

## Alasdair J. Scott, BSc (Hons), MBBS, MRCS, PhD

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**Current Clinical Appointment:** ST6: Colorectal Surgery, West Middlesex University Hospital, London

**Current Academic Appointment:** NIHR Clinical Lecturer, Imperial College London

### Previous Clinical Appointments

2018 – 2019	ST5: Colorectal Surgery, St Mary's Hospital and General and Emergency Surgery, Northwick Park Hospital
2017 – 2018	ST4: General and Vascular Surgery, Watford Hospital, London and Breast, Endocrine and General Surgery at Hillingdon Hospital, London
2016 – 2017	ACF/ST3: General Surgery, Barnet Hospital, London and Colorectal Surgery, St Mary's Hospital
2015 – 2016	ACF/CT2: Colorectal Surgery at Hillingdon Hospital, London and St Mary's Hospital
2014 – 2015	ACF/CT1: Oncoplastic Breast Surgery, Vascular Surgery and Intensive Care at ICH NHS Trust, London
2013 – 2014	Academic Foundation 2: Upper GI Surgery, Microbiology and Trauma and Orthopaedics at Imperial College Healthcare NHS Trust, London
2012 – 2013	Academic Foundation 1: Colorectal Surgery, Orthogeriatrics, Acute Medicine and Cardiology at West Middlesex University Hospital, London

### Memberships

1. Royal College of Surgeons of England
2. American Society of Colon and Rectal Surgeons
3. Medical Defence Union

### Professional Exams and Courses

1. Intuitive da Vinci Si System Training as First Assistant, Jan 2019
2. Intermediate Skills in Laparoscopic Surgery, Jun 2018
3. Basic Skills in Colonoscopy, Jun 2017
4. Clinical Leadership and Management Programme Tier 1, Jan 2017
5. Level 1 Emergency Ultrasound, Mar 2016
6. Care of the Critically Ill Surgical Patient, Nov 2015
7. Advanced Trauma Life Support, Sept 2015
8. Intercollegiate MRCS, Oct 2013
9. Basic Surgical Skills, Sept 2013
10. Advanced Life Support Course, May 2013

### Peer Reviewed Publications

1. Markar et al. Changing the paradigm of surgical research during a pandemic. *Annals of Surgery* 2020, May
2. **Scott AJ**, Alexander JL, Merrifield CM, Kinross JM, Marchesi JR et al. *The International Cancer Microbiome Consortium Consensus Statement on the Role of the Human Microbiome in Carcinogenesis*. *Gut* 2019, May
3. **Scott AJ**, Merrifield CA, Younes JA and Pekelharing EP. *Pre-, pro- and synbiotics in cancer prevention and treatment—a review of basic and clinical research*. *Ecancermedicalscience* 2018; 12: 869
4. **Scott AJ**, Mason SE, Langdon AJ, Patel, B, Mayer E, Moorthy K, Purkayastha S. *Prospective Risk Factor Analysis for the Development of Post-Operative Urinary Retention Following Ambulatory General Surgery*.

WJS 2018

5. Pouncey AL, **Scott AJ**, Alexander JL, Marchesi J, Kinross JM. *Gut microbiota, chemotherapy, and the host: the influence of the gut microbiota on cancer treatment*. *Ecancermedalscience* 2018; 12: 868
6. Alexander JL, **Scott AJ**, Pouncey AL, Marchesi J, Kinross JM, Teare JT. *Colorectal Carcinogenesis: an archetype of gut microbiota – host interaction*. *Ecancermedalscience*, 2018; 12: 865
7. **Scott AJ** (Local Coordinator). ISOS Study Group. *The surgical safety checklist and patient outcomes after surgery: a prospective observational cohort study, systematic review and meta-analysis*. *Br J Anaesth*. 2018 Jan;120(1):146-155.
8. **Scott AJ**, Merrifield CA, Alexander JL, Marchesi JR, Kinross JM. *Highlights from the inaugural International Cancer Microbiome Consortium Meeting, 5-6 September 2017, London UK*. *ECancermedalscience*. 2017 Dec; 11: 791.
9. **Scott AJ** (Local Coordinator). ISOS Study Group. *In-hospital clinical outcomes after upper gastrointestinal surgery: Data from an international observational study*. *Eur J Surg Oncol*. 2017 Dec;43(12):2324-2332.
10. **Scott AJ** (Local Coordinator). ISOS Study Group. *Use of failure-to-rescue to identify international variation in postoperative care in low-, middle- and high-income countries: a 7-day cohort study of elective surgery*. *Br J Anaesth*. 2017 Aug 1;119(2):258-266.
11. Kinross J, Mirnezami R, Alexander JL, Brown R, **Scott AJ** et al. *A prospective analysis of mucosal microbiome-metabonome interactions in colorectal cancer using a combined MAS 1HNMR and metataxonomic strategy*. *Sci Rep*. 2017 Aug 21;7(1):8979
12. **Scott AJ** (Local Coordinator). ISOS Study Group. *Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries*. *Intensive Care Med*. 2017 Jul;43(7):971-979.
13. Maurice JB, Patel A, **Scott AJ** et al. *Prevalence and risk factors of Non-Alcoholic Fatty Liver Disease in HIV-monoinfection: a systematic Review and Meta- Analysis*. *AIDS*. 2017 Jul 17;31(11):1621-1632
14. Wolfer AM, **Scott AJ**, Rueb C et al. *Longitudinal analysis of serum oxylipin profile as a novel descriptor of the inflammatory response to surgery*. *J Transl Med*. 2017 Apr 26;15(1):83.
15. **Scott AJ** (Local Coordinator). UK National Surgical Research Collaborative. *Multicentre observational study of adherence to Sepsis Six Guidelines in emergency general surgery*. *Br J Surg*. 2017 Jan;104(2)
16. **Scott AJ** (Local Coordinator). ISOS Study Group. *Global patient outcomes after elective surgery: Prospective cohort study in 27 low, middle and high income countries*. *Brit J Anaes*. 2017 May 12.
17. Alexander JL, Gildea L, Balog J, Speller A, McKenzie J, Muirhead L, **Scott AJ** et al. *A novel methodology for in vivo endoscopic phenotyping of colorectal cancer based on real-time analysis of the mucosal lipidome: a prospective observational study of the iKnife*. *Surg Endosc*. 2017 Mar;31(3):1361-1370
18. **Scott AJ**, St John ER et al. *Completion of hand-written surgical consent forms is frequently suboptimal and could be improved by using electronically-generated, procedure-specific forms*. *Surgeon*. 2017 Aug;15(4):190-195.
19. Tan A, Ashrafian H, **Scott AJ** et al. *Robotic surgery: disruptive innovation or unfulfilled promise? A systematic review and meta-analysis of the first 30 years*. *Surg Endosc*. 2016 Oct;30(10):4330-52.

20. **Scott AJ**, Bicknell CD. *Contemporary management of Acute Type B Dissection*. Eur J Vasc Endovasc Surg. 2016 Mar;51(3):452-9.
21. Mason SE, **Scott AJ** et al. *Patient-related risk factors for urinary retention following ambulatory general surgery: a systematic review and meta-analysis*. Am J Surg. 2016 Jun;211(6):1126-34.
22. O'Callaghan D, O'Dea KP, **Scott AJ** et al. *Monocyte tumor necrosis factor-alpha converting enzyme catalytic activity and substrate shedding in sepsis and non-infectious systemic inflammation*. Crit Care Med 2015, ePub
23. **Scott AJ**, Mason SE, Arunakirinathan M et al. *Risk-stratification by the Appendicitis Inflammatory Response Score to guide decision-making in patients with suspected appendicitis*. Br J Surg 2015 Apr;102(5):563-72.
24. **Scott AJ** (Local Collaborator). STARSurg Collaborative Group. *Impact of post-operative non-steroidal anti-inflammatory drugs on adverse events after gastrointestinal surgery*. Br J Surg, 2014 Oct; 101(11):1413-2
25. Wong-Taylor L, **Scott AJ**, Burgess, H. *Massive TB psoas abscess*. BMJ Case Rep. May 2013.
26. **Scott AJ**. Davies SJ, Vassiliu P. *Development of a tension pneumothorax despite intercostal drain insertion*. BMJ Case Rep. Dec 2012.
27. **Scott AJ**, O'Dea KP, O'Callaghan D et al. *Reactive oxygen species and p38 mitogen-activated protein kinase mediate tumor necrosis factor  $\alpha$ -converting enzyme (TACE/ADAM-17) activation in primary human monocytes*. J Biol Chem. Oct 2011; 286(41): 35466-76.
28. Handy JM, **Scott AJ**, Cross AM et al. *HLA-DR Expression and differential monocyte subset trafficking following low to intermediate risk surgery*. Anaesthesia Jan 2010; 6(1): 27-35

#### Selected Oral Presentations

1. **Scott AJ**, Ladwa N, McDonald J, Alexander, JL, Marchesi J, Kinross JM. *16S rRNA taxonomic analysis of the gut mucosal microbiome and its association with the development of complications following colorectal surgery*. ASCRS Annual Scientific Meeting, Cleveland, USA, 1-5 June 2019
2. **Scott AJ**, Alexander AL, Marchesi J, Kinross J. *Modification of the appendix microbiome in acute appendicitis and colon adenocarcinoma*. Digestive Disease Week, Chicago, USA, 8-10 May, 2017
3. **Scott AJ**, Mason SE, Langdon A et al. *Risk-factors for the development of post-operative urinary retention after day-case general surgery – a prospective study*. ASGBI Annual Congress, Glasgow, UK, 3-5 May, 2017
4. Alexander JL, Mroz A, Perdones-Monteiro A, **Scott AJ** et al. *Targeted chemical analysis of the colon cancer microbiome using desorption electrospray ionization mass spectrometry imaging (DESI-MSI)*. United European Gastroenterology Week, Vienna, Austria, 15-19 Oct, 2016
5. Alexander JL, Gildea L, Balog J, Speller A, Mroz A, **Scott AJ** et al. *Development of a novel Rapid Evaporative Ionisation Mass Spectrometry (REIMS) platform 'iEndoscope' for in vivo chemical histology during colonoscopy*. American Society for Mass Spectrometry Annual Conference, San Antonio, USA, 5-9 Jun, 2016
6. Alexander JL, **Scott AJ** et al. *Mass spectrometry imaging (MSI) of microbiome-metabolome interactions in colorectal cancer*. Gastroenterology Apr 2016; 150: S23. Digestive Disease Week, San Diego, USA, 21-24 May, 2016
7. Alexander JL, Balog J, **Scott AJ** et al. *A novel methodology for in vivo endoscopic phenotyping of colorectal cancer based on real time analysis of the mucosal lipidome: A prospective observational study of the iknife*. SAGES Annual Meeting 2016, Boston, USA, 16-19 Mar, 2016 (Winner of Gerald Marks Rectal Cancer Award)
8. **Scott AJ**, St John ER et al. *OpInform.com – an electronic consent platform that may improve suboptimal consent practice*. BAPRAS Winter Meeting, Birmingham, UK, 25<sup>th</sup> Nov, 2015 (Awarded 1<sup>st</sup> Prize)

### Selected Poster Presentations

1. **Scott AJ**, Nachiappan N, Alexander JL, Marchesi J, Kinross JM. *16S rRNA Taxonomic Analysis of the Appendix Bacterial Microbiome in Health and Disease*. ASCRS Annual Scientific Meeting, Cleveland, USA, 1-5 June 2019
2. **Scott AJ**, Lewis M, Gomez-Romero M et al. *Longitudinal analysis of urinary metabolic phenotype after colorectal resection demonstrates temporal evolution*. ASCRS Annual Scientific Meeting, Seattle, USA, 10-14 June 2017
3. Alexander JL, Perdonés-Montero A, Cameron S, **Scott AJ** et al. *A Prospective Multi-National Study of the Colorectal Cancer Mucosal Microbiome Reveals Specific Taxonomic Changes Indicative of Disease Stage and Prognosis*. Digestive Disease Week, Chicago, USA, 8-10 May, 2017
4. **Scott AJ**, Alexander JA, McDonald J et al. *Direct isolation of oral- and tumour-derived Fusobacterium species in patients with colorectal neoplasia*. United European Gastroenterology Week, Vienna, Austria, 15-19 Oct, 2016
5. St John ER, **Scott AJ** et al. *A comparison between traditional handwritten and computer generated (OpInform.com) surgical consent forms*. ESJO May 2016; 42(5);S54 ABS Annual Meeting, Manchester, UK, 16-17 May, 2016
6. Alexander JL, Gildea J, Rossi M, **Scott AJ** et al *Rapid Evaporative Ionisation Mass Spectrometry (REIMS) in Endoscopy: Preparing for Clinical Translation*. MSACL Annual Meeting, Palm Springs, USA, 21-25 Feb, 2016
7. **Scott AJ**, St. John ER, Collins E et al. *Procedure-specific electronic consent forms (OpInform.com) reduces errors in consenting practice for breast surgery*. Association of Breast Surgery Annual Conference, Bournemouth, UK, 15-16 Jun, 2015

### Education and Teaching Experience

2010 – 2017	Lecturer on Imperial College School of Medicine (ICSM) Undergraduate Medicine Course
2015	Faculty on RCS Basic Surgical Skills Course, Hillingdon Hospital
2012 – 2015	Clinical Tutoring and Lecturing ICSM Students
2012 – 2014	Lecturer at ICSM, Society of Research and Academia National Conferences
2010 – 2015	Lecturer on ICSM Surgery and Anaesthesia BSc Course
2010 – 2014	Lecturer on ICSM Post-Graduate Medicine Course
2013	Lecturer for Doctor's Academy Anatomy Courses
2013	Curriculum assessment for Lee Kong Chian School of Medicine, Singapore
2008 – 2009	Problem Based Learning Tutor on ICSM Undergraduate Course
2007 – 2010	Anatomy Demonstrator on ICSM Undergraduate Anatomy Course

### Grants

2017	Imperial NIHR Biomedical Research Centre Grant – £7960
2015	Imperial NIHR Biomedical Research Centre Grant – £2000
2013	Imperial NIHR Biomedical Research Centre Grant – £1000
2008	Westminster Medical School Research Trust Travel Grant – £500

### Postgraduate Awards

1. SAGES Annual Meeting 2016, Gerald Marks Rectal Cancer Award
2. BAPRAS Winter Meeting 2015, winner of "Process Innovation Prize"
3. British Association of Day Surgery Scientific Meeting Poster Competition Prize 2014 (2<sup>nd</sup> prize)

4. Local Teaching Hero at West Middlesex University Hospital 2013
5. Quality Improvement Project Award at West Middlesex University Hospital 2013 (2<sup>nd</sup> Prize)
6. Doctors Academy Surgical Education Award for MRCS Courses 2013

**Selected Undergraduate Awards (Imperial College London)**

1. Winner of University of London Gold Medal 2012
2. Golding Medal Prize 2012: 2<sup>nd</sup> Best overall performance in Finals
3. HWC Vines Prize 2011: Best performance in Pathology
4. Abrahams Prize 2011: Best performance in Histopathology
5. Richard Hebb Prize 2011: Best performance in Haematology
6. Winner of Peter Philip Urology Essay Prize 2010

**Education**

<b>MBBS</b> 2012	with Distinction in Medical Sciences, Clinical Science and Clinical Practice Imperial College School of Medicine, Imperial College London, UK
<b>PhD</b> 2010	Clinical Medicine Research (Surgery and Cancer) Section of Academic Anaesthetics, Pain Medicine and Intensive Care, Imperial College London, UK Doctoral thesis: <i>"The regulation of tumour necrosis factor-<math>\alpha</math> converting enzyme (TACE/ADAM17) during acute inflammation."</i>
<b>BSc</b> 2007	Surgery and Anaesthesia (First Class Honours) Imperial College School of Medicine, Imperial College London, UK
<b>A Levels</b> 2003	Biology (A), Chemistry (A), Maths (A), Spanish (A) Winchester College, Winchester, UK
<b>IGCSEs</b> 2001	Chemistry (A*), Maths (A*), Physics (A), Spanish (A*), French (A*), Latin (A*), English (A) Winchester College, Winchester, UK

**Extra-Curricular Activities / Achievements**

<b>Sailing</b>	I'm a keen yachtsman with over 300nm experience. I hold an RYA Day Skipper Qualification (2019).
<b>Golf</b>	I'm an enthusiastic golfer and play weekly
<b>Diving</b>	I hold a PADI Advanced Open Water scuba diving qualification (2012).
<b>Cycling</b>	I enjoy recreational cycling and recently cycled Mont Ventoux, the most fabled climb in the Tour de France.