

Nick Wright – curriculum vitae

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Nationality: British

Education &

Qualifications:

1985 DSc, University of Newcastle-upon-Tyne
1979 MA, University of Oxford, UK Ph.
1975 PhD University of Newcastle-upon-Tyne,
1973 MD, University of Newcastle upon Tyne
1965 MB BS, Durham, UK

Employment History:

2018-present Professor Emeritus, Barts Cancer Institute

2013 – 2018 Centre Lead, Centre for Tumour Biology,
Barts Cancer Institute, Queen Mary University of London.

1988 – 2011 Group Leader, Histopathology Unit, Cancer
Research UK London Research Institute, UK

2001-2011 Warden, Barts and the London, Queen Mary's
School of Medicine and Dentistry, UK

2001–Present Professor of Histopathology, Barts and the
London, Queen Mary University of London, UK; Honorary
Consultant Pathologist, Barts Health NHS Trust; Visiting
Chairs at University College London and University of Oxford

1997–2000 Deputy Principal and Vice-Principal for Research,
Imperial College School of Medicine, UK

1996–1997 Dean, Royal Postgraduate Medical School, UK

1988-1996 Director, Clinical Sciences, ICRF, UK

1980-2000 Professor of Histopathology, Royal Postgraduate Medical School, UK; Director of Histopathology, Hammersmith and Queen Charlotte's SHA, UK; Honorary Consultant Pathologist, Hammersmith and Queen Charlotte's SHA.

1997-1979 Nuffield Reader in Pathology, University of Oxford, UK; Honorary Consultant Pathologist, Oxford University Hospital Group, UK; Fellow, Green College, UK

1975-1976 Senior Lecturer in Pathology, University of Newcastle-upon Tyne, UK; Honorary Consultant Pathologist, Newcastle University Hospitals Group, UK

1971-1975 Lecturer in Pathology, University of Newcastle-upon-Tyne, UK

Membership of Professional Bodies/Learned Societies

1986 Fellow, Royal College of Pathologists

1998 Fellow, Academy of Medical Sciences

1999 Fellow, Royal College of Surgeons

2001 Fellow, Royal College of Physicians

2000 - 2006 President, Pathological Society of Great Britain and Ireland

2000 – 2003 President, British Society for Gastroenterology

Elected Member, Council of the Royal College of Pathologists on six occasions.

Recent Membership of Review/Grant Committees

1997 - 2017 Chairman, Scientific Committee, British Skin Diseases Research Trust

2011- 2014 Chairman, Kings Challenge Fund Research Committee **2012 -**

Present Member, Beaston Institute Scientific Committee

1997 – 2001 Member of Council, Institute of Cancer Research

2013 University of Hong Kong Research Assessment Exercise 2014 – Health Sciences Panel Member

1999-2004 Trustee and Member of Scientific Committee, Digestive Diseases Foundation

2008 Member, Research Assessment Exercise Sub-Panel 5 (Laboratory Subjects)

Member, Site Review Committee for several MRC and CR-UK Units (e.g. Human Genetics Unit at Edinburgh, Ponder Unit in Cambridge)

Recent Editorial Boards

1999-2003 Associate Editor, Gut

2000– Present Editorial Board, Journal of Pathology
2000 – Present Editorial Board, International Journal of Experimental Pathology
2017-Present Associate Editor, Gastroenterology

Recent Advisory Boards etc

2005 – Present Advisory Committee, Institut Municipal d'Investigació Mèdica (IMIM), Spain
2004 - Present External Advisory Board, INSERM, France (2004-present)
2011 – Present Chairman, University of East Anglia Clinical Academic Initiative Scientific Advisory Board
Trustee, Ovarian Cancer Action
1999-2017 Chairman, Scientific Committee, British Skin Diseases Research Trust
2011-2014 Chairman, Kings Health Partners R&D Challenge Fund Scientific Committee
2012-2019 Chairman, Bowel & Cancer Research Committee
2014-2017 Chairman, Scientific Committee, Prostate Cancer UK
2016-2022 Associate Editor, Gastroenterology
Editorial Boards of Gastroenterology, Journal of Pathology, International Journal of Experimental Pathology and Cell Proliferation.

Recent Prizes etc

2004 Honorary Membership of the Pathological Society of Great Britain and Ireland
2005 Honorary Membership of the British Society for Gastroenterology
2005 Knighted for Services to Medicine
2007 DSc (Hon) University of Hertfordshire
2008 DSc (Hon) University of Durham
2008 MD (Hon) University of St Andrews
2010 Fellow of the American Gastroenterological Association
2011 Fellow of Faculty of Medicine, Imperial College
2011 DSc (Hon) University of Bristol
2011 Gustav Born Lifetime Achievement Award in Science
2012 LLD (Hon) University of Dundee
2013 Honorary Membership of the British Division of the International Academy of Pathology
2015 DSc (Hon) University of Aston
2017 DSc (Hon) Imperial College, London
2017 Fellow of the Royal Canadian College of Physicians and Surgeons (Hon)

Grants

From 1988-2011 my research was supported by the ICRF (now Cancer Research UK) at the London Research Institute on a quinquennial basis. I now have a Programme Grant from CRUK from 2012-2018.

Publications – Peer-reviewed papers

1. Nicola Tempest, Marnix Jansen, Ann-Marie Baker, Christopher J Hill, Mike Hale, Derek Magee, Darren Treanor, Nicholas A Wright, Dharani K Hapangama. Histological 3D reconstruction and in vivo lineage tracing of the human endometrium. *J Pathol* 2020 Aug;251(4):440-451. doi: 10.1002/path.5478. Epub 2020 Jun 30.
2. Baker AM, Gabbutt C, Williams MJ, Cereser B, Jawad N, Rodriguez-Justo M, Jansen M, Barnes CP, Simons BD, McDonald SA, Graham TA, **Wright NA**. Crypt fusion as a homeostatic mechanism in the human colon. *Gut*. 2019 Mar 14. pii: gutjnl-2018-317540. doi: 10.1136/gutjnl-2018-317540.
3. Baker AM, Cross W, Curtius K, Al Bakir I, Choi CR, Davis HL, Temko D, Biswas S, Martinez P, Williams MJ, Lindsay JO, Feakins R, Vega R, Hayes SJ, Tomlinson IPM, McDonald SAC, Moorghen M, Silver A, East JE, **Wright NA**, Wang LM, Rodriguez-Justo M, Jansen M, Hart AL, Leedham SJ, Graham TA. Evolutionary history of human colitis-associated colorectal cancer. *Gut*. 2018 Jul 10. pii: gutjnl-2018-316191. doi: 10.1136/gutjnl-2018-316191. [Epub ahead of print]
4. Tempest N, Baker AM, **Wright NA**, Hapangama DK. Does human endometrial LGR5 gene expression suggest the existence of another hormonally regulated epithelial stem cell niche? *Hum Reprod*. 2018 Jun 1;33(6):1052-1062
5. Sundaresan S, Meininger CA, Kang AJ, Photenhauer AL, Hayes MM, Sahoo N, Grembecka J, Cierpicki T, Ding L, Giordano TJ, Else T, Madrigal DJ, Low MJ, Campbell F, Baker AM, Xu H, **Wright NA**, Merchant JL. Gastrin Induces Nuclear Export and Proteasome Degradation of Menin in Enteric Glial Cells *Gastroenterology*. 2017 Dec;153(6):1555-1567.e15. doi:
6. Moad M, Hannezo E, Buczacki SJ, Wilson L, El-Sherif A, Sims D, Pickard R, **Wright NA**, Williamson SC, Turnbull DM, Taylor RW, Greaves L, Robson CN, Simons BD, Heer R. Multipotent Basal Stem Cells, Maintained in Localized Proximal Niches, Support Directed Long-Ranging Epithelial Flows in Human Prostates. *Cell Rep*. 2017 Aug 15;20(7):1609-1622. doi: 10.1016/j.celrep.2017.07.061.
7. Cereser B, Jansen M, Austin E, Elia G, McFarlane T, van Deurzen CH, Sieuwerts AM, Daidone MG, Tadrous PJ, **Wright NA**, Jones L, McDonald SA. Analysis of clonal expansions through the normal and premalignant human breast epithelium reveals the presence of luminal stem cells. *J Pathol*. 2018 Jan;244(1):61-70. doi: 10.1002/path.4989. Epub 2017 Nov 23
8. Baker AM, Huang W, Wang XM, Jansen M, Ma XJ, Kim J, Anderson CM, Wu X, Pan L, Su N, Luo Y, Domingo E, Heide T, Sottoriva A, Lewis A, Beggs AD, **Wright**

- NA, Rodriguez-Justo M, Park E, Tomlinson I, Graham TA. Robust RNA-based in situ mutation detection delineates colorectal cancer subclonal evolution. *Nat Commun.* 2017 Dec 8;8(1):1998. doi: 10.1038/s41467-017-02295
9. Baker AM, Van Noorden S, Rodriguez-Justo M, Cohen P, **Wright NA**, Lampert IA. Distribution of the c-MYC gene product in colorectal neoplasia. *Histopathology.* 2016 Aug;69(2):222-9.
 10. Lavery DL, Martinez P, Gay LJ, Cereser B, Novelli MR, Rodriguez-Justo M, Meijer SL, Graham TA, McDonald SA, **Wright NA**, Jansen M. Evolution of oesophageal adenocarcinoma from metaplastic columnar epithelium without goblet cells in Barrett's oesophagus. *Gut.* 2016 Jun;65(6):907-13.
 11. Baker AM, Graham TA, Elia G, **Wright NA**, Rodriguez-Justo M. Characterization of LGR5 stem cells in colorectal adenomas and carcinomas. *Sci Rep.* 2015 Mar 2;5:8654. doi: 10.1038/srep08654.
 12. Yen TH, Alison MR, Goodlad RA, Otto WR, Jeffery R, Cook HT, **Wright NA**, Poulson R. Epidermal growth factor attenuates tubular necrosis following mercuric chloride damage by regeneration of indigenous, not bone marrow-derived cells. *J Cell Mol Med.* 2015 Feb;19(2):463-7
 13. Baker AM, Cereser B, Melton S, Fletcher AG, Rodriguez-Justo M, Tadrous PJ, Humphries A, Elia G, McDonald SA, **Wright NA**, Simons BD, Jansen M, Graham TA. Quantification of crypt and stem cell evolution in the normal and neoplastic human colon. *Cell Rep.* 2014 Aug 21;8(4):9407
 14. Zeki SS, Haidry R, Justo-Rodriguez M, Lovat LB, **Wright NA**, McDonald SA. Squamous cell carcinoma after radiofrequency ablation for Barrett's dysplasia. *World J Gastroenterol.* 2014 Apr 21;20(15):4453-6
 15. Lavery DL, Nicholson AM, Poulson R, Jeffery R, Hussain A, Gay LJ, Jankowski JA, Zeki SS, Barr H, Harrison R, Going J, Kadirkamanathan S, Davis P, Underwood T, Novelli MR, Rodriguez-Justo M, Shepherd N, Jansen M, **Wright NA**, McDonald SA. The stem cell organisation, and the proliferative and gene expression profile of Barrett's epithelium, replicates pyloric-type gastric glands. *Gut.* 2014 Feb 18. doi: 10.1136/gutjnl-2013-306508. [Epub ahead of print]
 16. Pipinikas CP, Kiropoulos TS, Teixeira VH, Brown JM, Varanou A, Falzon M, Capitanio A, Bottoms SE, Carroll B, Navani N, McCaughan F, George JP, Giangreco A, **Wright NA**, McDonald SA, Graham TA, Janes SM. Cell migration leads to spatially distinct but clonally related airway cancer precursors. *Thorax.* 2014 Jun;69(6):548-57.

17. Zeki SS, Haidry R, Justo-Rodriguez M, Lovat LB, **Wright NA**, McDonald SA. Squamous cell carcinoma after radiofrequency ablation for Barrett's dysplasia. *World J Gastroenterol*. 2014 Apr 21;20(15):4453-6.
18. Teixeira VH, Nadarajan P, Graham TA, Pipinikas CP, Brown JM, Falzon M, Nye E, Poulson R, Lawrence D, **Wright NA**, McDonald S, Giangreco A, Simons BD, Janes SM. Stochastic homeostasis in human airway epithelium is achieved by neutral competition of basal cell progenitors. *Elife*. 2013 Oct 22;2:e00966. doi: 10.7554/eLife.00966.
19. Zeki SS, Haidry R, Graham TA, Rodriguez-Justo M, Novelli M, Hoare J, Dunn J, **Wright NA**, Lovat LB, McDonald SA Clonal Selection and Persistence in Dysplastic Barrett's Esophagus and Intramucosal Cancers After Failed Radiofrequency Ablation. 2013 Aug 13. PMID: 23939625 [PubMed - in process]
20. Wada T, Ishimoto T, Seishima R, Tsuchihashi K, Yoshikawa M, Oshima H, Oshima M, Masuko T, **Wright NA**, Furuhashi S, Hirashima K, Baba H, Kitagawa Y, Saya H, Nagano O. Functional role of CD44v-xCT system in the development of spasmolytic polypeptide-expressing metaplasia. *Cancer Sci*. 2013 Oct;104(10):1323-9.
21. Humphries A, Cereser B, Gay LJ, Miller DS, Das B, Gutteridge A, Elia G, Nye E, Jeffery R, Poulson R, Novelli MR, Rodriguez-Justo M, McDonald SA, **Wright NA**, Graham TA. Lineage tracing reveals multipotent stem cells maintain human adenomas and the pattern of clonal expansion in tumor evolution. *Proc Natl Acad Sci U S A*. 2013 Jul 2;110(27):E2490-9.
22. Zeki S, Khan S, **Wright NA**, Graham TA, Odze RD, Rodriguez-Justo M, McDonald SA. Crypt dysplasia in Barrett's oesophagus shows clonal identity between crypt and surface cells. *J Pathol*. 2013 May 21. doi: 10.1002/path.4211. [Epub ahead of print]
23. Pan Q, Nicholson AM, Barr H, Harrison LA, Wilson GD, Burkert J, Jeffery R, Alison MR, Looijenga L, Lin WR, McDonald SA, **Wright NA**, Harrison R, Peppelenbosch MP, Jankowski JA. Identification of Lineage-Uncommitted, Long-Lived, Label-Retaining Cells in Healthy Human Esophagus and Stomach, and in Metaplastic Esophagus. *Gastroenterology*. 2012 Dec 22. doi:pii: S0016-5085(12)01848-3. 10.1053/j.gastro.2012.12.022. [Epub ahead of print]
24. Lu L, Teixeira VH, Yuan Z, Graham TA, Endesfelder D, Kolluri K, Al-Juffali N, Hamilton N, Nicholson AG, Falzon M, Kschischo M, Swanton C, **Wright NA**, Carroll B, Watt FM, George JP, Jensen KB, Giangreco A, Janes SMLRIG1 regulates cadherin-dependent contact inhibition directing epithelial homeostasis and pre-invasive squamous cell carcinoma development. *Journal of Pathology* 2013 Mar;229(4):608-20

25. Alferez DG, Goodlad RA, Odedra R, Sini P, Crafter C, Ryan AJ, Wedge SR, **Wright NA**, Anderson E, Wilkinson RW Inhibition of Aurora-B kinase activity confers antitumor efficacy in preclinical mouse models of early and advanced gastrointestinal neoplasia. *International Journal of Oncology* 2012 Jul 31. Doi 10.3892/ijo.2012.1580.
26. Wong VW, Stange DE, Page ME, Buczacki S, Wabik A, Itami S, van de Wetering M, Poulson R, **Wright NA**, Trotter MW, Watt FM, Winton DJ, Clevers H, Jensen KB. Lrig1 controls intestinal stem-cell homeostasis by negative regulation of ErbB signalling. *Nature Cell Biology*. 2012 Mar 4;14(4):401-8. doi: 10.1038/ncb2464.
27. Guppy NJ, El-Bahrawy ME, Kocher HM, Fritsch K, Qureshi YA, Poulson R, Jeffery RE, **Wright NA**, Otto WR, Alison MR Trefoil factor family peptides in normal and diseased human pancreas.. *Pancreas*. 2012 Aug;41(6):888-96
28. Nicholson AM, Graham TA, Simpson A, Humphries A, Burch N, Rodriguez-Justo M, Novelli M, Harrison R, **Wright NA**, McDonald SA, Jankowski JA. Barrett's metaplasia glands are clonal, contain multiple stem cells and share a common squamous progenitor. *Gut*. 2012 Oct;61(10):1380-9. doi: 10.1136/gutjnl-2011-301174.
29. Stringer EJ, Duluc I, Saandi T, Davidson I, Bialecka M, Sato T, Barker N, Clevers H, Pritchard CA, Winton DJ, **Wright NA**, Freund JN, Deschamps J, Beck F. Cdx2 determines the fate of postnatal intestinal endoderm. *Development*. 2012 Feb;139(3):465-74
30. Galandiuk S, Rodriguez-Justo M, Jeffery R, Nicholson AM, Cheng Y, Oukrif D, Elia G, Leedham SJ, McDonald SA, **Wright NA**, Graham TA. Field cancerization in the intestinal epithelium of patients with Crohn's ileocolitis. *Gastroenterology*. 2012 Apr;142(4):855-864.
31. March HN, Rust AG, **Wright NA**, ten Hoeve J, de Ridder J, Eldridge M, van der Weyden L, Berns A, Gadiot J, Uren A, Kemp R, Arends MJ, Wessels LF, Winton DJ, Adams DJ. Insertional mutagenesis identifies multiple networks of cooperating genes driving intestinal tumorigenesis. *Nature Genetics* 2011 Nov 6;43(12):1202-9. doi: 10.1038/ng.990.
32. Lee CY, Jeffery R, Hutchinson G, Alison MR, Poulson R, **Wright NA**, Otto WR Bone marrow cells in murine colitis: multi-signal analysis confirms pericryptal myofibroblast engraftment without epithelial involvement.. *PLoS One*. 2011;6(10):e26082. doi: 10.1371/journal.pone.0026082. Epub 2011 Oct 13.
33. Gaisa NT, Graham TA, McDonald SA, Poulson R, Heidenreich A, Jakse G, Knuechel R, **Wright NA**. Clonal architecture of human prostatic epithelium in benign and malignant conditions. *Journal of Pathology* 2011 Oct;225(2):172-80
34. Gaisa NT, Graham TA, McDonald SAC, Cañadillas-Lopez S, Poulson P, Heidenreich A, Jakse G, Tadrous PJ, R Knuechel R, **Wright NA**. The human urothelium consists of multiple clonal units, each maintained by a stem cell. *Journal of Pathology* 2011 Oct;225(2):163-71..

35. Hunziker L, Aznar Benitah S, Braun KM, Jensen K, McNulty K, Butler C, Potton E, Nye E, Boyd R, Laurent G, Glogauer M, **Wright NA**, Watt FM, Janes SM. Rac1 deletion causes thymic atrophy. *PLoS One*. 2011 Apr 29;6(4):e19292.
36. Gutierrez-Gonzalez L, Graham TA, Rodriguez-Justo M, Leedham SJ, Novelli M, Gay LJ, Ventayol-Garcia T, Green A, Stoker DL, Bamba S, Yamada E, Kishi Y, Harrison R, Jankowski JA, **Wright NA**, McDonald SA. The clonal origins of dysplasia from intestinal metaplasia in the human stomach. *Gastroenterology*. 2011 Apr;140(4):1251-1260
37. Graham TA, Humphries A, Sanders T, Rodriguez-Justo MN, Tadrous PJ, Nicholson A, Novelli M, Leedham SJ, McDonald SAC, **Wright NA**. Stem cell dynamics and epigenetic drift restrict the use of methylation patterns as markers of clonal expansion in the human colon. *Gastroenterology* Apr;140(4):1241-1250
38. Kallis YN, Robson AJ, Fallowfield JA, Thomas HC, Alison MR, **Wright NA**, Goldin RD, Iredale JP, Forbes SJ. Remodelling of extracellular matrix is a requirement for the hepatic progenitor cell response. *Gut*. 2011 Apr;60(4):525-33.
39. Lewis A, Segditsas S, Deheragoda M, Pollard P, Jeffery R, Nye E, Lockstone H, Davis H, Stamp G, Poulson R, **Wright NA**, Tomlinson IP. Severe polyposis in Apc1322T mice is associated with sub-maximal Wnt signalling and increased expression of the stem cell marker Lgr5. *Gut*. 2010 Dec;59(12):1680-6
40. Alferez DG, Ryan AJ, Goodlad RA, **Wright NA**, Wilkinson RW. Effects of vandetanib on adenoma formation in a dextran sodium sulphate enhanced ApcMIN/+ mouse model *Int J Oncol*. 2010 Oct;37(4):767-72
41. Willis L, Alarcón T, Elia G, Jones JL, **Wright NA**, Tomlinson IP, Graham TA, Page KM. Breast Cancer Dormancy Can Be Maintained by Small Numbers of Micrometastases. *Cancer Res*. 2010 Jun 1;70(11):4310-7. Epub 2010 May 25
42. Goldenring JR, Nam KT, Wang TC, Mills JC, **Wright NA**. Polypeptide-Expressing Metaplasia and Intestinal Metaplasia: Time for Reevaluation of Metaplasias and the Origins of Gastric Cancer. *Gastroenterology*. 2010 Jun;138(7):2207-10, 2210.e1. Epub 2010 May 5.
43. Lin WR, Lim SN, McDonald SA, Graham T, Wright VL, Peplow CL, Humphries A, Kocher HM, **Wright NA**, Dhillon AP, Alison MR. The histogenesis of regenerative nodules in human liver cirrhosis. *Hepatology*. 2010 Mar;51(3):1017-26.
44. Thirlwell C, Will OC, Domingo E, Graham TA, McDonald SA, Oukrif D, Jeffrey R, Gorman M, Rodriguez-Justo M, Chin-Aleong J, Clark SK, Novelli MR, Jankowski

- JA, **Wright NA**, Tomlinson IP, Leedham SJ. Clonality assessment and clonal ordering of individual neoplastic crypts shows polyclonality of colorectal adenomas. *Gastroenterology*. 2010 Apr;138(4):1441-54,
45. Watson AR, Pitchford SC, Reynolds LE, Direkze N, Brittan M, Alison MR, Rankin S, **Wright NA**, Hodivala-Dilke KM. Deficiency of bone marrow beta3-integrin enhances non-functional neovascularization. *J Pathol*. 2010 Mar;220(4):435-45.
46. Nootboom M, Johnson R, Taylor RW, **Wright NA**, Lightowler RN, Kirkwood TB, Mathers JC, Turnbull DM, Greaves LC. Age-associated mitochondrial DNA mutations lead to small but significant changes in cell proliferation and apoptosis in human colonic crypts. *Ageing Cell*. 2010 Feb;9(1):96-9. Epub 2009 Oct 30.
47. Barker N, Huch M, Kujala P, van de Wetering M, Snippert HJ, van Es JH, Sato T, Stange DE, Begthel H, van den Born M, Danenberg E, van den Brink S, Korving J, Abo A, Peters PJ, **Wright NA**, Poulosom R, Clevers H. Lgr5(+ve) stem cells drive self-renewal in the stomach and build long-lived gastric units in vitro. *Cell Stem Cell*. 2010 Jan 8;6(1):25-36.
48. *Fellous TG, McDonald SA, Burkert J, Humphries A, Islam S, De-Alwis NM, Gutierrez-Gonzalez L, Tadrous PJ, Elia G, Kocher HM, Bhattacharya S, Mears L, El-Bahrawy M A methodological approach to tracing cell lineage in human epithelial tissues., Turnbull DM, Taylor RW, Greaves LC, Chinnery PF, Day CP, **Wright NA**, Alison MR. *Stem Cells*. 2009 Jun;27(6):1410-20.
49. Pollard P, Deheragoda M, Segditsas S, Lewis A, Rowan A, Howarth K, Willis L, Nye E, McCart A, Mandir N, Silver A, Goodlad R, Stamp G, Cockman M, East P, Spencer-Dene B, Poulosom R, **Wright NA**, Tomlinson I. The Apc 1322T mouse develops severe polyposis associated with submaximal nuclear beta-catenin expression. *Gastroenterology*. 2009 Jun;136(7):2204-2213.e1-13. Epub 2009 Feb 25
50. Fellous TG, Islam S, Tadrous PJ, Elia G, Kocher HM, Bhattacharya S, Mears L, Turnbull DM, Taylor RW, Greaves LC, Chinnery PF, Taylor G, McDonald SA, **Wright NA**, Alison MR. Locating the stem cell niche and tracing hepatocyte lineages in human liver. *Hepatology*. 2009 May;49(5):1655-63.
51. Gutierrez-Gonzalez L, Deheragoda M, Elia G, Leedham SJ, Shankar A, Imber C, Jankowski JA, Turnbull DM, Novelli M, **Wright NA**, McDonald SA. Analysis of the clonal architecture of the human small intestinal epithelium establishes a common stem cell for all lineages and reveals a mechanism for the fixation and spread of mutations. *Journal of Pathology* 2009 Mar;217(4):489-96.
52. *Leedham SJ, Graham TA, Oukrif D, McDonald SA, Rodriguez-Justo M, Harrison RF, Shepherd NA, Novelli MR, Jankowski JA, **Wright NA**. Clonality, founder mutations, and field cancerization in human ulcerative colitis-associated neoplasia. *Gastroenterology*. 2009 Feb;136(2):542-50.e6. Epub 2008 Nov 7.
53. Segditsas S, Rowan AJ, Howarth K, Jones A, Leedham S, **Wright NA**, Gorman

P, Chambers W, Domingo E, Roylance RR, Sawyer EJ, Sieber OM, Tomlinson IP. APC and the three-hit hypothesis. *Oncogene*. 2009 Jan 8;28(1):146-55. Epub 2008 Oct 6.

54. Milicic A, Harrison L.A, Goodlad, RA, Hardy RG, Nicholson AM, Presz, M, Sieber O, Santander S, Pringle JH, Mandir N, East P, Obszynska J, Sanders S, Piazuolo P, Shaw J, Harrison R, Tomlinson IP, McDonald SAC, **Wright NA**, Jankowski JAZ. Ectopic Expression of P-Cadherin Correlates with Promoter Hypomethylation Early in Colorectal Carcinogenesis and Enhanced Intestinal Crypt Fission In vivo. *Cancer Res* 2008; 68: (19). October 1, 2008 7760-7768.
55. Fang TC, Otto WR, Jeffery R, Hunt T, Alison MR, Cook HT, **Wright NA**, Poulson R. (2008) Exogenous bone marrow cells do not rescue non-irradiated mice from acute renal tubular damage caused by HgCl₂, despite establishment of chimaerism and cell proliferation in bone marrow and spleen. *Cell Proliferation*.**41**:592-606.
56. Fang TC, Otto WR, Rao J, Jeffery R, Hunt T, Alison MR, Cook HT, **Wright NA**, Poulson R. (2008) Haematopoietic lineage-committed bone marrow cells, but not cloned cultured mesenchymal stem cells, contribute to regeneration of renal tubular epithelium after HgCl₂ -induced acute tubular injury. *Cell Proliferation*.**41**:575-91
57. *Leedham SJ, Preston SL, McDonald SA, Elia G, Bhandari P, Poller D, Harrison R, Novelli MR, Jankowski JA, **Wright NA**. (2008) Individual crypt genetic heterogeneity and the origin of metaplastic glandular epithelium in human Barrett's oesophagus. *Gut*.**57**:1041-8
58. Burkert J, Otto W, **Wright N**. (2008) Side populations of gastrointestinal cancers are not enriched in stem cells.*Journal of Pathology*.**214**:564-73.
59. Preston S, Leedham S, Oukrif D, Deheragoda M, Goodlad R, Poulson R, Alison M, **Wright N**, Novelli M. (2008) The development of duodenal microadenomas in FAP patients: the human correlate of the Min mouse. *Journal of Pathology***214**:294-301
60. *McDonald SA, Greaves LC, Gutierrez-Gonzalez L, Rodriguez-Justo M, Deheragoda M, Leedham SJ, Taylor RW, Lee CY, Preston SL, Lovell M, Hunt T, Elia G, Oukrif D, Harrison R, Novelli MR, Mitchell I, Stoker DL, Turnbull DM, Jankowski JA, **Wright NA**. (2008) Mechanisms of field cancerization in the human stomach: the expansion and spread of mutated gastric stem cells. *Gastroenterology*.**134**:500-10.
61. Minegishi Y, Suzuki H, Arakawa M, Fukushima Y, Masaoka T, Ishikawa T, **Wright NA**, Hibi T. (2007) Reduced Shh expression in TFF2-overexpressing lesions of the gastric fundus under hypochlorhydric conditions. *Journal of Pathology*.**213**:161-9.
62. Yen TH, Alison MR, Cook HT, Jeffery R, Otto WR, **Wright NA**, Poulson R. (2007) The cellular origin and proliferative status of regenerating renal parenchyma after mercuric chloride damage and erythropoietin treatment *Cell Proliferation*.**40**:143-56

63. Sullivan PB, Lewindon PJ, Cheng C, Lenehan PF, Kuo BS, Haskins JR, Goodlad RA, **Wright NA**, de la Iglesia FA. (2007) Intestinal mucosa remodeling by recombinant human epidermal growth factor(1-48) in neonates with severe necrotizing enterocolitis. *Journal of Pediatric Surgery***42**:462-9
64. Longman RJ, Poulson R, Corfield AP, Warren BF, **Wright NA**, Thomas MG. (2006) Alterations in the composition of the supramucosal defense barrier in relation to disease severity of ulcerative colitis. *Journal of Histochemistry and Cytochemistry* Dec;**54**(12):1335-48. Epub 2006
65. Otto WR, Patel K, McKinnell I, Evans MD, Lee CY, Frith D, Hanrahan S, Blight K, Blin N, Kayademir T, Poulson R, Jeffery R, Hunt T, **Wright NA**, McGregor F, Oien KA. (2006) Identification of blottin: a novel gastric trefoil factor family-2 binding protein. *Proteomics* **6**:4235-45
66. Bamba S, Lee CY, Brittan M, Preston SL, Direkze NC, Poulson R, Alison MR, **Wright NA**, Otto WR. (2006) Bone marrow transplantation ameliorates pathology in interleukin-10 knockout colitic mice. *Journal of Pathology*. **209**:265-73
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68. *Direkze NC, Jeffery R, Hovalala-Dilke K, Hunt T, Playford RJ, Elia G, Poulson R, **Wright NA**, Alison MR (2006) Bone marrow-derived stromal cells express lineage-related messenger RNA species. *Cancer Research* **66**: 1265-9
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