

**Poster abstract titles for the ‘The London Infections & Immunity Symposium’**

**31st October – 1st November 2022**

**Also available online**

**Please save some paper and scan**

**the code to download instead**

Poster no. 1

Neonatal skin Tregs regulate PPARγ pathway to control pigmentation of the skin

Inchul Cho, King’s College London

[Inchul.cho@kcl.ac.uk](mailto:Inchul.cho@kcl.ac.uk)

Poster no. 2

An immunoresponsive three-dimensional urine-tolerant human urothelial (3D-UHU) model to study urinary tract infection

Nazila Jafari, UCL

[n.jafari@ucl.ac.uk](mailto:n.jafari@ucl.ac.uk)

Poster no. 3

Dynamics of TGF-β1 secretion and activation by Intestinal Epithelium and Innate Lymphoid Cells

Diana Coman, King’s College London

[diana.coman@kcl.ac.uk](mailto:diana.coman@kcl.ac.uk)

Poster no. 4

The role of peroxisomes during M. tuberculosis infection of human macrophages

Enrica Pellegrino, The Francis Crick Institute

[enrica.pellegrino@crick.ac.uk](mailto:enrica.pellegrino@crick.ac.uk)

Poster no. 5

Type I interferons and MAVS signalling are necessary for tissue-resident memory CD8+ T cell responses to RSV infection

Joy Nakawesi, Imperial College London

[j.nakawesi@imperial.ac.uk](mailto:j.nakawesi@imperial.ac.uk)

Poster no. 6

Investigating the transcriptional regulation underlying the development, survival, and function of memory B cells

Damaris Bennett, The Francis Crick Institute

[damaris.bennett@crick.ac.uk](mailto:damaris.bennett@crick.ac.uk)

Poster no. 7

Inhibition of *Salmonella enterica* infection by interferon-stimulated genes

Ruth Dickenson, King’s College London

[Ruth.dickenson@kcl.ac.uk](mailto:Ruth.dickenson@kcl.ac.uk)

Poster no. 8

Natural killer T cell regulation of intestinal epithelial cell biology

Marta Lebrusant-Fernandez, The Francis Crick Institute

[marta.lebrusant@crick.ac.uk](mailto:marta.lebrusant@crick.ac.uk)

Poster no. 9

Immune responses to lipids in the skin

Charlotte Chaloner, King’s College London & The Francis Crick Institute

Charlotte.chaloner@kcl.ac.uk

Poster no. 10

Mucosal-associated invariant T (MAIT) cells: new players against antibiotic-resistant bacteria infection

Juan Carlos Lopez-Rodriguez, King’s College London

[juan.lopez-rodriguez@crick.ac.uk](mailto:Matthew.stower@dpag.ox.ac.uk)

Poster no. 12

Benchmarking and fine-tuning AlphaFold to yield consistently high-resolution 3D structure predictions for peptide:MHC Class I (pMHCI) complexes

Christopher Thorpe

[drchristhorpe@gmail.com](mailto:Matthew.stower@dpag.ox.ac.uk)

Poster no. 14

Autosomal dominant stat6 gain of function causes severe atopy associated with lymphoma

Jesmeen Maimaris, IIT, UCL

[j.maimaris@ucl.ac.uk](mailto:j.maimaris@ucl.ac.uk)

Poster no. 15

Functional analysis of variants of unknown significance in the stat-1 gene

Adriana S Albuquerque, UCL – Institute of Immunity & Transplantation

[a.albuquerque@ucl.ac.uk](mailto:a.albuquerque@ucl.ac.uk)

Poster no. 16

Investigating the role of serum Hepatitis B core-related antigen (HBcrAg) in predicting clinical outcomes in Hepatitis B e antigen (HBeAg) negative Chronic Hepatitis B patients on antiviral therapy

Christiana Moigboi, King’s College London

[Christiana.moigboi@kcl.ac.uk](mailto:Christiana.moigboi@kcl.ac.uk)

Poster no. 18

Pinpointing the role of IL-21 in directing B cell fate within germinal centres

Lina Petersone, UCL

[lina.petersone.15@ucl.ac.uk](mailto:lina.petersone.15@ucl.ac.uk)

Poster no. 19

Fully synthetic macrocyclic PROTACs as selective cyclophilin A degraders and HIV-1 inhibitors

Lydia Newton, UCL

[lydia.newton.20@ucl.ac.uk](mailto:lydia.newton.20@ucl.ac.uk)

Poster no. 20

An Experimental Medicine study to assess sequential immunisations with rationally designed immunogens to HIV-1

Katsiaryna Shramko & Jennifer Joypooranachandran, Imperial College London

[katsiaryna.shramko19@imperial.ac.uk](mailto:katsiaryna.shramko19@imperial.ac.uk)

[j.joypooranachandran@imperial.ac.uk](mailto:j.joypooranachandran@imperial.ac.uk)

Poster no. 22

T cell migration requires ion and water influx to regulate actin polymerization

Leonard de Boer, The Francis Crick Institute

[leon.deboer@crick.ac.uk](mailto:leon.deboer@crick.ac.uk)

Poster no. 23

Stratification of PD-1 blockade response in melanoma using pre- and post-treatment immunophenotyping of peripheral blood

Natalie Edner, UCL Institute of Immunity & Transplantation

natalie.edner.15@ucl.ac.uk

Poster no. 25

Clonal haematopoiesis shapes the immune system: the case of the preleukemic neutrophil

Hector Huerga Encabo, The Francis Crick Institute

[Hector.encabo@crick.ac.uk](mailto:Hector.encabo@crick.ac.uk)

Poster no. 26

The Evolution of a Transplantable Tumour

Ahmed Rokan, UCL

[ahmed.rokan.19@ucl.ac.uk](mailto:ahmed.rokan.19@ucl.ac.uk)

Poster no. 27

Co-stimulation blockade in combination with IL-2 permits Treg sparing immunomodulation that regulates type 1 diabetes

Chunjing Wang, Institute of Immunity and Transplantation, UCL

[c.wang@ucl.ac.uk](mailto:c.wang@ucl.ac.uk)

Poster no. 28

A novel particle-based model to analyse bivalent binding of antibodies

Anna Huhn, University of Oxford

[anna.huhn@path.ox.ac.uk](mailto:anna.huhn@path.ox.ac.uk)

Poster no. 29

Class-switching to IgG is detrimental in a subset of B-cell lymphomas but is rescued by mutations of the IgG BCR cytosolic tail

Laabiah Wasim, The Francis Crick Institute & UCL

[Laabiah.wasim@crick.ac.uk](mailto:Laabiah.wasim@crick.ac.uk)

Poster no. 30

Neuro-immune interactions in food allergy: A focus on hippocampal neurogenesis

Vikki Houghton, King’s College London

[vikki.houghton@kcl.ac.uk](mailto:vikki.houghton@kcl.ac.uk)

Poster no. 31

Antiviral CTL Responses During the Evolution of Cancer

Devon Weterings, Imperial College London

[dw916@ic.ac.uk](mailto:dw916@ic.ac.uk)

Poster no. 32

The intestinal microbiome as a therapeutic target for restoring MAIT cell function in cirrhosis

Thomas Tranah, The Francis Crick Institute

[tom.tranah@crick.ac.uk](mailto:tom.tranah@crick.ac.uk)

Poster no. 34

Role of innate signaling pathways on initial responsiveness to house dust mite exposure and their link to development of allergic airway inflammation

Anne-Marie Levins, Imperial College London

[atl19@ic.ac.uk](mailto:atl19@ic.ac.uk)

Poster no. 35

Characterisation of B cell surface proteome by proximity labelling

Victor Yeung, The Francis Crick Institute

[yeungv@crick.ac.uk](mailto:yeungv@crick.ac.uk)

Poster no. 36

Conquering the bladder: the crosstalk between an innovative 3D human urothelial microtissue model, the uropathogen and the commensal

Carlos Flores, UCL

[c.flores@ucl.ac.uk](mailto:c.flores@ucl.ac.uk)

Poster no. 37

Immune markers associated with resistance and susceptibility to experimental Respiratory Syncytial Virus challenge in older adults

Stephanie Ascough, Imperial College London

[s.ascough@imperial.ac.uk](mailto:s.ascough@imperial.ac.uk)

Poster no. 38

Establishment of a 3D spheroid granuloma model for human Tuberculosis

Leigh Kotze, The Francis Crick Institute

[Leigh.kotze@crick.ac.uk](mailto:Leigh.kotze@crick.ac.uk)

Poster no. 40

Elucidating novel pathways of BAFF-receptor signalling for B-cell survival

Daisy Luff, The Francis Crick Institute

[Daisy.luff@crick.ac.uk](mailto:Daisy.luff@crick.ac.uk)

Poster no. 41

Investigating the Chromatin Landscape Effects on HIV-1 Latency

Nawal Al Burtamani, UCL

[nawal.burtamani.17@ucl.ac.uk](mailto:nawal.burtamani.17@ucl.ac.uk)

Poster no. 42

NF-κB induced A20 expression in activated T cells controls IKK dependent repression of RIPK1 induced cell death

Scott Layzell, UCL Institute of Immunity and Transplantation

[scott.layzell.17@ucl.ac.uk](mailto:scott.layzell.17@ucl.ac.uk)

Poster no. 44

Presence of neutrophils in the lungs prior to infection with respiratory viruses alters disease severity in mice

Amber Owen, Imperial College London

[a.owen19@imperial.ac.uk](mailto:a.owen19@imperial.ac.uk)

Poster no. 45

Caspase cleavage of Influenza A virus M2 as a regulator of infection-induced LC3 lipidation

Carmen Figueras Novoa, The Francis Crick Institute

[carmen.novoa@crick.ac.uk](mailto:carmen.novoa@crick.ac.uk)

Poster no. 46

MitoHeat – febrile range temperature may protect and recover sepsis-driven mitochondrial dysfunction

Jonathan Falconer, UCL - Division of Medicine

[jonathan.falconer1@nhs.net](mailto:jonathan.falconer1@nhs.net)

Poster no. 47

Immune-gut interactions in oral tolerance and food allergy

Janarthanan Ilangovan, King’s College London

[janarthanan.ilangovan@kcl.ac.uk](mailto:janarthanan.ilangovan@kcl.ac.uk)

Poster no. 48

Capturing the heterogeneity of *Shigella* infection with high content microscopy

Kamla Pillay, LSHTM

[lsh1806992@lshtm.ac.uk](mailto:lsh1806992@lshtm.ac.uk)

Poster no. 49

Serological profiles of SARS-CoV-2 neutralization

Edward Carr, The Francis Crick Institute

Edward.carr@crick.ac.uk

Poster no. 50

High-Throughput CRISPR Screen Identifies Novel Long Noncoding RNAs That Regulate Macrophage Viability and Function

Cristina Flores-Arenas, University of California, Santa Cruz

[Cflore35@ucsc.edu](mailto:Cflore35@ucsc.edu)

Poster no. 51

Deficiency in type I interferon signaling results in dysregulated innate immune responses to SARS-CoV-2 in mice

Cecilia Johansson, Imperial College London

[c.johansson@imperial.ac.uk](mailto:c.johansson@imperial.ac.uk)

Poster no. 52

Aerosol Vaccination against SARS-CoV-2 induces local and systemic cellular immune responses

Nana-Marie Lemm, Imperial College London

[Nl1519@ic.ac.uk](mailto:Nl1519@ic.ac.uk)

Poster no. 53

Viral-induced COPD exacerbations drive ILC subset plasticity and an ILC1-favoured microenvironment

Kyle T Mincham, National Heart and Lung Institute

k.mincham@imperial.ac.uk

Poster no. 54

Inflammasome signalling in Tuberculosis: New routes to host directed therapy

Fabia Fruck, Imperial College London

[fabia.fruck18@imperial.ac.uk](mailto:fabia.fruck18@imperial.ac.uk)

Poster no. 55

Fungal infection drives immunometabolic reprogramming in epithelial cells via aerobic glycolysis and an alternative TCA cycle shunt

Aize Pellon, King’s College London

[aize.pellon@kcl.ac.uk](mailto:aize.pellon@kcl.ac.uk)

Poster no. 56

Transcriptomics investigation of the adaptation of *Streptococcus pneumoniae*

Modupeh Betts, UCL

[Modupeh.betts.17@ucl.ac.uk](mailto:Modupeh.betts.17@ucl.ac.uk)