

陸思聰 **Lok Si Chong (Laurence)**

PhD MA BA MB BChir MRCP AHEA

Education

- 2015–2018 Jesus College, University of Cambridge, UK (PhD)
- 2001–2006 Jesus College, University of Cambridge, UK (Undergraduate)
- 1999–2001 Colchester Royal Grammar School, UK (A Levels)
- 1988–1999 Yuet Wah College, Macau (Primary and Secondary School)

Qualifications

- 2020 Doctor of Philosophy (PhD), University of Cambridge, UK
- 2020 Certificate of Completion of Training (CCT), UK
Specialties: Respiratory Medicine, General Internal Medicine
- 2018 Specialty Certificate in Respiratory Medicine, UK
- 2011 Associate of the Higher Education Academy (AHEA), UK
- 2010 Membership of the Royal College of Physicians (MRCP), UK
- 2008 Master of Arts (MA), University of Cambridge, UK
- 2007 Bachelor of Medicine and Surgery (MB BChir), University of Cambridge, UK
Distinction in Final MB Pathology examination
- 2004 Bachelor of Arts (BA), University of Cambridge, UK
First class in all three years (Part 1 Medical Sciences, Part 2 Physiology)

Prizes

- 2018 Oral Presentation Award, The Neutrophil conference, Quebec City, Canada
- 2014 East Anglian Thoracic Society Young Investigator Award, UK
- 2011 Shining Light Award (for dedication and quality of care), Ipswich Hospital, UK
- 2008 Commendation in Finalmed Prize Competition UK
- 2005 Gresham Prize Winner (joint), Clinical School, University of Cambridge, UK
- 2004 Bursary and Fellowship of the Cambridge Overseas Society, UK
- 2004 College Prize and Scholarship for Natural Sciences, Jesus College, Cambridge, UK
- 2003 Duckworth Prize for Medical Sciences, Jesus College, Cambridge, UK
- 2003 College Scholarship, Jesus College, Cambridge, UK
- 2002 College Exhibition, Jesus College, Cambridge, UK

Employment

- Apr 2024–present Associate Professor, Faculty of Medicine, Macau University of Science and Technology, Macau, China
- Jun 2020–Feb 2024 Postdoctoral Research Fellow, Immunology Frontier Research Center, Osaka University, Japan
- Feb 2020–May 2020 Consultant in Respiratory Medicine, Cambridge University Hospitals, UK
- Aug 2019–Feb 2020 Specialty Registrar in Respiratory and General Medicine, Cambridge University Hospitals, UK
- Aug 2018–Aug 2019 Specialty Registrar in Respiratory Medicine, Royal Papworth Hospital, UK

- Feb 2018–Aug 2018 Specialty Registrar in Respiratory and General Medicine, Cambridge University Hospitals, UK
- Aug 2013–Feb 2018 Clinical Research Fellow, Department of Medicine, University of Cambridge, UK
- Aug 2012–Aug 2013 Specialty Registrar in Respiratory and General Medicine, Lister Hospital, UK
- Aug 2011–Aug 2012 Specialty Registrar in Respiratory and General Medicine, Ipswich Hospital, UK
- Aug 2009–Aug 2011 Core Medical Trainee, Barnet General, Royal Brompton and Harefield Hospitals, UK (Endocrine, Gastroenterology, Geriatrics, Transplant Medicine, Intensive Care Medicine, Respiratory Medicine)
- Feb 2007–Aug 2009 Foundation doctor, Hinchingsbrooke, Royal Papworth and Cambridge University Hospitals, UK (Medicine, Paediatrics, Surgery, General Practice, Orthopaedics, Cardiology)

Management

- Aug 2015–Aug 2018 Respiratory journal club organiser, Cambridge University Hospitals, UK
- Aug 2012–Aug 2013 Rota coordinator for respiratory team, Lister Hospital, UK
- Aug 2012–Aug 2013 Associate College Tutor for Medicine, Lister Hospital, UK

Teaching

- Aug 2012–Aug 2013 Clinical supervisor responsible for weekly bedside clinical teaching for Cambridge medical students, Lister Hospital, UK
- Aug 2011–Jun 2012 Clinical supervisor responsible for weekly bedside clinical teaching for Cambridge medical students, Ipswich Hospital, UK
- Sep 2008–Feb 2011 Completed University of Cambridge Clinical Supervisor Staff Development Programme and qualified for Associate of the Higher Education Academy (AHEA), UK
- Aug 2008–Aug 2009 Clinical supervisor responsible for weekly bedside clinical teaching for Cambridge medical students, Cambridge University Hospitals, UK
- Sep 2004–Sep 2009 Pre-clinical supervisor responsible for weekly tutorials in Physiology for medical students, Jesus College, University of Cambridge, UK

Research

- Jun 2020–Feb 2024 Postdoctoral Research Fellowship (Advanced Postdoc Program), Immunology Frontier Research Center, Osaka University, Japan
Investigating the dynamic behaviour of innate immune cells *in vivo* (supervisor: Professor Masaru Ishii)
- Feb 2015–Feb 2018 Wellcome Trust PhD Research Training Fellowship, University of Cambridge, UK
Imaging neutrophil behaviour in lymphoid organs (supervisors: Professor Menna Clatworthy and Professor Edwin Chilvers)
- Aug 2013–Feb 2015 Evelyn Trust Research Training Fellowship, University of Cambridge, UK
Effects of interleukin-6 receptor blockade on human neutrophil function and kinetics (supervisor: Professor Edwin Chilvers)
- Jan 2004–Mar 2004 Undergraduate research project, University of Cambridge, UK

Effects of oestrous cycle on polyethyleneimine-mediated reporter gene delivery to murine airways (supervisor: Professor Bill Colledge)

Presentations

- Jun 2018 **Lok LSC**, Dennison TW, Chilvers ER, Clatworthy MR. The homeostatic role of lymph node-resident neutrophils in adaptive immunity. Oral presentation, The Neutrophil conference, Quebec City, Canada
- Dec 2017 **Lok LSC**, Stewart B, Chilvers ER, Clatworthy MR. The role of lymph node-resident neutrophils in adaptive immunity. *Thorax* 2017;72(Suppl 3) A14-5. Oral presentation, British Thoracic Society Meeting, London, UK
- Nov 2015 **Lok LSC**, Juss JK, Farahi N, Loutsios C, Solanki C, Peters AM, Dimonaco S, Donaldson F, Porter-Brown B, Chilvers ER. Neutrophil function and survival unaffected in healthy subjects following single administration of tocilizumab. *Arthritis and Rheumatology* 2015;67(Suppl 10). Poster presentation, American College of Rheumatology Annual Meeting, San Francisco, USA
- Jan 2013 Lodge K, **Lok LSC**, Win T. Lung cancer diagnosis, EGFR testing and their implications. *Lung Cancer* 2013;79(Suppl 1):S5. Poster presentation, British Thoracic Oncology Group Conference, Dublin, Ireland
- May 2012 **Lok LSC**, Innes NJ, Rabbani R. Improving the lung cancer diagnostic pathway: small change, big difference. *American Journal of Respiratory and Critical Care Medicine* 2012;185:A5143. Poster presentation, American Thoracic Society Meeting, San Francisco, USA
- Dec 2010 **Lok LSC**, Ridge L, Barrett J, Mack DJF, Creer DD. The London TB Metrics: are targets achievable in a local district hospital clinic? *Thorax* 2010;65(Suppl 4):A101-2. Poster presentation, British Thoracic Society Winter Meeting, London, UK

Publications

1. Riding AM, Loudon KW, Guo A, Ferdinand JR, **Lok LSC**, Richoz N, Stewart A, Castro-Dopico T, Tuong ZK, Fiancette R, Bowyer GS, Fleming A, Gillman ES, Suchanek O, Mahbubani KT, Saeb-Parsy K, Withers D, Dougan G, Clare S, Clatworthy MR. Group 3 innate lymphocytes make a distinct contribution to type 17 immunity in bladder defence. *iScience* 2022;25(7):104660.
2. Zhang Y, Garcia-Ibanez L, Ulbricht C, **Lok LSC**, Pike JA, Mueller-Winkler J, Dennison TW, Ferdinand JR, Burnett CJM, Yam-Puc JC, Zhang L, Alfaro RM, Takahama Y, Ohigashi I, Brown G, Kurosaki T, Tybulewicz VLJ, Rot A, Hauser AE, Clatworthy MR, Toellner KM. Recycling of memory B cells between germinal center and lymph node subcapsular sinus supports affinity maturation to antigenic drift. *Nature Communications* 2022;13(1):2460.
3. **Lok LSC**, Clatworthy MR. Neutrophils in secondary lymphoid organs. *Immunology* 2021;164(4):677-88. (Joint corresponding authors)
4. **Lok LSC**, Walker JA, Jolin HE, Scanlon ST, Ishii M, Fallon PG, McKenzie ANJ, Clatworthy MR. Group 2 innate lymphoid cells exhibit tissue-specific dynamic behaviour during type 2 immune responses. *Frontiers in Immunology* 2021;12:711907.
5. Farahi N, Gillett D, Southwood M, Rassl D, Tregay N, Hill U, Preston SD, Loutsios C, **Lok LSC**, Heard S, Buscombe J, Rintoul RC, Peters AM, Summers C, Chilvers ER. Lesson of the month: novel method to quantify neutrophil uptake in early lung cancer using SPECT-CT. *Thorax* 2020;75(11):1020-3.

6. Castro-Dopico T, Fleming A, Dennison TW, Ferdinand JR, Harcourt K, Stewart BJ, Cader Z, Tuong ZK, Jing C, **Lok LSC**, Mathews RJ, Portet A, Kaser A, Clare S, Clatworthy MR. GM-CSF calibrates macrophage defense and wound healing programs during intestinal infection and inflammation. *Cell Reports* 2020;32(1):107857.
7. Jing C, Castro-Dopico T, Richoz N, Tuong ZK, Ferdinand JR, **Lok LSC**, Loudon KW, Banham GD, Mathews RJ, Cader Z, Fitzpatrick S, Bashant KR, Kaplan MJ, Kaser A, Johnson RS, Murphy MP, Siegel RM, Clatworthy MR. Macrophage metabolic reprogramming presents a therapeutic target in lupus nephritis. *Proceedings of the National Academy of Sciences of the United States of America* 2020;117(26):15160-71.
8. **Lok LSC**, Dennison TW, Mahbubani KM, Saeb-Parsy K, Chilvers ER, Clatworthy MR. Phenotypically distinct neutrophils patrol uninfected human and mouse lymph nodes. *Proceedings of the National Academy of Sciences of the United States of America* 2019;116(38):19083-9.
9. Farahi N, Loutsios C, Tregay N, Wright AK, Berair R, **Lok LSC**, Gillett D, Cullum I, Simmonds RP, Summers C, Wong A, Solanki CK, Buscombe J, Pang PH, Thavakumar A, Peters AM, Brightling CE, Condliffe AM, Chilvers ER. In vivo imaging reveals increased eosinophil uptake in the lungs of obese asthmatic patients. *Journal of Allergy and Clinical Immunology* 2018;142(5):1659-62.e8.
10. Farahi N, Loutsios C, Tregay N, Summers C, **Lok LSC**, Ruparelia P, Solanki CK, Gillett D, Chilvers ER, Peters AM. Radiolabelled leucocytes in human pulmonary disease. *British Medical Bulletin* 2018;127(1):69-82.
11. **Lok LSC**, Farahi N, Juss JK, Loutsios C, Solanki CK, Peters AM, Donaldson F, Porter-Brown B, Chilvers ER. Effects of tocilizumab on neutrophil function and kinetics. *European Journal of Clinical Investigation* 2017;47(10):736-45.
12. Koop G, Vrieling M, Storisteanu DML, **Lok LSC**, Monie T, van Wigcheren G, Raisen C, Ba X, Gleadall N, Hadjirin N, Timmerman AJ, Wagenaar JA, Klunder HM, Fitzgerald JR, Zadoks R, Paterson GK, Torres C, Waller AS, Loeffler A, Loncaric I, Hoet AE, Bergström K, de Martino L, Pomba C, de Lencastre H, Ben Slama K, Gharsa H, Richardson EJ, Chilvers ER, de Haas C, van Kessel K, van Strijp JA, Harrison EM, Holmes MA. Identification of LukPQ, a novel, equid-adapted leukocidin of *Staphylococcus aureus*. *Scientific Reports* 2017;7:40660.
13. Nikolic MZ, **Lok LSC**, Mattishent K, Barth S, Yung B, Cummings NM, Wade D, Vali Y, Chong K, Wilkinson A, Mikolasch T, Brij S, Jenkins HS, Kamath AV, Pasteur M, Hopkins TG, Wason J, Marciniak SJ. Non interventional statistical comparison of BTS and CHEST guidelines for size and severity in primary pneumothorax. *European Respiratory Journal* 2015;45(6):1731-4.
14. Loutsios C, Farahi N, Porter L, **Lok LSC**, Peters AM, Condliffe AM, Chilvers ER. Biomarkers of eosinophilic inflammation in asthma. *Expert Review of Respiratory Medicine* 2014;8(2):143-50.
15. **Lok LSC**. The hazards of smoking in women: results from the Million Women Study. *Thorax* 2014;69(1):4.
16. **Lok SCL**, Courtney ED, Tang TY, Bekdash B. Delayed onset of recurrent episodes of acute pseudo-obstruction in a patient with mitochondrial myopathy. *International Journal of Colorectal Disease* 2009;24(8):991-2.

Other qualifications

- 2001 Licentiate of the Royal Schools of Music (LRSM) in piano performance
- 2000 Young Enterprise UK Examination
- 1997 Grade 8 Music Theory, Royal Schools of Music
- 1997 LCCI Book-keeping First Level (Pass with Distinction)