Htun Oo is a Medical Research Council Clinician Scientist at Centre for Liver Research, University of Birmingham and Honorary Consultant Hepatologist at UHB NHS Foundation Trust.

Ye is a clinical academic and his major clinical interest include liver transplantation, viral and autoimmune hepatitis. He conducts dedicated viral and autoimmune hepatitis clinics, involved in DAA clinical trials and hepatitis C vaccination trials.

He is an Honorary Consultant Hepatologist in Liver Transplant and Hepato-biliary Department at University Hospital Birmingham NHS Foundation Trust.

Ye's major basic research interests are in hepatic tolerance, pathogenesis of liver inflammation and repair in autoimmune liver diseases, chronicity of HCV & HBV infection and operational tolerance.

He aims to translate understanding of scientific background for future cell and cytokine therapy for patients with autoimmune, viral hepatitis and in liver transplantation. His current focus is on understading the balance of effector immune cells and regulatory T/B cells in human liver inflammation.

He aim to restore immune homeostasis with GMP grade autologous regulatory T cells as part of his translational cell therapy programme.

Qualifications

- MRC Clinician Scientist & Consultant Transplant Hepatologist (2012)
- CCST General Internal Medicine/Gastroenterology 2011
- PhD (Regulatory T cells and Th17/Tc17 subsets) 2010
- Member of Royal College of Physicians 2001
- MBBS 1995

Biography

Ye qualify in Medicine in 1995 from Rangoon, Burma. He joined West Midlands Gastroenterology/Hepatology training programme in 2002 where received his training in Gastroenterology/ General Internal Medicine and Transplant Hepatology. He studied PhD on Hepatic Immunology particularly focusing on hepatic tolerance and human Regulatory T cells and intrahepatic lymphocyte subsets balance in liver inflammation and repair under supervision of Prof David Adams. Following that he invested a year isolating GMP grade regulatory T cells whilst involving in HCV therapeutic vaccination and Directly Acting Anti-viral clinical trials for HCV and VIRGIL project on Hepatitis B.

He completed his clinical training in 2011. He received a Clinician Scientist fellowship award from Medical Research Council in Jan 2012 to investigate both basic and preclinical study on Regulatory T cells homing and future translational therapy. He joined his colleagues in Liver Medicine clinical team as a Consultant Transplant Hepatologist in Jan 2012.

He currently holds

1. Medical Research Council Intermediate Fellowship Grant;
2. University of Birmingham Charity Grant
3. Autoimmune Hepatitis (UK) immunophenotyping multicentre grant (NIHR)

Teaching

Teaching Programmes

- **Medical Science BMedSc (/undergraduate/courses/med/medical-sci.aspx)**
- MRCP PACES
- MsC immunology (liver transplantation)
- Liver immunology

- West Midlands SpRs liver training day

Postgraduate supervision

Ye is interested in supervising PhD on research fellows and students in the following areas:

- Basic pathogenesis of hepatic inflammation and repair in viral hepatitis
- Pathogenesis and new therapy and autoimmune liver diseases
- Autologous Regulatory T cell therapy to restore immune homeostasis in autoimmune liver diseases.
- Crosstalk of adaptive and innate cells.

If you are interesting in studying any of these subject areas please contact Ye on **y.h.oo@bham.ac.uk (mailto:y.h.oo@bham.ac.uk)** or the contact details above.

Research

Research team

Ye research team bridge both basic science and translational work. Currently his group consists of two post-doctoral scientists, one PhD student and intercated medical students.

Research theme (Basic Science)

A) Effector and Treg balance in liver inflammation and fibrosis

B) Innate and adaptive immune cells crosstalk with Treg in hepatic inflammation and fibrosis

c) Tumor Immunology

D) Viral Immunology

Research theme (Translational)

GMP grade Human Regulatory T cells theapy

Research theme (Clinical)

Dedicated AIH clinic

Post transplant HCV clinic

Other activities

- Honorary Consultant Hepatologist
- British Association for Study of the Liver Disease member
- European Association for Study of the Liver Disease member
- American Association for Study of the Liver Disease member
- Member of British Viral Hepatitis Group
- Sutton Runners

Publications

Full list of publications (http://www.ncbi.nlm.nih.gov/pubmed/?term=oo+y)

Regulatory T cell directed therapies in liver diseases
YH Oo, S Sakaguchi
Journal of Hepatology 2013 Nov (in press)

CXCR3-dependent recruitment and CCR6-mediated positioning of Th-17 cells in the inflamed liver.
Oo YH, Banz V, Kavanagh D, Liaskou E, Withers DR, Humphreys E, Reynolds GM, Lee-Turner L, Kalia N, Hubscher SG, Klenerman P, Eksteen B, Adams DH.
J Hepatol. 2012 Nov;57(5):1044-51.

Regulatory T cells and autoimmune hepatitis: defective cells or a hostile environment?
Oo YH, Adams DH.
J Hepatol. 2012 Jul;57(1):6-8.

Novel adenovirus-based vaccines induce broad and sustained T cell responses to HCV in man;
Barnes E, Folgori A, Capone S, Swadling L, Aston S, Kurioka A, Meyer J, Huddart R, Smith K, Townsend R, Brown A, Antrobus R, Ammendola V, Naddeo M, O'Hara G, Willberg C, Harrison A, Grazioli F, Esposito ML, Siani L, Traboni C, Oo Y, Adams D, Hill A,Colloca S, Nicosia A, Cortese R, Klenerman P.
Sci Transl Med. 2012 Jan 4;4(115):115ra1.

Entecavir treatment for chronic hepatitis B: adaptation is not needed for the majority of naïve patients with a partial virological response. Zoutendijk R, Reijnders JG, Brown A, Zoulim F, Mutimer D, Deterding K, Petersen J, Hofmann WP, Buti M, Santantonio T, van Bömmel F, Pradat P, Oo Y, Luetgehetmann M, Berg T, Hansen BE, Wedemeyer H, Janssen HL; VIRGIL Surveillance Study Group.
Hepatology. 2011 Aug;54(2):443-51

Distinct roles for CCR4 and CXCR3 in the recruitment and positioning of regulatory T cells in the inflamed human liver; Journal of Immunology; 2010 Mar 15;184(6):2886-98
YH Oo, C Weston, P F Lalor, S Curbishley, DR Withers, GM Reynolds, S Shetty, J Harki, JC Shaw, B Eksteen, SG Hubscher, LS Walker, DH Adams

Analysis of CD161 expression on human CD8+ T cells defines a functional subset with tissue-homing properties;
Proc Natl Acad Sci U S A. 2010 Feb 16;107(7):3006-11)
Billerbeck E, Kang YH, Walker L, Lockstone H, Grafmueller S, Fleming V, Flint J, Willberg CB, Bengsch B, Seigel B, Ramamurthy N,
Zitzmann N, Barnes EJ, Thevanayagam J, Bhagwanani A, Leslie A, YH Oo, Kollnberger S, Bowness P, Drognitz O, Adams DH, Blum HE, Thimme R, Klenerman P.

Tacrolimus and Cyclosporin doses and blood levels in Hepatitis C and Alcoholic liver disease patients after liver transplantation
YH Oo, T Dudley, P Nightingale, G Haydon, D Mutimer
Liver Transplantation 2008, Jan 14(1) 81-87

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