

FACULTY POSITIONS

Professor of Systems Biology, Professor of Paediatric Infectious Diseases; Telethon Kids Institute, Perth Children's Hospital, University of Western Australia, Perth, Australia, 2019 - present

Affiliate Professor, Division of Infectious Diseases, Department of Pediatrics, University of British Columbia and BC Children's Hospital, Vancouver, Canada, 2019 – present

Professor, Division of Infectious Diseases, Department of Pediatrics, University of British Columbia and BC Children's Hospital, Vancouver, Canada, 2015 – 2019

Associate Professor, Division of Infectious Diseases, Department of Pediatrics, University of British Columbia and BC Children's Hospital, Vancouver, Canada, 2010 – 2015

Assistant Professor, Division of Infectious and Immunological Diseases, Department of Pediatrics, University of British Columbia and BC Children's Hospital, Vancouver, Canada, 2005 – 2010

Associate Member, Department of Experimental Medicine, and Department of Pathology, University of British Columbia, Canada, 2006 - present

EDUCATION

Fellow in Pediatric Infectious Disease, University of Washington, Seattle, WA, 7/00- 6/04

Pediatric Resident at the Children's Hospital and Regional Medical Center, Seattle, WA, 6/98 – 6/00

M.D., Albert Einstein College of Medicine, Bronx NY, 1998

Ph.D., (Microbiology & Immunology) Albert Einstein College of Medicine, Bronx, NY, 1995

BOARD CERTIFICATION & CURRENT LICENSES

Australian Health Practitioner Regulation Agency, (pending)

Royal College of Physicians & Surgeons of Canada, 2013- 2019

British Columbia Medical License 2006-2019

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

World Health Organization (WHO), Expert Advisory Group on Non-specific Effects of Vaccination; 2015 –

Temporary Advisor to the WHO on Mother-to-Child Transmission of SARS-Cov-2; 2020 -

Royal College of Physicians & Surgeons of Canada, 2013 - 2019

HONORS AND AWARDS

Michael Smith Foundation for Health Research Career Investigator Award, 2012-2020

Canadian Child Health Clinician Scientist Career Development Award, 2007-2011

Burroughs Wellcome Career Award in the Biomedical Sciences, 2005-2010

Pfizer Postdoctoral Fellowship in Infectious Diseases, 2001-2004

Alpha Omega Alpha (National Honor Medical Society), 1998

ADMINISTRATIVE LEADERSHIP

Director, Centre for Precision Health, Telethon Kids Institute, Perth, Australia, 2019 - present

Head, Division of Infectious Diseases, Department of Pediatrics, University of British Columbia and BC Children's Hospital, Vancouver, Canada, 2017 – 2019

Director, UBC Systems Vaccinology (UBCSysVax) consortium; UBC; 2017 - 2019

Director, Global Pediatric Infectious Diseases Training Program (GpID), UBC, 2011- 2019

Director, Pediatric Infectious Diseases Fellowship Training Program, UBC, 2010-2012 and 2016-2017

Member, Department of Pediatrics Appointment, Reappointment and Promotion Committee, UBC, 2015 - 2019

Associate Director, MicroResearch (microresearch.ca), 2013 – 2018

Member, BC Children's Hospital Drug Dosage & Guidelines Formulary, 2009 – 2019

Member, BC Children's Hospital Research Committee on Cores, 2016 - 2019

Member, PHSA Pharmacy & Therapeutics Quality & Safety Committee, 2009 - 2019

Member, Training & Education Committee, BC Children's Hospital Research Institute, UBC, 2009 – 2019

Member, Advisory Board, UBC Neglected Global Disease Initiative; 2014 – 2019

Member, Advisory Board, Center for International Child Health, UBC; 2016 – 2019

Member, Advisory Board, Scholar of Excellence Program, BC Children's Hospital Research Institute, UBC; 2014 – 2019

TEACHING EXPERIENCE

Course & Curriculum Development:

- 'Week-Development Team', 'Case Author' and 'Case Development Team' for 'Principles of Human Biology' (PRIN401), 1st Year MD/DMD UBC Medical School; 2007 – 2013.

- 'MicroResearch-Applied'. Developed curriculum for academic institutions in East Africa based on the MicroResearch principles (<http://microresearch.ca>); 2013/2014.

- 'Transplant Related Infections' and 'Neonatal Infections'; developed and delivered both of these course series for UBC pediatric- and adult-infectious disease fellows; 2009-2012.

UBC Undergraduate & Graduate School Teaching:

Principles of Human Biology (PRIN 401), 1st Year MD/DMD (4 lectures/year) on Immunology from 2007 – present; Human Diseases (IDMM) 1st year (1 lecture/year) on Viral Infections from 2011 – present; PRIN 402 Medical 2nd year (1 lectures/year) on Perinatal Infections from 2010 - present; Antibiotics in Pediatric Infectious Disease as part of the Academic Half Day Series for 3rd year MD/DMD students (~every other month since 2006). Molecular Pathogenesis of Malaria (Department of Experimental Medicine, June 2006); Research insights into Malaria (Department of Experimental Medicine, June 2007); Vaccine Response (Department of Experimental Medicine, September 2007); Neonatal Vaccination (BCCHR Summer Students, June 2009).

UBC Post-Graduate (Medical Resident & Fellow) Teaching:

- Residents: Immunopathology of Malaria (August 2006); Neonatal Infections (January 2007); Infections in the Immunocompromised (February 2007); Antibiotic Pharmacokinetics, Resistance Mechanisms (December 2007 and 2008); Congenital Infections (2012).

- Adult Infectious Diseases Fellows: Congenital Infections; 1h lecture/year (2009-present).
- Neonatology Fellows: Congenital Infections 1h lecture/year (2010 - present);
- Pediatric Infectious Diseases Fellows: Transplant Related Infections (2009-2012); Neonatal Infections (2011-2013, 2018).
- UBC CME Courses: Molecular and Clinical Immunology (Jan. 2013); Tropical and Geographic Medicine Intensive Short Course (May 2016; May 2017).

Invited International Teaching:

- MicroResearch Course Co-Director and Facilitator (<http://microresearch.ca>), Nairobi, Kenya. Yearly two-week course taught in East Africa (2012 - 2015).
- “Ontogeny of fetal, neonatal and infant innate and adaptive immune system: Knowledge from human studies in relation to vaccines administered during early life”. LIVE Masters in Vaccinology Course, Module: The immune system in early life, pregnancy and elderly; University of Antwerp, Belgium. 2017.
- “Small Sample - Big Data: System Vaccinology applied to early life”, LIVE Master Class, VaxInLive 2018, Lyon France, 2018
- “Small Sample - Big Data: Early Life Immune Ontogeny” PhD Master Class, Radboud University, Nijmegen, Netherlands, 2018

MENTORING & SUPERVISORY EXPERIENCE

Currently supervising: Danny Harbeson (UBC MSc) 2016- present

Supervised students who have graduated at UBC under my primary supervision:

4 BSc; 10 MSc; 9 PhD; 6 post-doctoral fellows

Undergraduate students: Freddy Francis (Directed Studies) 2017; Joe Huang (Co-op Student) 2017; Jody Mao (Summer Student) 2017, 2018; Inayah Manji (Summer Student) 2017, 2018; Diana Zhao (Summer Student) 2017, (work study) 2018; Madeleine Tan (Volunteer) 2017-2018; Caroline Sutton (Volunteer) 2017; Aishwi Roshan (Volunteer) 2017; Richard Zhong (Volunteer) 2017; Michael Xu (Volunteer) 2017; Kevin Elward (Volunteer) 2017-2018; Winnie Bao 2018, Edward Ssebuliba 2018

International co-supervised students who have graduated: Sofia Pederson (PharmD U. Gothenburg, Sweden); 2008-2009; Lisa Franzen (PharmD U. Gothenburg, Sweden) 2009-2010; Rozanne Adams (MSc Stellenbosch University; South Africa,) 2009 – 2011; Victor Cagerus (PharmD U. Gothenburg, Sweden) 2012-2013; Oliver Alka (BSc, U. Freiburg, Germany) 2013-2014; Christian Golding (PhD Staten Serum Institute (Mentor: Dr. C. Stabell Benn) 2015-.

Graduate Thesis Committee Member UBC: Aaron Wyatt 2008 (Hancock lab); Paxton Bach 2008 (Dutz lab); Vicky Cheng, 2007-2014 (Dutz lab); Agatha Jassem, 2009-2013 (Speert Lab); Alicia McMurchy, 2009-2013 (Levings Lab); Marta Wlodarska, 2010-2014 (Finlay lab); Leah Stiemsma 2013-2016 (Turvey Lab); Ngan Hien Lyle, 2013- 2016 (Hancock lab); Eric Brown, 2013 – 2017 (Finlay lab); Seyhon Cho, 2014-2016 (Gantt lab); Jessica Tuengel, 2014 - present (Gantt lab); Karen Simmons, 2014- present (Gantt lab); Mahids Monajemi (Sly lab), 2015 – present.

External Examiner: MSc, Yuexin Li, UBC (Mentor: Dr. Hancock), January 2007; PhD, Dr. Nicholas Wood MD, Sydney, Australia (Mentor: Dr. P. McIntyre), June 2009; MSc, Matthew Gold, UBC (Mentor: Dr. McNagny), November 2010; MSc, Ulrike Lambertz UBC (Mentor: Dr. Reiner), June 2012; MSc, Daljeet Mahal, UBC (Mentor: Dr. Money), April 2013; PhD, Ho Pan Sham, UBC (Mentor: Dr. Bruce Vallance), April 2013; PhD, Olga Pena, UBC (Mentor: Dr. Hancock), June 2013; PhD, Bethany Henrick, McMaster (Mentor: Dr. Rosenthal), August 2013; MSc, C. Toukam, U. of Cape Town, South Africa (Mentor: Dr. Jaspén); March 2014; PhD, Nita Reva Shah, UBC (Mentor: Dr. Fernandez), May 2014; PhD Kristoffer J. Jensen, U. Southern Denmark, Staten Serum Institute (Mentor: Dr. C. Stabell Benn); Lucie Colineau, UBC (Mentor: Dr. Reiner), Feb. 2016; PhD (Comprehensive Exam) Bryan Lin, UBC (Mentor: Dr Pryzdial); PhD V. Sugitharini, SRM University, Kattankulathur, Tamil Nadu, India (Mentor: Prof. E. Berla Thangam); PhD Jop Jans, Radboud University, The Netherlands (Mentor: Prof Ronald deGroot).

Graduate Thesis Defense Chair: MSc Defense, Roger Jen UBC (Supervisor Dr. Lavoie), December 2012; PhD comprehensive examination, Xingji Zheng, UBC (Supervisor Dr. Av-Gay),

December 2012; PhD Defense, Christina Farr, UBC (Supervisors Dr. Horwitz & Smit), March 2016; PhD comprehensive examination Paulina Piesik, UBC (Supervisor Dr. Dutz); August 2018.

RESEARCH FUNDING (present & recent past)

“Containing Coronavirus (CoCo) Trial”. Funded by Broken Hill Proprietary Company Limited (BHP). Coordinating PI: Tobias Kollmann 2020 – 2022.

“BRACE trial (BCG vaccination to Reduce the impact of COVID-19 in Australian healthcare workers following Coronavirus Exposure)”. Funded by Bill & Melinda Gates Foundation, Mindaroo Foundation, PI: Prof. Nigel Curtis, MCRI, Melbourne). Coordinating Perth-Site PI: Dr. Tobias Kollmann 2020 – 2021.

“Flu Bubs - Early Life Influenza Vaccination”. Funded by Telethon. Coordinating PI: Dr. Tobias Kollmann 2020 – 2023.

“FP² - Feasible Prenatal Probiotics “. Weston Foundation. PI: Dr. Tobias Kollmann. 2019-2021.

“Identification of age-dependent mechanism of vaccine-induced immunity to a single dose of hepatitis B vaccine using a systems biology approach – a demonstration project”. Human Vaccines Project. Operating Grant. PI: Dr. Tobias Kollmann. 2017-2027.

“Systems Biology to Identify Biomarkers of Neonatal Vaccine Immunogenicity.” U.S. National Institute of Allergy and Infectious Disease (NIH/NIAID); Human Immunology Project Consortium (HIPC); Operating Grant. PI: O. Levy. Overall Executive Director; and Project PI: Dr. Tobias Kollmann. 2016-2021.

“Systemic immunity: the missing link between gut microbiome and asthma”. CIHR Operating. Co-PI: Dr. William Mohn & Tobias Kollmann. 2016-2021.

“Lower GBP1 expression reduces human host defense against *Listeria monocytogenes*”. CIHR Operating. PI: Dr. Tobias Kollmann. 2013-2018.

“Landscape analysis of the immunobiological gaps in maternal immunization”. Bill & Melinda Gates Foundation. Network and Meeting Support. PI: Dr. Tobias Kollmann. 2015-2016.

“Maternal-Infant Microbiome and Immunity (MIMI) Network”. CIHR Network. PI: Dr. Tobias Kollmann. 2012-2015.

“Canadian Healthy Infant Longitudinal Determinants”. CIHR Operating. PI: Dr. Malcolm Sears, McMaster. Co-Investigator: Dr. Tobias Kollmann. 2008-2015.

“Vaccine for Asthma and Allergies”. CIHR Catalyst. PI: Dr. Tobias Kollmann. 2010-2011.

“Vaccine’s New Frontier: The Role of Innate Immune Receptor Function in Vaccine Outcome”. CCHCSP Award, PI: Dr. Tobias Kollmann, 2007-2011.

“Ontogeny & Genetic Polymorphisms”. AllerGen National Center for Excellence. PI: Dr. Tobias Kollmann, 2007-2009.

“Vancouver Immune & Vaccine Analysis Research Center (VIVArc)”. CFI Leaders Opportunity Fund. PI: Dr. Tobias Kollmann, 2007-2008.

“Establishment Award”. BC Research Institute for Child and Family Health. PI Dr. Tobias Kollmann, 2005-2007.

“TLRs in Innate Immunity and the Induction of Adaptive Immunity in the Neonate and Infant”. NIH/NIAID AI-50023. PI: Dr. Chris Wilson, University of Washington, Seattle, WA. Co-investigator Dr. Tobias Kollmann, 2005-2010.

“Immune Memory to Listeria in Neonates.” Burroughs Wellcome Fund Career Award. PI: Dr. Tobias Kollmann, 2005-2010.

ORIGINAL COMMUNICATIONS

(Note: Individuals supervised by Dr. Kollmann are underlined in the author list)

162. Biogeography of the Relationship between the Child Gut Microbiome and Innate Immune System. Amenyogbe N, Dimitriu P, Smolen KK, Brown EM, Shannon CP, Tebbutt SJ, Cooper PJ, Marchant A, Goetghebuer T, Esser M, Finlay BB, Mohn WW, **Tobias R. Kollmann**. *mBio*. 2021 Jan 12;12(1) PMID:33436437.

161. Multi-omic data integration allows baseline immune signatures to predict hepatitis B vaccine response in a small cohort. Casey P. Shannon, Travis M. Blimkie, Rym Ben-Othman, Nicole Gladish, Nelly Amenyogbe, Sibyl Drissler, Rachel D. Edgar, Queenie Chan, Mel Krajden, Leonard J. Foster, Michael S. Kobor, Bill Mohn, Ryan R. Brinkman, Kim-Anh Le Cao, Richard H. Scheuermann, Scott J. Tebbutt, Robert E.W. Hancock, Wayne C. Koff, Manish Sadarangani, Amy Huei-Yi Lee, **Tobias R. Kollmann**. *Frontiers in Immunology*, 2020 Nov 30;11:578801. PMID: 33329547.

160. Preparing for Life: Plasma Proteome Changes and Immune System Development During the First Week of Human Life. Bennike TB, Fatou B, Angelidou A, Diray-Arce J, Falsafi R, Ford R, Gill EE, van Haren SD, Idoko OT, Lee AH, Ben-Othman R, Pomat WS, Shannon CP, Smolen KK, Tebbutt SJ, Ozonoff A, Richmond PC, van den Biggelaar AHJ, Hancock REW, Kampmann B, **Kollmann TR**, Levy O, Steen H. *Front Immunol*. 2020 Oct 20;11:578505. PMID:33329546

159. Systems biology methods applied to blood and tissue for a comprehensive analysis of immune response to hepatitis B vaccine in adults. Rym Ben-Othman, Bing Cai, Aaron Liu, Natallia Varankovich, Daniel He, Travis M Blimkie, Amy H Lee, Erin E Gill, Mark Novotny, Brian Aevermann, Sybil Drissler, Casey Patrick Shannon, Sarah McCann, Kim Marty, Gordean Bjornson, Rachel D Edgar, Nicole Gladish, David Tse Shen Lin, Julia MacIsaac, Nelly Amenyogbe, Queenie Chan, Alba Llibre, Collin Joyce, Elise Landais, Khoa Le, Samantha M Reiss, Colin Havenar-Daughton, Manraj Heran, Bippan Sangha, David Walt, Mel Krajden, Shane Crotty, Devin Sok, Bryan Briney, Dennis Burton, Darragh Duffy, Leonard J Foster, William W Mohn, Michael S Kobor, Scott James Tebbutt, Ryan R Brinkman, Richard H. Scheuermann, Robert E W Hancock, Manish Sadarangani, **Tobias R Kollmann**. *Frontiers in Immunology*, PMID: 33250895.

158. Innate immune responses and gut microbiomes distinguish HIV exposed from unexposed children in a population-specific manner. Nelly Amenyogbe, Pedro Dimitriui, Patricia Cho, Candice Ruck, Edgardo S. Fortuno III, Bing Cai, Ariane Alimenti, Hélène C.F. Côté, Evelyn J Maan, Amy L. Slogrove, Monika Esser, Arnaud Marchant, Tessa Goetghebuer, Casey P. Shannon, Scott J. Tebbutt, William W. Mohn, Kinga K. Smolen, **Tobias R. Kollmann**. *Journal of Immunology*, 205(10):2618-2628; PMID: 33067377

157. A Teenager with Migrating Leg Pains and Anemia. Eckbo EJ, Mijovic H, Rathgeber S, Armstrong K, **Kollmann TR**. *Pediatr Rev*. 2020 Oct;41(Suppl 1):S33-S35. PMID: 33004577

156. Association of Maternal Factors and HIV Infection With Innate Cytokine Responses of Delivering Mothers and Newborns in Mozambique. Moncunill G, Dobaño C, González R, Smolen KK, Manaca MN, Balcells R, Jairoce C, Cisteró P, Vala A, Sevene E, Rupérez M, Aponte JJ, Macete E, Menéndez C, Mayor A, **Kollmann TR**. *Frontiers in Microbiology* 2020 Jul 11:1452. PMID: 32765436

155. Profiling Avidity of Antibodies Elicited by Vaccination Using Enzyme-Linked Immunosorbent Assay-Based Elution - Insights Into a Novel Experimental and Analytical Approach. Abu-Raya B, Giles ML, **Kollmann TR**, Sadarangani M. *Vaccine*. 2020. Epub Jun 30. PMID: 32620372

154. Interferon- α 2b Treatment for COVID-19. Zhou Q, Chen V, Shannon CP, Wei XS, Xiang X, Wang X, Wang ZH, Tebbutt SJ, **Kollmann TR**, Fish EN. *Front Immunol*. 2020 May 15;11:1061. PMID: 32574262

153. The non-specific and sex-differential effects of vaccines. Aaby, P., Benn, C.S., Flanagan, K.L., Klein S.L., **Kollmann T.R.**, Lynn D.J. and Shann F. *Nat Rev Immunol* May 27:1-7. PMID: 32461674

152. Clinical Protocol for a Longitudinal Cohort Study Employing Systems Biology to Identify Markers of Vaccine Immunogenicity in Newborn Infants in The Gambia and Papua New Guinea. Idoko OT, Smolen KK, Wariri O, Imam A, Shannon CP, Dibasse T, Diray-Arce J, Darboe A, Strandmark J, Ben-Othman R, Odumade OA, McEnaney K, Amenyogbe N, Pomat WS, van Haren S, Sanchez-Schmitz G, Brinkman RR, Steen H, Hancock REW, Tebbutt SJ, Richmond PC, van den Biggelaar AHJ, **Kollmann TR**, Levy O, Ozonoff A, Kampmann B. *Front Pediatr*. 2020 Apr 30;8:197. PMID: 32426309
151. Vaccination Strategies to Enhance Immunity in Newborn Infants. **Tobias R. Kollmann**, Arnaud Marchant, Sing Sing Way. *Science* 2020 May 8;368(6491):612-615. PMID: 32381718
150. BCG-vaccination induced emergency granulopoiesis provides rapid protection from neonatal sepsis. Byron Brook, Danny J. Harbeson, Casey P. Shannon, Bing Cai, Daniel He, Rym Ben-Othman, Freddy Francis, Joe Huang, Natalia Varankovich, Aaron Liu, Winnie Bao, Morten Bjerregaard-Andersen, Frederik Scholtz-Buchholzer, Lilica Sanca, Christian N. Golding, Kristina Lindberg Larsen, Ofer Levy, Beate Kampmann, The EPIC Consortium, Rusung Tan, Adrian Charles, James L. Wynn, Frank Shann, Peter Aaby, Christine S. Benn, Scott J. Tebbutt, Nelly Amenyogbe and **Tobias R. Kollmann**. *Science Translational Medicine* 2020 May 6;12(542). PMID: 32376769
149. Improving vaccine-induced immunity: Can Baseline Predict Outcome? John S. Tsang, Carlota Dobaño, Pierre VanDamme, Gemma Moncunill, Arnaud Marchant, Rym Ben Othman, Manish Sadarangani, Wayne Koff, **Tobias R. Kollmann**. *Trends in Immunology*; 2020 Apr 8; PMID: 32340868.
148. Feasibility of manual white blood cell counts as a predictor of neonatal sepsis in a low-resource setting. Christian N. Golding, Frederik Scholtz-Buchholzer, Lilica Sanca, Clara Clipet-Jensen, Christine S. Benn, Nicholas Au, Kate Chipperfield, **Tobias R. Kollmann** and Nelly A. Amenyogbe. *Trans R Soc Trop Med Hyg* 2020; 1–9. PMID: 32333010.
147. Maternal HIV Infection Alters Antimicrobial Immunity in Exposed and Uninfected Infants Marchant A, Amenyogbe N, **Kollmann TR**, Goetghebuer T. *Pediatr Infect Dis J*. 2020 May;39(5):e47-e48. PMID: 32301922
146. The Effect of Timing of Tetanus-Diphtheria-Acellular Pertussis Vaccine Administration in Pregnancy on the Avidity of Pertussis Antibodies. Abu-Raya B, Giles ML, **Kollmann TR**, Sadarangani M. *Front Immunol*. 2019 Oct. PMID: 31681310
145. Measles Maternal Antibodies With Low Avidity Do Not Interfere With the Establishment of Robust Quantity and Quality Antibody Responses After the Primary Dose of Measles, Mumps, and Rubella Vaccine Administered at 12-Months of Age. Collins CA, Gelinas L, Yasukawa LL, Audet S, Abu-Raya B, Turvey SE, Beeler JA, Gans HA, **Kollmann TR**. *J Pediatric Infect Dis Soc*. 2019 Oct 23. PMID: 31644795
144. Immunogenicity of 2 and 3 Doses of the Quadrivalent Human Papillomavirus Vaccine up to 120 Months Postvaccination: Follow-up of a Randomized Clinical Trial. Donken R, Dobson SRM, Marty KD, Cook D, Sauvageau C, Gilca V, Dionne M, McNeil S, Kraiden M, Money D, Kellner J, Scheifele DW, **Kollmann T**, Bettinger JA, Liu S, Singer J, Naus M, Sadarangani M, Ogilvie GS. *Clin Infect Dis*. 2019 Sep 6. PMID: 31617568
143. Early Life HIV-1 Immunization: Providing a Window for Protection Before Sexual Debut. Permar S, Levy O, **Kollman TR**, Singh A, De Paris K. *AIDS Res Hum Retroviruses*. 2018 Oct;34(10):823-827. PMID: 29860868.
142. AIDS Vaccine Research Subcommittee (AVRS) Consultation: Early-Life Immunization Strategies against HIV Acquisition. Singh A, Permar S, **Kollmann TR**, Levy O, Marovich M, De Paris K. *mSphere*. 2019 Jul 17;4(4). pii: e00320-19. PMID: 31315966
141. Malt1 deficient mice develop osteoporosis independent of osteoclast-intrinsic effects of Malt1 deficiency. Monajemi M, Fisk S, Pang YCF, Leung J, Menzies SC, Ben-Othman R, Cai B, **Kollmann TR**, Rozmus J, Sly LM. *J Leukoc Biol*. 2019 Jul 16. doi: 10.1002/JLB.5VMA0219-054R. [Epub ahead of print] PMID: 31313375
140. Reduced genetic potential for butyrate fermentation in the gut microbiome of infants who develop allergic sensitization. Cait A, Cardenas E, Dimitriu PA, Amenyogbe N, Dai D, Cait J, Sbihi H, Stiemsma L, Subbarao P, Mandhane PJ, Becker AB, Moraes TJ, Sears MR, Lefebvre DL, Azad MB, **Kollmann T**, Turvey SE, Mohn WW. *J Allergy Clin Immunol*. 2019 Jul 3. pii: S0091-6749(19)30891-7. PMID: 31279007

139. Robust health-score based survival prediction for a neonatal mouse model of polymicrobial sepsis. Brook B, Harbeson D, Amenyogbe N, Ben-Othman R, Kollmann TR, Aniba R. *PLoS One*. 2019 Jun 24;14(6):e0218714. PMID 31233529.
141. Nelly Amenyogbe, Amy H. Lee, Casey P. Shannon, Tue B. Bennike, Joann Diray-Arce Olubukola Idoko, Erin E. Gill, Rym Ben-Othman, William S. Pomat, Simon van Haren, Kim-Anh Lê Cao, Momoudou Cox, Alansana Darboe, Reza Falsafi, Davide Ferrari, Daniel J. Harbeson, Daniel He, Cai Bing, Samuel J. Hinshaw, Jorjoh Ndure, Jainaba Njie-Jobe, Matthew A. Pettengill, Peter C. Richmond, Rebecca Ford, Gerard Saleu, Geraldine Masiria, John Paul Matlam, Wendy Kirarock, Elishia Roberts, Mehrnoush Malek, Guzmán Sanchez-Schmitz, Amrit Singh, Asimena Angelidou, Kinga K. Smolen, the EPIC Consortium, Ryan R. Brinkman, Al Ozonoff, Robert E.W. Hancock, Anita H.J. van den Biggelaar, Hanno Steen, Scott J. Tebbutt, Beate Kampmann, Ofer Levy, **Tobias R. Kollmann**. Dynamic molecular changes during the first week of human life follow a robust developmental trajectory. *Nature Communications* 12;10(1):1092. PMID: 30862783
138. Brook B, Amenyogbe N, Ben-Othman R, Cai B, Harbeson D, Francis F, Liu AC, Varankovich N, Wynn J, Kollmann TR. A Controlled Mouse Model for Neonatal Polymicrobial Sepsis. *J Vis Exp*. 2019 Jan 27;(143). PMID: 30741260
137. Francis F, Varankovich N, Brook B, Amenyogbe N, Ben-Othman R, Cai B, Harbeson D, Liu AC, Dai B, McErlane S, Andrews K, Panigrahi P., Kollmann TR. Probiotic Studies in Neonatal Mice Using Gavage. *J Vis Exp*. 2019 Jan 27;(143). PMID: 30741256
136. Goetghebuer T, Smolen KK, Adler C, Das J, McBride T, Smits G, Lecomte S, Haelterman E, Barlow P, Piedra PA, van der Klis F, **Kollmann TR**, Lauffenburger DA, Alter G, Levy J, Marchant A. Initiation of anti-retroviral therapy before pregnancy reduces the risk of infection-related hospitalization in HIV-exposed uninfected infants born in a high-income country. *Clin Infect Dis*. 2018 PMID: 30215689
135. Harbeson D, Francis F, Bao W, Amenyogbe NA, Kollmann TR. Energy Demands of Early Life Drive a Disease Tolerant Phenotype and Dictate Outcome in Neonatal Bacterial Sepsis. *Front Immunol*. 2018; 9:1918. eCollection. PMID: 30190719
134. Harbeson D, Ben-Othman R, Amenyogbe N, Kollmann TR. Outgrowing the Immaturity Myth: The Cost of Defending From Neonatal Infectious Disease. *Front Immunol*. 2018; 9:1077. eCollection. PMID: 29896192
133. Chen KYH, Messina N, Germano S, Bonnici R, Freyne B, Cheung M, Goldsmith G, **Kollmann TR**, Levin M, Burgner D, Curtis N. Innate immune responses following Kawasaki disease and toxic shock syndrome. *PLoS One*. 2018; 13(2):e0191830 eCollection PMID: 29447181
132. Freyne B, Donath S, Germano S, Gardiner K, Casalaz D, Robins-Browne RM, Amenyogbe N, Messina NL, Netea MG, Flanagan KL, **Kollmann TR**, Curtis N. Neonatal BCG vaccination influences cytokine responses to Toll-like receptor ligands and heterologous antigens. *J Infect Dis*. 2018; 217(11):1798-1808 PMID: 29415180
131. Scheid A, Borriello F, Pietrasanta C, Christou H, Diray-Arce J, Pettengill MA, Joshi S, Li N, Bergelson I, **Kollmann TR**, Dowling DJ, Levy O. Adjuvant Effect of Bacille Calmette-Guérin on Hepatitis B Vaccine Immunogenicity in the Preterm and Term Newborn.. *Front Immunol*. 2018; 9:29. doi: 10.3389 PMID: 29416539
130. Dharma C, Lefebvre DL, Tran MM, Lou WYW, Subbarao P, Becker AB, Mandhane PJ, Turvey SE, Sears MR, **Kollmann TR**; CHILD Study investigators. Patterns of allergic sensitization and atopic dermatitis from 1 to 3 years: Effects on allergic diseases. *Clin Exp Allergy*. 2018; 48(1):48-59 PMID: 29143385
129. Tran MM, Lefebvre DL, Dharma C, Dai D, Lou WYW, Subbarao P, Becker AB, Mandhane PJ, Turvey SE, Sears MR, **Kollmann TR**; Canadian Healthy Infant Longitudinal Development Study investigators. Predicting the atopic march: Results from the Canadian Healthy Infant Longitudinal Development Study. *J Allergy Clin Immunol*. 2018; 141(2):601-607 PMID: 29153857
128. Saiganesh A, Hales BJ, Chen S, Filipovska-Naumovska E, Pereira G, Garand M, **Kollmann TR**, Currie AJ, Souëf PNL, Zhang G. The Western Environment Reduces Innate Immune Cytokine Production in Chinese Immigrants. *J Allergy Clin Immunol*. 2018; 141(4):1504-1507 PMID: 29274412
127. Matettore A, Kollmann TR. Traumatic Neonatal Lumbar Punctures: Experience at a Large Pediatric Tertiary Care Center in Canada. *Am J Perinatol*. 2018; 35(8):764-768 PMID: 29287293

126. Miliku K, Robertson B, Sharma AK, Subbarao P, Becker AB, Mandhane PJ, Turvey SE, Lefebvre DL, Sears MR, **Kollmann TR**; CHILD Study Investigators, Bode L, Azad MB. Human milk oligosaccharide profiles and food sensitization among infants in the CHILD Study. *Allergy*. 2018; doi: 10.1111 [Epub] PMID: 29775217
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75. "OptImmunize", 'BCG induces emergency granulopoiesis to protect from newborn sepsis'. Cambridge U., UK, February 2020.

74. "5th International and Neonatal Immunization Symposium"; co-Chair; Vancouver, Canada, Sept 2019

73. "Congenital syphilis and how we can prevent it" Telethon Kids Institute Grand Rounds Presentation, Perth Australia, Sep 2018

72. "The Rules of Immunity" Michelson Medical Research Foundation and Human Vaccines Project 1st Annual Conference on the Future of Vaccine Development. Los Angeles U.S.A. June 2018

71. "Redefining the modern health crisis - infectious and socially communicable disease". inFLAME Global Network 7th Annual Workshop, Canmore AB, April 2018

70. "Focus on Host vs. Pathogen: Saving Newborn Lives through a Paradigm Shift". NIH Twinbrook Seminar, Maryland U.S.A. March 2018

69. "Small Sample - Big Data: Novel Approach to Data Integration across Systems Biology Platforms". McGill University Health Centre, Division of Infectious Diseases and Medical Microbiology Interhospital Rounds, Montreal QB, February 2018

68. "Focus on Host vs. Pathogen: Saving Newborn Lives through a Paradigm Shift". McGill University Pediatric Grand Rounds, Montreal QB, February 2018

67. "Decoding the Human Immune System to Accelerate Vaccine Development". Keystone Symposia - Emerging Technologies in Vaccine Discovery and Development, Banff AB, January 2018

66. "Focus on Host vs. Pathogen: Saving Newborn Lives through a Paradigm Shift". Aga Khan University Faculty of Health Sciences Academic Rounds, Nairobi Kenya, December 2017
65. "Small Sample - Big Data: systems biology applied to the newborn" Telethon Kids Institute Scientific Retreat, Australia, November 2017
64. "Preventing newborn mortality with low-cost interventions". PNG Institute of Medical Research Seminar, Papua New Guinea, November 2017
63. "Small Sample – Big Data: systems biology to decipher early life vaccine responses". International Precision Vaccines Conference, Boston MA U.S.A., October 2017
62. "The power of non-specific and heterologous effects of vaccination". API Meeting, Germany, May 2017
61. "Susceptibility to Infectious Disease in the Newborn". International Research Symposium Centered on Understanding and Preventing Infection in Children, Vancouver, BC, April 2017
60. "Uninfected but not Unaffected". International Research Symposium Centered on Understanding and Preventing Infection in Children, Vancouver, BC, April 2017
59. "Susceptibility to Infectious Disease in the Newborn". Royal Society of London; 'Reducing neonatal infectious morbidity and mortality Theo Murphy meeting'. Chicheley Hall, Buckinghamshire UK, February 2017
58. "Vaccine Elicited Immunity in the Pediatric Immune System", HIVR4P Meeting - NIAID sponsored Satellite Session, Chicago IL U.S.A., October 2016
57. "How Heterologous/Non-Specific Effects of Vaccines Are Changing the Impact of Vaccines" the International Pediatric Association (IPA 2016) Congress, Vancouver Canada, August 2016
56. "Focus on Host vs. Pathogen: Saving Newborn Lives Through a Paradigm Shift". UBC Centre for Blood Research, Vancouver Canada, June 2016
55. "Vaccine Immune Responses in Heterogeneous Populations". Human Vaccines Project. Scientific Leadership Group Meeting. Annecy France, April 2016
54. "Saving Newborn Lives Through a Paradigm Shift: Focus on Host vs. Pathogen". Pasteur Institute, Immunology Department Seminars, Paris France, December 2015
53. "The Developing Immune System and the Impact of Maternal Antibodies". 3rd International Neonatal & Maternal Immunization Symposium (INMIS-2015); Global Strategies for Global Impact, The Gambia, November 2015
52. "Impact of Age & Environment on Vaccine Response". Human Vaccines Project. Rules of Immunogenicity Workshop, New York, July 2015.
51. "Impact of maternal immunization on fetal/infant immunity". Landscape Analysis of Maternal Immunization meeting; Bill & Melinda Gates Foundation, Vancouver, June 2015.
50. "Measurement of Vaccine Responses in Children". European Society for Pediatric Infectious Disease, Leipzig, Germany, May 2015.
49. "State of the Art: Maternal Immunization". Canadian Immunization Research Network, Annual Meeting, Montreal, May 2015.
48. "Non-specific Protection from Infection by Vaccines". Keynote Speaker Immunology Day, U. of Toronto, Toronto, April 2015.
47. "Off-target Benefits of Vaccination". Clinical Immunology Society meeting; Houston, Tx, April 2015.
46. "Predictors of Vaccine Responses in Children". Keystone meeting on AIDS Vaccines, Banff, March 2015.
45. "Evidence of non-specific protection from sepsis in the neonatal period". WHO Expert Advisory Group (EAG), Oxford, February 2015.
44. "Dissecting the immune response to vaccination in the youngest – do we have the tools?" Royal Society of London, London, November 2014
43. "Approach to Comprehensive Immune Assessment in Newborns and Infants in Large Clinical Trials". Probiotics to Fight Neonatal Sepsis in Africa, Nairobi, Kenya; July 2014.
42. "MicroResearch – A new era". Hot Topics in Infectious Diseases in Children, Oxford University, UK; July 2014.
41. "Development of Immunity in Early Life". Hot Topics in Infectious Diseases in Children, Oxford University, UK; July 2014

40. "Why was obtaining MD PhD training the right decision for me?" Keynote Speaker, Canadian National Medical Student Research Symposium, Winnipeg MB, Canada June 2014
39. "Development of Human Immunity: Implications for Health and Disease". Keynote Speaker, Canadian National Medical Student Research Symposium, Winnipeg, MB, Canada. June 2014.
38. "A Global Perspective on Molecular Cause & Effect". McMaster University, Hamilton, ON; May 2014
37. "A Global Perspective on Molecular Cause & Effect". Keynote Speaker, Pediatric Resident Research Day, University of Dalhousie, Halifax, NS, Canada. April 2014.
36. "Interrogating DOHaD – Common Biology, Immunology, Infection, Inflammation and Microbiome". Developmental Origins of Health and Disease Meeting, Vancouver, BC,. February, 2014.
35. "Innate Immune Development: A Global View". Canadian Society for Immunology, Whistler, BC, Canada. April 2013.
34. "Innate Immune Development". AAAAI Annual Meeting. San Antonio, TX, USA. Feb. 2013.
33. 'Human Innate Immune Development: Windows of Vulnerability - Windows of Opportunity'. Federation of Clinical Immunology Societies (FOCIS) CHIN symposium, Vancouver, BC, June 2012.
32. "Innate Immune Ontogeny". HIV Vaccine Trial Network, Seattle, WA, USA. May 2012.
31. "What's Hot in Pediatrics". Association of Medical Microbiology and Infectious Disease (AMMI); Vancouver, BC, Canada; May 2012.
30. "Ontogeny of the Innate Immune System". Presented & Session Co-chair at "Development of cellular innate immunity". U. Freiburg, Germany, Dec. 2011.
29. "Host Environment Interactions in the Ontogeny of the Immune System". Presented at "The Commensal Microbiota: From Homeostasis to Disease". College de France, Paris, France. May 2011.
28. "Development of the human immune system". Montreal General Hospital, Montreal, QB, Canada. March 2011.
27. "Neonatal Immunization". Montreal Children's Hospital, Montreal, QB,. March 2011.
26. "Immune Ontogeny". Royal Melbourne Children's Hospital, Melbourne Australia, Dec 2010.
25. "Development of innate immune response to TLR stimulation". NIAID meeting on 'Immune Function and Biodefense in Children, Elderly, and Immunocompromised Populations'. Washington, DC, December 2010.
24. "Adjuvants". *9th Canadian Immunization Conference*. Chair. Quebec City, December 2010.
23. "Neonatal Vaccines – How Early Can We Start?" Presenter. 48th Annual meeting of the Infectious Disease Society of America. Vancouver, BC. 2010.
22. "H1N1 and HPV: Lessons learned". Presenter. Annual meeting of the Canadian Pediatric Society. Vancouver, BC, 2010.
21. "Adding Immunological Emphasis: A New Era of Adjuvanted Vaccines". Presenter. 23rd annual meeting of the Canadian Society for Immunology. Niagara Falls, ON. 2010.
20. "Current Understanding of the Infant Innate Immune Response". Presenter. NIH Workshop: Challenges in Infant Immunity. Bethesda, MD. 2010.
19. "Development of the human innate immune system". Presenter. International Neonatal & Maternal Immunization Meeting. Antalya, Turkey, 2010.
18. "Profiling cytokine expression and innate immunity". Presenter and session moderator; NIAID meeting on 'Immune Function and Biodefense in Children, Elderly, and Immunocompromised Populations'. Philadelphia, PA, 2009.
17. "Innate Immune Assessment in Mucosal Immunology of the Gut". Bill & Melinda Gates Foundation. Seattle, WA, 2009.
16. "Adjuvants – The Immunologist's Secret". *8th Canadian Immunization Conference*. Chair. Toronto, ON. 2008.
15. "Ontogeny of the Human Innate Immune System". *Canadian Child Health Clinician Scientist Program*. Edmonton, AB. 2008.
14. "Looking in the Future: Enabling Technology, Automation and HTS". *Foundation Merieux: CMI Techniques Standardization for Vaccine Response Evaluation*. Co-Chair Session III. Annecy, Les Pensières, France. 2008.
13. "Innate Immune Assessment". *Foundation Merieux: CMI Techniques Standardization for Vaccine Response Evaluation*. Annecy, Les Pensières, France. 2008.

12. “Intelligent Vaccine Design”, *CAIRE Master Class*, Co-Chair, Vancouver, BC 2008; “Intelligent Vaccine Evaluation”, *CAIRE Master Class*, Co-Chair. Toronto, ON 2009.
11. “Bioinformatics in High-Throughput Immune Phenotyping”. *Neonatal Immunology Workshop*. Institute for Medical Immunology, Université Libre de Bruxelles, Charleroi, Belgium 2008.
10. “Ontogeny of the Human Innate Immune System”. *University of Cape Town Lecture Series*, Cape Town, South Africa. 2008.
9. ‘How we respond to vaccines’. 11th annual Child Health Research Symposium (MOCERT accredited), Alberta Children’s Hospital, Calgary, UB. Feb 2008.
8. ‘Induction of Protective Immunity in Neonates. VIDO, Saskatoon, SK. June 2007.
7. ‘High-Throughput Immune Phenotyping’. “From Gene to Society” meeting, Allergen NCE, Hamilton, ON. 2007.
6. “Multiparameter Immune Phenotyping”. South African TB Vaccine Initiative, Cape Town, South Africa. 2007.
5. “Assessment of Neonatal TLR Response”. NIH meeting on Immune Function and Biodefense in Children, Elderly and Immunocompromised Populations, Maryland 2006; 2007; 2008.
4. “Protective Immunity to *Listeria monocytogenes* in the Neonate”. Invited Speaker, Department of Pediatrics, Division of Immunological and Infectious Diseases, UBC, Vancouver, Canada. 2005
3. “Immaturity of the Immune System of the Premature Infant”. Neonatal Pharmacology Preconference on Neonatal Infectious Disease, Pathogenesis, and Treatment, Seattle, Washington. 2005
2. “T cell Immunity in Infants and Immune System Overload Hypothesis”. Institute of Medicine (IOM), Immunization Safety Review Committee, 2001, Seattle, WA.
1. “Effect of IL-3, GM-CSF and IL-6 on the engraftment of human fetal bone marrow in *scid* mice”. *The SCID Mouse in Biomedical and Agricultural Research*, 1992, Canada.

ORGANIZER OF INTERNATIONAL & NATIONAL MEETINGS

10. The HIV Exposed but Uninfected Infant: New Insights. Vancouver, Canada. July 2015.
9. Landscape Analysis of Maternal Immunization. Bill & Melinda Gates Foundation sponsored meeting, Vancouver, June 2015.
8. Probiotics to Fight Neonatal Sepsis in Africa. Nairobi, Kenya; August 2014.
7. 1st African Microbiome Conference. Nairobi, November 2013 (co-organized with G. Reid).
6. 10th Canadian Immunization Conference. ‘Correlates of Protection’. Session Chair. Vancouver, December 2012.
5. 9th Canadian Immunization Conference. ‘Advances in Adjuvants’. Session Chair & Presenter. Quebec City, December 2010.
4. 8th Canadian Immunization Conference. ‘Adjuvants’. Session Chair. Toronto, December 2008.
3. Bioinformatics Meeting Series: ‘Addressing the High-Throughput Statistical and Analytical Needs of Vaccine Trials and Cohort Studies’. Vancouver, November 2008.
2. Canadian Immunization Research Network (CAIRE); Master Class Series: ‘Intelligent Vaccine Evaluation’, November 2008.
1. Canadian Immunization Research Network (CAIRE); Master Class Series: ‘Intelligent Vaccine Design’, February 2008.

INVITED REVIEWER OR CONSULTANT

1. *Bill & Melinda Gates Foundation*: ‘Landscape Analysis of Immunology Research Gaps Related to Maternal Immunization’; February 2015 – present
2. *Editorial Board*: Clinical and Vaccine Immunology (2015 – present)
3. *Academic Editor*: PLoS ONE (2012-2019)
4. *Guest Editor*: *Vaccine*, March 2012; *Clinical & Developmental Immunology*, January 2013; *Frontiers in Immunology*, December 2013

5. *Journal Reviewer*: Nature, Science, Nature Review Immunology; Nature Protocols; Blood, PLoS ONE, Journal of Immunology, Journal of Infectious Disease, Vaccine, Human Immunology, Journal of Perinatology, Pediatric Infectious Disease Journal, Pediatric Research, Mucosal Immunology, Trends in Immunology, Infection & Immunity; European Journal of Immunology; Gut & Microbe; Clinical & Experimental Allergy; Acta Paediatrica; British Medical Journal, JAMA Pediatrics, Scientific Reports Nature.
6. *UBC & British Columbia*: Internal Grant Reviewer: UBC, 2007- present; Internal Tier 2 Canada Research Chair Competition Reviewer, UBC 2012. Michael Smith Foundation for Health Research (MSFHR) Research Trainee – Biomedical Graduate Studentship Evaluation Committee, UBC, 2009; Advisory Board Member, Neglected Global Disease Initiative (NGDI), UBC 2014 – present.
7. *Canada*:
 - CIHR Microbiology and Infectious Diseases (MID) Committee; 2017 - present
 - NSERC Discovery Grants; 2016 - present
 - CIHR College of Reviewers; 2016 - present
 - CIHR Project Scheme Reviewer; 2016 – present
 - CIHR Foundation Scheme Reviewer; 2015 – present
 - CIHR Respiratory System Grants Committee; 2013 - 2014 (2 sessions/year).
 - CIHR Biological and Clinical Aspects of Aging-A (BCA) Peer Review Committee, 2009.
 - Alberta Innovates Health Solutions, Peer Review Committee; 2012.
 - Association of Medical Microbiology and Infectious Disease Canada (AMMI) Grants and Awards Committee; 2012- 2014
8. *USA*:
 - Member, External Advisory Board (EAB), U.S. National Institute of Allergy and Infectious Disease (NIAID), Bioinformatics Integration Support Contract (BISC) program, 2009-present.
 - Invited Member, NIH Review Panel, Recovery Act Limited Competition: Protection of Human Health by Immunology and Vaccines (U01, U19), May 2010.
 - Invited Reviewer, NIAID Human Immunology Project Consortium (HIPC); July 2011.
 - Invited Member, Review Panel, Multi-project Grant Applications (U19), NIAID Centers of Excellence in Translational Research, June 2013.
 - Invited Member, Review Panel, Multi-project Grant Applications (U19), NIAID Cooperative Centers on Human Immunology; January 2014
9. *International*:
 - Wellcome Trust, UK (2012)
 - South Africa's National Research Foundation (2009-present)
 - Swiss National Science Foundation (2012)
 - Hong-Kong Research Grants Council (2013)
 - The Netherlands Organization for Health Research and Development (2014)
 - The UK Meningitis Research Foundation (2014)
 - Institute Pasteur International Network (2016)
 - Icelandic Research Fund (2016)
10. *Other*:
 - Department of Microbial Pathogenesis and Immunology, Texas A&M University Health Science Center, Promotion and Tenure Committee; 2015
 - Co-Director, Expanded Program Immunization Consortium (EPIC); 2017-present
 - Human Vaccines Project Scientific Leadership Group; 2017-present
 - National Institute of Allergy and Infectious Diseases, Promotion and Tenure Committee; 2018

CONTACT DETAILS

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