

1. Personal details

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2. Education

Sir James Smith's School, Camelford, Cornwall	1970-1976
University of Cambridge, Emmanuel College	1976-1982
University of Cambridge, Clinical School	1982-1985

3. Degrees

BA (1st class honours, Natural and Medical Sciences)	Cambridge 1979
MPhil (Biochemistry)	Cambridge 1980
PhD (Biochemistry, Distinction)	Cambridge 1983
MB, BChir	Cambridge 1985

4. Postgraduate medical qualifications

MRCP (UK)	Royal Colleges of Physicians, 1987
FRCP	Royal College of Physicians, London, 1997
FRCPC	Royal College of Physicians, Canada, 2004
FRCP (Ed.)	Royal College of Physicians, Edinburgh, 2006

5. Employment

Current employment: 2008 -

Full Professor of Medicine (Ordinarius) and Director of
Gastroenterology, University of Bern, Switzerland

Previous positions:

Full Professor of Medicine (Senior Canada Chair in Mucosal
Immunology), McMaster University, Ontario, Canada 2004-2008

Staff scientist and Oberarzt in Gastroenterology, Institute of
Experimental Immunology, University of Zürich, Switzerland 1998-2004

Senior Lecturer in Medicine (Consultant), King's College Hospital
Medical School, London, UK 1996-1998

MRC Clinician Scientist (Senior Registrar), King's College
Hospital Medical School, London, UK 1991-1996

(Employment continued)

MRC Training Fellow (Registrar), MRC Clinical Research Centre, Northwick Park, London and Charing Cross and Westminster Medical School, London, UK	1988-1991
Senior House Officer Rotation, University Hospitals, Leicester, UK	1986-1988
House Physician, Addenbrooke's Hospital, Cambridge and House Surgeon, Peterborough District Hospital, UK	1985-1986

6. Awards

Colin Mackenzie Prize, Emmanuel College, Cambridge	1977
Peake Prize, Emmanuel College, Cambridge	1979
Open Research Fellowship, Sidney Sussex College, Cambridge	1981-1992
Beit Fellowship	1990
MRC Clinician Scientist Fellowship	1991-1996
CIBA Foundation Fellowship	1997-1998
Senior Canada Chair Fellowship	2004-2008

8. Invited presentations at international meetings (from 2018)

EWRR 38th European Workshop for Rheumatology Research, Pervasive molecular exchange between the microbiota and host drives immune and inflammatory processes. Geneva, Switzerland.	February 2018
Keystone Symposia on Molecular and Cellular Biology, Manipulation of the Gut Microbiota for Metabolic Health, The Maternal Microbiota and Early Postnatal Innate Immune Development. Banff, Canada.	March 2018
ETH Eidgenössische Technische Hochschule DBSSE Seminar Series, Barriers in Host Microbial Molecular Exchange. Basel, Switzerland.	March 2018
Herrenhausen Symposium on Exploring the Microbiome in Health and Disease, Hannover, Germany.	May 2018
ENII Summer School, Sovereignty and Borders Between Mammals, their Immune System and the Microbiota. Porto Cervo, Sardinia, Italy.	May 2018
CIML Centre d'Immunology de Marseille-Luminy, Immune System Sovereignty or Free-Trade Agreement with the Intestinal Microbiota? Marseille, France.	May 2018
University of Zimbabwe, College of Health Sciences, Borders and Sovereignty in Host-Microbial Mutualism – Interacting with the Microbiome. Harare, Zimbabwe.	May 2018
The Gut Microbiota and the IgA Antibody Production in Health and Disease. Antibodies Set Boundaries Limiting Microbial Metabolite Penetration and the Resultant Mammalian Host Response. Amsterdam, Netherlands.	September 2018

9. Peer reviewing activities

Member of Review College for Swiss National Science Foundation, Wellcome Trust, UK, and Canadian Institutes of Health Research. Panel member for ERC starter grants 2013, 2015. Reviews for MRC UK, German Science Foundation.

Guest editor for PNAS (2014). Reviewed for the following journals in the last 3 years: Nature, Science, Nature Immunology, Nature Medicine, Science Translational Medicine, Immunity, J. Exp. Med., J. Immunol. Cell Host and Microbe, Eur. J. Immunol. Gut, PLOS Biol, PLOS One, EMBO journal, Elife.

10. Current funding

Swiss National Science Foundation 310030_179479; Sinergia grant CRSII5_177164; IFK University of Bern; European Research Council (ERCEA) H2020-ERC-2016 742195; Gebert Ruef Stiftung (GRS (Agroscope); NCRR/SNF 51AU40_180510; Swiss IBD Cohort Study 33CS30_177523.

Publications

1. **Macpherson A.J.**, Yilmaz B, Spalinger MR, Biedermann L, Franc Y, Fournier N, Rossel JB, Juillerat P, Rogler G, Scharl M. (2018) The presence of genetic risk variants within PTPN2 and PTPN22 is associated with intestinal microbiota alterations in Swiss IBD cohort patients. *PLoS One* 13(7):e0199664.
2. M. De Vadder F., Grasset E., Mannerås Holm L., Karsenty G., **Macpherson A.J.**, Olofsson LE, Bäckhed F. (2018) Gut microbiota regulates maturation of adult enteric nervous system via enteric serotonin networks. *Proc Natl Acad Sci USA*, 115(25): 6458-6463.
3. Treise I, Huber EM, Klein-Rodewald T, Heinemeyer W, Grassmann SA, Basler M, Adler T, Rathkolb B, Helming L, Andres C, Klaften M, Landbrecht C, Wieland T, Strom TM, McCoy KD, **Macpherson AJ**, Wolf E, Groettrup M, Ollert M, Neff F, Gailus-Durner V, Fuchs H, Hrabě de Angelis M, Groll M, Busch DH. (2018) Defective immuno- and thymoproteasome assembly causes severe immunodeficiency. *Sci Rep.*;8(1):5975.
4. Hebbandi Nanjundappa R., Ronchi F., Wang J., Clemente-Casares X., Yamanouchi J., Sokke Umeshappa C., Yang Y., Blanco J., Bassolas-Molina H., Salas A., Khan H., Slattery R.M., Wyss M., Mooser C., **Macpherson A.J.**, Sycuro L.K., Serra P., McKay D.M., McCoy K.D., Santamaria P. (2017) A Gut Microbial Mimic that Hijacks Diabetogenic Autoreactivity to Suppress Colitis. *Cell* 171(3):655-667.
5. Garzetti D., Brugiroux S., Bunk B., Pukall R., McCoy K.D., **Macpherson A.J.**, Stecher B. (2017) High-Quality Whole-Genome Sequences of the Oligo-Mouse-Microbiota Bacterial Community. *Genome Announc.* 5(42). pii: e00758-17.
6. Mager L.F., Koelzer V.H., Stuber R., Thoo L., Keller I., Koeck I., Langenegger M., Simillion C., Pfister S.P., Faderl M., Genitsch V., Tcymbarevich I., Juillerat P., Li X., Xia Y., Karamitopoulou E., Lyck R., Zlobec I., Hapfelmeier S., Bruggmann R., McCoy K.D., **Macpherson A.J.**, Müller C., Beutler B., Krebs P. (2017) The ESRP1-GPR137 axis contributes to intestinal pathogenesis. *Elife* 6. pii: e28366.
7. Steinert A., Linas I., Kaya B., Ibrahim M., Schlitzer A., Hruz P., Radulovic K., Terracciano L., **Macpherson A.J.**, Niess J.H. (2017) The Stimulation of Macrophages with TLR Ligands Supports Increased IL-19 Expression Expression in Inflammatory Bowel Disease Patients and in Colitis Models. *J Immunol.* 199(7):2570-2584.
8. Cassano M., Offner S., Planet E., Piersigilli A., Jang S.M., Henry H., Geuking M.B., Mooser C., McCoy K.D., **Macpherson A.J.**, Trono D. (2017) Polyphenic trait promotes liver cancer in a model of epigenetic instability in mice. *Hepatology.* 66(1):235-251.
9. Brugiroux S., Beutler M., Pfann C., Garzetti D., Ruscheweyh H.J., Ring D., Diehl M., Herp S., Lötscher Y., Hussain S., Bunk B., Pukall R., Huson D.H., Münch P.C., McHardy A.C., McCoy K.D., **Macpherson A.J.**, Loy A., Clavel T., Berry D., Stecher B. (2016). Genome-guided design of a defined mouse microbiota that confers colonization resistance against *Salmonella enterica* serovar Typhimurium. *Nat Microbiol.* 21;2:16215.
10. Moor K., Fadlallah J., Toska A., Sterlin D., Balmer M.L., **Macpherson A.J.**, Gorochov G., Larsen M., Slack E. (2016). Analysis of bacterial-surface-specific antibodies in body fluids using bacterial flow cytometry. *Nat Protoc.* 11(8):1531-53.
11. Uchimura Y., Wyss M., Brugiroux S., Limenitakis J.P., Stecher B., McCoy K.D., **Macpherson A.J.** (2016). Complete Genome Sequences of 12 Species of Stable Defined Moderately Diverse Mouse Microbiota 2. *Genome Announc.* 15;4(5).
12. Balmer M.L., Ma E.H., Bantug G.R., Grählert J., Pfister S., Glatter T., Jauch A., Dimeloe S., Slack E., Dehio P., Krzyzaniak M.A., King C.G., Burgener A.V., Fischer M., Develioglu L., Belle R., Recher M., Bonilla W.V., **Macpherson A.J.**, Hapfelmeier S., Jones R.G., Hess. C. (2016) Memory CD8⁺ T Cells Require Increased Concentrations of Acetate Induced by Stress for Optimal Function. *Immunity* 44(6):1312-24.
13. Gomez de Agüero, M. Ganai-Vonarburg, S.G., Fuhrer, T., Rupp, S., Uchimura, Y. Li, H., Steinert, A., Heikenwalder, M., Hapfelmeier, S., Sauer, U., McCoy, K.D. & **Macpherson, A.J.** (2016) The maternal microbiota drives early postnatal immune development. *Science* 18;351(6279):1296-302.
14. Zaiss, M.M., Rapin, A., Lebon, L., Dubey, L.K., Mosconi, I., Sarter, K., Piersigilli, A., Menin, L., Walker, A.W., Rougemont, J., Paerewijck, O., Geldhof, P., McCoy, K.D., **Macpherson, A.J.**, Croese, J., Giacomini, P.R., Loukas, A., Junt, T., Marsland, B.J. & Harris, N.L. (2015) The Intestinal Microbiota Contributes to the Ability of Helminths to Modulate Allergic Inflammation. *Immunity* 43(5):998-1010

15. Li, H., Limenitakis JP, Fuhrer T, Geuking MB, Lawson MA, Wyss M, Grugiroux S, Keller I, Macpherson JA, Rupp S, Stolp B, Stein JV, Stecher B, Sauer U, McCoy K, **Macpherson AJ**. (2015) The outer mucus layer hosts a distinct intestinal microbial niche. *Nature Commun.* 22;6:8292.
16. Brasseit J, Steiner E, Faderl M, Dickgreber N, Saurer L, Genetisch V, Dolowschiak T, Finke D, Hardt W-D, McCoy KD, **Macpherson AJ**, Corazza N, Noti M, Mueller C. (2015) CD4 cells are required for both development and maintenance of disease in a new mouse model of reversible colitis. *Mucosal Immunol.* 9(3):689-701.
17. Mager LF, Riether C, Schürch CM, Banz Y, Wasmer MH, Stuber R, Theocharides AP, Li X, Xia Y, Saito H, Nakae S, Baerlocher GM, Manz MG, McCoy KD, **Macpherson AJ**, Ochsenbein AF, Beutler B, Krebs P. (2015). IL-33 signaling contributes to the pathogenesis of myeloproliferative neoplasms. *J Clin Invest.* 125(7):2579-91.
18. Moghadamrad S, McCoy KD, Geuking MB, Säggesser H, Kirundi J, **Macpherson AJ**, De Gottardi A (2015). Attenuated portal hypertension in germ-free mice: Function of bacterial flora on the development of mesenteric lymphatic and blood vessels. *Hepatology* 61(5):1685-95.
19. Juillerat P, Sokol H, Froehlich F, Yajnik V, Beaugerie L, Lucci M, Burnand B, **Macpherson AJ**, Cosnes J, Korzenik JR. (2015) Factors associated with durable response to infliximab in Crohn's disease 5 years and beyond: a multicenter international cohort. *Inflamm Bowel Dis.* 21(1):60-70.
20. Hoff S, Oyoshi MK, **Macpherson A**, Geha RS.(2014) The microbiota is important for IL-17A expression and neutrophil infiltration in lesional skin of Flg(ft/ft) mice. *Clin Immunol.*156(2):128-130.
21. **Macpherson AJ**, McCoy KD.(2014) Standardised animal models of host microbial mutualism. *Mucosal Immunol.* 8(3):476-486.
22. Balmer ML, Schürch CM, Saito Y, Geuking MB, Li H, Cuenca M, Kovtonyuk LV, McCoy KD, Hapfelmeier S, Ochsenbein AF, Manz MG, Slack E, **Macpherson AJ**. (2014) Microbiota-derived compounds drive steady-state granulopoiesis via MyD88/TICAM signaling. *J Immunol.* 193(10):5273-83.
23. Sauter B, Beglinger C, Girardin M, **Macpherson A**, Michetti P, Schoepfer A, Seibold F, Vavricka SR, Rogler G.(2014) Monitoring disease activity and progression in Crohn's disease. A Swiss perspective on the IBD ahead 'optimised monitoring'recommendations. *Digestion.* 89(4):299-309.
24. Balmer ML, Slack E, de Gottardi A, Lawson MA, Hapfelmeier S, Miele L, Grieco A, Van Vlierberghe H, Fahrner R, Patuto N, Bernsmeier C, Ronchi F, Wyss M, Stroka D, Dickgreber N, Heim MH, McCoy KD, **Macpherson AJ**. (2014) The liver may act as a firewall mediating mutualism between the host and its gut commensal microbiota. *Sci. Transl. Med.* 6(237): 237ra66.
25. Lécuyer E, Rakotobe S, Lengliné-Garnier H, Lebreton C, Picard M, Juste C, Fritzen R, Eberl G, McCoy KD, **Macpherson AJ**, Reynaud CA, Cerf-Bensussan N, Gaboriau-Routhiau V. (2014) Segmented filamentous bacterium uses secondary and tertiary lymphoid tissues to induce gut IgA and specific T helper 17 cell responses. (2014) *Immunity.* 40, 608-20.
26. Markle JG, Frank DN, Mortin-Toth S, Robertson CE, Feazel LM, Rolle-Kampczyk U, von Bergen M, McCoy KD, **Macpherson AJ**, Danska JS. (2013) Sex Differences in the Gut Microbiome Drive Hormone-Dependent Regulation of Autoimmunity. *Science* 339, 1084-8.
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28. Lindner C, Wahl B, Föhse L, Suerbaum S, **Macpherson AJ**, Prinz I, Pabst O. (2012) [Age, microbiota, and T cells shape diverse individual IgA repertoires in the intestine.](#) *J. Exp. Med.* 209:365-77.
29. Xiong X, Frank DN, Robertson CE, Hung SS, Markle J, Canty AJ, McCoy KD, **Macpherson AJ**, Poussier P, Danska JS, Parkinson J. (2012) [Generation and Analysis of a Mouse Intestinal Metatranscriptome through Illumina Based RNA-Sequencing.](#) *PLoS One.* 7:e36009.
30. Haas A, Zimmermann K, Graw F, Slack E, Rusert P, Ledergerber B, Bossart W, Weber R, Thurnheer MC, Battegay M, Hirschel B, Vernazza P, Patuto N, **Macpherson AJ**, Günthard HF, Oxenius A. (2011) The Swiss HIV Cohort Study. Systemic antibody responses to gut commensal bacteria during chronic HIV-1 infection. *Gut* 60:1506-1519.
31. McCarthy D, Kujawa J, Wilson Ch, Papandile A, Poreci U, Porfilio E, Ward L, Lawson M, **Macpherson AJ**, McCoy KD, Pei Y, Novak L, Lee J, Jilian B, Novak J, Ranger A, Gommerman J, Browning J. (2011) Mice

- Over-expressing BAFF Develop a Commensal Flora-Dependent, IgA-Associated Nephropathy. *J Clin Invest.* 121:3991-4002.
32. Shulzhenko N, Morgun A, Hsiao W, Battle M, Yao M, GavriloVA O, Orandle M, Mayer L, **Macpherson AJ**, McCoy K D, Fraser-Liggett C, Matzinger P. (2011) Crosstalk between B lymphocytes, Microbiota and the intestinal epithelium governs immunity versus metabolism in the gut. *Nature Medicine* 17:1585-93.
 33. Geuking MB, Cahenzli J, Lawson MA, Ng DC, Slack E, Hapfelmeier S, McCoy KD, **Macpherson AJ**. (2011) Intestinal bacterial colonization induces mutualistic regulatory T cell responses. *Immunity.* 34:794-806. [IF 19.7, cit. 123]
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 35. Fritz JH, Rojas OL, Simard N, McCarthy D, Hapfelmeier S, Rubino S, Robertson SJ, Larijani M, Gosselin J, Ivanov II, Martin A, Casellas R, Philpott DJ, Girardin SE, McCoy KD, **Macpherson AJ**, Paige CJ Gommerman JL. (2011) Acquisition of a multifunctional TNF- α /iNOS-producing IgA⁺ plasma cell phenotype in the gut. *Nature.* 481:199-203.
 36. Endt K, Stecher B, Chaffron S, Slack E, Tchitchek N, Benecke A, Van Maele L, Sirard JC, Mueller AJ, Heikenwalder M, **Macpherson AJ**, Strugnell R, von Mering C, Hardt WD. (2010) The microbiota mediates pathogen clearance from the gut lumen after non-typhoidal Salmonella diarrhea. *PLoS Pathog.* 6: pii: e1001097.
 37. Hapfelmeier S, Lawson MA, Slack E, Kirundi JK, Stoel M, Heikenwalder M, Cahenzli J, Velykoredko Y, Balmer ML, Endt K, Geuking MB, Curtiss R 3rd, McCoy KD, **Macpherson AJ**. (2010) Reversible microbial colonization of germ-free mice reveals the dynamics of IgA immune responses. *Science.* 328:1705-9.
 38. Stecher B, Chaffron S, Käppeli R, Hapfelmeier S, Friedrich S, Weber TC, Kirundi J, Suar M, McCoy KD, von Mering C, **Macpherson AJ**, Hardt WD. (2010) Like will to like: abundances of closely related species can predict susceptibility to intestinal colonization by pathogenic and commensal bacteria. *PLoS Pathog.* 1:e1000711.
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 40. Sigurdson CJ, Heikenwalder M, Manco G, Barthel M, Schwarz P, Stecher B, Krautler NJ, Hardt WD, Seifert B, **Macpherson AJ**, Corthesy I, Aguzzi A. (2009) Bacterial colitis increases susceptibility to oral prion disease. *J Infect Dis.* 199:243-52.
 41. McCoy KD, Stoel M, Stettler R, Merky P, Fink K, Senn BM, Schaer C, Massacand J, Odermatt B, Oettgen HC, Zinkernagel RM, Bos NA, Hengartner H, **Macpherson AJ***, Harris NL*. [*Joint senior authors] (2008) Polyclonal and specific antibodies mediate protective immunity against enteric helminth infection. *Cell Host Microbe.* 4:362-73
 42. Heikenwalder M, Prinz M, Zeller N, Lang KS, Junt T, Rossi S, Tumanov A, Schmidt H, Priller J, Flatz L, Rüllicke T, **Macpherson AJ**, Holländer GA, Nedospasov SA, Aguzzi A. (2008) Overexpression of lymphotoxin in T cells induces fulminant thymic involution. *Am J Pathol.* 172(6), 1555-70.
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54. Mirza MM, Fisher SA, King K, Cuthbert AP, Hampe J, Sanderson J, Mansfield J, Donaldson P, **Macpherson AJ**, Forbes A, Schreiber S, Lewis CM, Mathew CG. (2003) Genetic evidence for interaction of the 5q31 cytokine locus and the CARD15 gene in Crohn's disease *Am. J. Hum. Genet.* **72**, 1018-22. [IF 10.7, cit. 91]
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