

Curriculum vitae (April 24)

Name Philippe Krebs
 Date and place of Birth May 10th, 1977; Fribourg (Switzerland)
 Nationality Swiss
 Marital status Married to Danielle C.
 Children Anaïs V. (2010), Lionel F. (2012)
 Professional e-mail philippe.krebs@unibe.ch
 Professional phone no +41 31 684 1215



ORCID 0000-0003-4918-6654
 ResearcherID A-3449-2012
 Google Scholar ID vnE60MwAAAAJ

Website https://www.igmp.unibe.ch/research/research_groups/group_krebs/index_eng.html

Languages French (mother language), German (excellent, oral and written), English (excellent, oral and written)

Education / professional experience

Since Aug. 2022 Head of Experimental Pathology Department, **Institute of Tissue Medicine and Pathology, University of Bern**
 Since Oct. 2011 Group leader (Oberassistent 2011-2015; 12.2015-11.2017: Dozent II; since 12.2017: Dozent I) **Institute of Tissue Medicine and Pathology, University of Bern, Switzerland**
 Apr. 2021 Award of the title of Associate Professor; date of award: 01.04.2021
 Jun. 2016 Habilitation in Experimental Pathology; date of PD title award: 21.06.2016
 2006-2011 Research associate (Prof. Bruce Beutler) **The Scripps Research Institute, Department of Genetics, La Jolla, USA**
 EMBO Fellow (24 months), SNSF Fellowship (30 months)
 2005-2006 Junior postdoc position (Prof. Burkhard Ludewig) **Institute of Immunobiology, Kanton Hospital, St-Gallen, Switzerland**
 2001-2005 Ph.D. thesis (Prof. Burkhard Ludewig, Prof. Hans Hengartner and Prof. Rolf Zinkernagel) **Institute of Experimental Immunology of the University Hospital Zürich, ETHZ and Institute of Immunobiology, Kanton Hospital, St-Gallen, Switzerland**
 1999-2000 Diploma (MSc) thesis (Prof. Sandro Rusconi) **Institute of Biochemistry, University of Fribourg, Switzerland**
 1996-2001 Studies in biochemistry and molecular biology, MSc in biochemistry. **University of Fribourg**
 1992-1996 **Collège St-Michel, Fribourg**, Type A (ancient Greek / Latin); Award of the best Matura / Baccalauréat

Institutional responsibilities

2012- Biosafety Officer for research and diagnostics activities at the Institute of Tissue Medicine and Pathology, University of Bern
 2012- Member of the Expert Commission of the Graduate School for Cellular and Biomedical Sciences of the University of Bern; mentor (total of 24 PhD students) and thesis co-advisor (total of 10 PhD students)
 2016- Member of Steering Committee for project on Digital Pathology at the Institute of Tissue Medicine and Pathology (IT solution for analysis, storage and organization of scanned histology slides together with patient- and project-specific data).
 2021- Member of the Committee for the Medical and Pharmaceutical Libraries, University of Bern
 2021 Member of the selection Committee for an “Open Rank Assistant Professor with Tenure Track or Extraordinary Professor for Digital Pathology”, University of Bern
 2021 Member of the selection Committee for an “Tenure-Track Assistant Professor Position in Spatially Resolved Multidimensional Transcriptomics”, University of Bern
 2022- Member of the BIC (Bernese Immunology Club), a platform to facilitate and promote basic and clinical research in immunology at the University of Bern.

Grants and Awards

2023 *Purinergic-dependent regulation of T cell function during infection*
 Main applicant, **Ruth & Arthur Scherbarth Stiftung**, 12 months project grant; **CHF 50'000**
 2023 EU / Marie Skłodowska-Curie Action (HORIZON-MSCA-2022-SE-01) Staff Exchange Program, “*CHIRON / The role of the non-canonical death receptor signaling in cancer and immune cells*”; total budget of € 1'531'800; part for group Philippe Krebs (partner) will be additional (funded by the Swiss State Secretariat for Education, and proportional to the number of staff secondments).

- 2022 Main applicant, **UniBE ID (Interdisciplinary) Grants 2022**; 24 months grant; total CHF 150'000; part for group Philippe Krebs: **CHF 75'000**
- 2021 Main applicant, **Fondazione San Salvatore**; 24 months project grant; **CHF 170'000**
- 2021 Main applicant, **Swiss Cancer Research Foundation (KLS)**; 42 months grant; **CHF 374'920**
- 2021 Main applicant, **Swiss Life / Jubiläumsstiftung**; 6 months project grant; **CHF 20'000**
- 2021 Main applicant, **Uniscientia Stiftung**; 18 months project grant; **CHF 136'000**
- 2020 Main applicant, **Bern Center for Precision Medicine (BCPM)**; 9 months project grant; **CHF 40'532**
- 2019 Main applicant, **Swiss National Science Foundation**; 48 months project grant; **CHF 632'000**
- 2019 Main applicant, **Helmut Horten Stiftung**; 18 months grant; **CHF 130'000**
- 2018 Main applicant, **Seed money project (Swiss Confederation and ETHZ)**; 12 months grant; **CHF 10'000**
- 2018 Main applicant, **Lungenliga Bern (Bernese Lung League)**, 12 months grant; **CHF 79'554**
- 2018 Main applicant, **Lungenliga Schweiz (Swiss Lung League)**, 12 months grant; **CHF 79'554**
- 2018 Main applicant, **Carigest SA**, 12 months grant; **CHF 130'000**
- 2018 EU / Marie Skłodowska-Curie RISE (Research and Innovation Staff Exchange) Program, “*DISCOVER / Death receptor signaling in tumor immune editing*”; total: € 904'500; part for group Philippe Krebs (partner): € **67'500** (proportional to the number of staff secondments)
- 2018 Coapplicant; (**Swiss) Commission for Technology and Innovation (CTI / Innosuisse)**; 24 months grant; main applicant: J. Rohrer, ZHAW; associated business partner: Memo Therapeutics AG; total: CHF 737'539; part for group Philippe Krebs: **CHF 163'416** (conditional on milestone achievement)
- 2017 “*Apparatus for in vivo molecular imaging at cellular resolution in the intestine of mice*” (Equipment grant; total CHF 376'196). Co-applicant, **Swiss National Science Foundation**, equipment grant (**R'Equip Grant**)
- 2017 Main applicant, **UniBE ID (Interdisciplinary) Grants 2017**; 24 months grant; total CHF 150'000; part for group Philippe Krebs: **CHF 75'000**
- 2017 Main applicant, **Kurt und Senta Herrmann Foundation**; 6 months grant; **CHF 30'000**
- 2017 Main applicant, **Swiss Cancer Research Foundation (KFS)**; 30 months grant; **CHF 312'500**
- 2017 Main applicant, Swiss Life / Jubiläumsstiftung; **CHF 30'000**
- 2016 Award from the Bern Immunology Club: "BIC prize – best paper – 2015" (Mager *et al.*, JCI, 2015)
- 2015 Main applicant, **Fondazione San Salvatore**; 24 months project grant; **CHF 120'000**
- 2015 Main applicant, **Swiss National Science Foundation**; 36 months project grant; **CHF 525'000**
- 2015 Main applicant, **Vontobel Foundation**; 18 months project grant; **CHF 130'000**
- 2015 Main applicant, **Olga Mayenfisch Foundation**; 12 months project grant; **CHF 23'000**
- 2015 Co-main applicant with Lukas Mager, MD
Foundation Johanna Dürmüller-Bol; contributing grant; **CHF 20'000**
- 2014 Main applicant, **Swiss Cancer League (SKL)**; 12 months grant; **CHF 124'350**
- 2014 Co-main applicant with Yara Banz, MD, PhD
Stiftung für klinisch-experimentelle Tumorforschung; 12 months grant; **CHF 80'000**
- 2013 Main applicant, **Marie Curie Career Integration Grants (CIG)**; 48 months grant; € **100'000**
- 2012 “*Apparatus for Colonoscopy and Endoscopic Manipulations in Mice*” (Equipment grant; total CHF 108'000)
Main applicant, **Swiss National Science Foundation**, equipment grant (**R'Equip Grant**)
- 2012 Main applicant, **Award from the Berne University Research Foundation** (Equipment grant; CHF 16'090)
- 2012 Coapplicant; **Swiss National Science Foundation**; 40 months project grant; CHF 395'391. Collaboration, no money for group Philippe Krebs)
- 2012 Main applicant, **Swiss National Science Foundation**; 36 months project grant; **CHF 377'366**

Total direct grant money raised and received since Oct. 2011: 4'087'192 CHF

- 10.08-03.10 and 07.10-06.11 “*A forward genetic approach to uncover novel molecules required for NK cell function and CD8⁺ T cell priming*”; The Scripps Research Institute, Prof. Bruce Beutler
Swiss National Science Foundation, 18 + 12 months fellowship for advanced researchers
- 15.09.06-14.09.08 “*Identification and characterization of new molecular components of the innate immune system*”;
The Scripps Research Institute, Prof. Bruce Beutler
European Molecular Biology Organization (EMBO); 24 months fellowship
- 11.04.06-11.04.06 “*Identification and characterization of new molecular components of the innate immune system*”;
The Scripps Research Institute, Prof. Bruce Beutler
Swiss National Science Foundation/ETHZ, 12 months fellowship (gratefully declined)

Reviewer (journals)	Ann NY Acad Sci, Nature Communications, Proc Natl Acad Sci, Gastroenterology, Cell Death & Disease, J. Clin. Invest., EMBO Journal, EMBO reports, EMBO Molecular Medicine, Cancer Research, British Journal of Cancer, eLife, Current Neuropharmacology, Clinical and Translational Medicine, British Journal of Haematology, OncoImmunology, Journal of Leukocyte Biology, Cancers, Allergy, Int Arch Allergy Immunol, Virus Research, Journal of Immunology Research, Mol Cancer Res, Cancer Med., Cellular Physiology and Biochemistry, Drugs of Today, JCI Insight, Clinical and Experimental Allergy, Journal of Experimental & Clinical Cancer Research, European Journal of Inflammation, European Journal of Immunology, Scientific Reports, The FEBS Journal, Technology in Cancer Research & Treatment, Microbiome, Cytokine, Journal of Experimental & Clinical Cancer Research, Clinical & Experimental Metastasis, International Journal of Molecular Sciences; International Immunopharmacology, Journal for Immunotherapy of Cancer, Review Commons, Journal of Interferon and Cytokine Research, Bioengineered, Clinical and Translational Medicine, Cell Reports, Advanced Science, eLife, FEBS Open Bio, Journal of Advanced Research Since 2014, Review Editor for Frontiers in Immunology, section Microbial Immunology. Ad hoc editor for PNAS.
Reviewer (foundations)	Swiss Cancer League, French National Research Agency, Leukaemia & Lymphoma Research UK (Bloodwise), Medical Research Council (UK), Belgian Foundation against Cancer, Health Research Board (Ireland), The Kay Kendall Leukaemia Fund (UK), Israel Science Foundation, Worldwide Cancer Research, French National Cancer Institute (INCa; panel member of the Scientific Evaluation Committee in 2017, 2018 and 2020; invited assignment kindly declined for 2019), Dutch Research Council.
Collaborations	<p>National:</p> <p>Prof. Christoph Müller, Prof. Aurel Perren, Prof. Alessandro Lugli, Prof. Inti Zlobec, PD Dr. Yara Banz, Institute of Tissue Medicine and Pathology, University of Bern Prof. Andrew Macpherson, University Hospital of Bern Prof. Adrian Ochsenbein, University Hospital of Bern Prof. Guido Beldi, University Hospital of Bern Prof. Markus G. Manz and PD Dr. Alexandre Theodorides, University Hospital Zurich Prof. Radek C. Skoda, University of Basel Prof. Nicolas Bonadies, PD Dr. Alicia Rovó, University Hospital of Bern Prof. B. Ludewig, Prof. N. Pikor, Institute of Immunobiology, St-Gallen Prof. Christophe von Garnier, CHUV / University of Lausanne PD. Dr. Marco Alves, Institute of Virology and Immunology, Vetsuisse Faculty, University of Bern</p> <p>International:</p> <p>Prof. Bruce Beutler, UT Southwestern Medical Center, Dallas, TX, USA Prof. Kathy McCoy, University of Calgary, Canada Prof. Karl Lang, University of Duisburg-Essen, Essen, Germany Prof. Astrid Westendorf, University of Duisburg-Essen, Essen, Germany</p>
Memberships	Swiss Biosafety Network (SBNet) since 2012 Swiss Society for Allergology and Immunology (SSAI) since 2013 European Academy of Tumor Immunology since 2016

Teaching

Yearly since 2013	Lecture for students of the Fachhochschule Bern on cellular pathology and inflammation
Yearly since 2013	Lecture for a course on transgenic mouse technology, “Random mutagenesis”, for MSc and PhD students in life sciences, UniBE
2013-2016	Lecture “Molecular mechanisms of inflammation” for medical students, UniBE
Starting 2012	Member of the Expert Commission of the Graduate School for Cellular and Biomedical Sciences, University of Bern; mentor (total of 24 PhD students) and thesis co-advisor (total of 10 PhD students)
Yearly since 2012	Lecture in molecular pathology “Animal models of diseases” for biology students, UniBE
Yearly since 2012	Coordinator and lecturer of the course “Histology and general pathology for biology students”, UniBE
Yearly since 2012	Tutor for Problem Based Learning (PBL) cases for medical students, UniBE
2012-2016	Lecture “Cellular pathology” and “Molecular mechanisms of inflammation” for students in dental medicine, UniBE
2012-	Co-organizer of the practical course in immunology for biology students, UniBE

Supervised students

BSc students (6 weeks)	2013: Langenegger Maya
BSc students (10 weeks)	2017: Pascal Guntern 2018: Benjamin Grädel 2020: Silvio John Eugster
MSc students (6 months)	2016-2017: Petra Polakova 2019: Patrick von Delden 2020: Margaux Bringardner 2021-2022: Océane Derivaz
MSc students (≥ 1 year)	2013-early 2015: Ivonne Koeck 2013-early 2015: Marie-Hélène Wasmer 2015-2016: Michael Berger 2016-2018: Ioannis Kritikos 2020-2022: Silvio John Eugster 2021-2022: Fatlind Malsiu
MD thesis students	2021-2022: Lukas Bauer
PhD students	
2011-2015	Lukas Mager, MD, awarded a Boehringer Ingelheim Fonds PhD fellowship and the 2016 Dr. Lutz Zwillenberg Prize of the University of Bern for his thesis project " <i>Molecular dissection of microbe-induced immunopathology</i> "
2013-2017	Ludmila Cardoso-Alves, MSc
2015-2018	Marie-Hélène Wasmer, MSc
2016-2020	Lester Thoo, MSc
2018-2023	Vivian Vu, MSc
2018-2023	Wen Jie (Jeremy) Yeoh, MSc
Since 05.09.22	Anja Herbst, MSc
Postdoctoral fellows	
2015-2017	Lukas Mager, MD-PhD (Fellowship from Gertrud Hagmann Foundation)
2017-2018	Ludmila Cardoso-Alves, PhD
Since 14.09.20	Robert Anthony Gaultney, PhD (Seal of excellence for Marie Skłodowska-Curie fellowship application H2020-MSCA-IF-2020; score of 91%)
Since 01.10.23	Wen Jie (Jeremy) Yeoh, MSc

Diverse

<i>Triathlon</i>	39/235 age group / 235/1653 overall at Ironman World Championship (long distance triathlon); 9:53:29; 2009, Kailua-Kona, HI, USA 1/212 age group / 25/2076 overall at Ironman Arizona; 09:08:21; 2008, Tempe, AZ, USA 33/86 age group / 198/1688 overall at Ironman World Championship; 9:37:37; 2005, Kailua-Kona, HI, USA
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Publication list – Philippe Krebs**Complete List of Published Work in MyBibliography:**

<https://www.ncbi.nlm.nih.gov/myncbi/1-UBBaDsUMCk/bibliography/public/>
or: <https://pubmed.ncbi.nlm.nih.gov/?term=krebs+philippe&sort=date>

Published Work**Research articles**

56. Fatemeh Safari, Wen Jie Yeoh, Saskia Perret-Gentil, Frank Klenke, Silvia Dolder, Willy Hofstetter#, **Philippe Krebs#**
SHIP1 deficiency causes inflammation-dependent retardation in skeletal growth.
Life Sci Alliance. 2024 Feb 22;7(5):e202302297. doi: 10.26508/lsa.202302297. Print 2024 May.
#shared senior and corresponding authors
55. Christian Perez-Shibayama, Cristina Gil-Cruz, Nadine Cadosch, Mechthild Lutge, Hung-Wei Cheng, Angelina De Martin, Kira Frischmann, Anna Joachimbauer, Lucas Onder, Iliana, Papadopoulou, Chrysa Papadopoulou, Sandra Ring, **Philippe Krebs**, Vivian P. Vu, Matthias P. Nagele, Valentina A. Rossi, Danae Parianos, Valentin W. Zsilavec, Leslie T. Cooper, Andreas Flammer, Frank Ruschitzka, Peter Rainer, Dorte Schmidt and Burkhard Ludewig
Bone morphogenic protein-4 availability in the cardiac microenvironment controls myocardial inflammation and fibrosis
Nature Cardiovascular Research. (2024). <https://doi.org/10.1038/s44161-024-00432-0>
54. Sarah Ennis, Alessandra Conforte, Eimear O'Reilly, Tatiana Cichocka, Sukhraj Pal Dhani, Pamela Nicholson, **Philippe Krebs**, Pilib Ó Broin, Eva Szegezdi
Single-cell characterisation of the hematopoietic bone marrow interactome in health and disease
iScience. 2023 May 23;26(6):106943. <https://doi.org/10.1016/j.isci.2023.106943>
53. Marianna Carone, Marianne R. Spalinger, Robert A. Gaultney, Raffaele Mezzenga, Kristýna Hlavačková, Aart Mookhoek, **Philippe Krebs#**, Gerhard Rogler#, Paola Luciani#, Simone Aleandri#.
Temperature-triggered in situ forming lipid mesophase gel for local treatment of ulcerative colitis
Nat Commun. 2023 Jun 13;14(1):3489. doi: 10.1038/s41467-023-39013-3.
#shared senior and corresponding authors
52. van Os L, Yeoh J, Witz G, Ferrari D, **Krebs P**, Chandorkar Y, Zeinali S, Sengupta A, Guenat OT.
Immune cell extravasation in an organ-on-chip to model lung inflammation.
Eur J Pharm Sci. 2023 Aug 1;187:106485. doi: 10.1016/j.ejps.2023.106485. Epub 2023 Jun 2.
51. Hojjat Alizadeh Zeinabada, Wen Jie Yeoh, Maryam Arif, Mihai Lomora, Yara Banz, Carsten Riether, **Philippe Krebs**, Eva Szegezdi.
Natural killer cell-mimic nanoparticles can actively target and kill acute myeloid leukemia cells
Biomaterials. 2023 Jul;298:122126. doi: 10.1016/j.biomaterials.2023.122126. Epub 2023 Apr 15.
50. Sarah Grabherr, Alexandra Waltenspühl, Lorina Büchler, Mechthild Lütge, Hung-Wei Cheng, Sonja Caviezel-Firner, Burkhard Ludewig, **Philippe Krebs**, Natalia B. Pikor.
Dysregulation and Immunopathology during Pulmonary Murine Coronavirus Infection
J Immunol. 2023; ji2200533. <https://doi.org/10.4049/jimmunol.2200533>
49. Alessandra Gurtner, Costanza Borrelli, Ignacio Gonzalez-Perez, Karsten Bach, Ilhan E Acar, Nicolás G Núñez, Daniel Crepaz, Kristina Handler, Vivian P Vu, Atefeh Lafzi, Kristin Stirm, Deeksha Raju, Julia Gschwend, Konrad Basler, Christoph Schneider, Emma Slack, Tomas Valenta, Burkhard Becher, **Philippe Krebs**, Andreas E Moor*, Isabelle C Arnold*
Active eosinophils regulate host defense and immune responses in colitis.
Nature. 2022 Dec 12. doi: 10.1038/s41586-022-05628-7. Online ahead of print.
48. Vu Thuy Khanh Le-Trillinga, Jana-Fabienne Ebel, Franziska Baier, Kerstin Wohlgemuth, Kai Robin Pfeifer, Aart Mookhoek, **Philippe Krebs**, Madita Determann, Benjamin Katschinski, Alexandra Adamczyk, Erik Lange, Robert Klopfleisch, Christian M. Lange, Viktoriya Sokolova, Mirko Trilling & Astrid M. Westendorf
Acute cytomegalovirus infection modulates the intestinal microbiota and targets intestinal epithelial cells.
Eur J Immunol. 2022 Oct 17. doi: 10.1002/eji.202249940. Online ahead of print

47. Noti L, Galván JA, Dawson H, Lugli A, Kirsch R, Assarzadegan N, Messenger D, **Krebs P**, Berger MD, Zlobec I.
A combined spatial score of granzyme B and CD68 surpasses CD8 as an independent prognostic factor in TNM stage II colorectal cancer.
BMC Cancer. 2022 Sep 16;22(1):987. doi: 10.1186/s12885-022-10048-x.
46. Sandra Ring, Jovana Cupovic, Lucas Onder, Mechthild Luetge, Christian Perez-Shibayama, Cristina Gil-Cruz, Elke Scandella, Angelina De Martin, Urs Mörbe, Fabienne Hartmann, Robert Wenger, Matthias Spiegl, Andrej Besse, Weldy Bonilla, Felix Stemeseder, Sarah Schmidt, Klaus Orlinger, **Philippe Krebs**, Burkhard Ludewig*, and Lukas Flatz*.
Viral vector-mediated reprogramming of the fibroblastic tumor stroma I sustains curative melanoma treatment.
Nature communications. 2021 Aug 5;12(1):4734. doi: 10.1038/s41467-021-25057-w.
45. Cupovic J, Ring SS, Onder L, Colston JM, Lütge M, Cheng HW, De Martin A, Provine NM, Flatz L, Oxenius A, Scandella E, **Krebs P**, Engeler D, Klenerman P, Ludewig B.
Adenovirus vector vaccination reprograms pulmonary fibroblastic niches to support protective inflating memory CD8+ T cells.
Nat Immunol. 2021 Aug;22(8):1042-1051. doi: 10.1038/s41590-021-00969-3. Epub 2021 Jul 15.
44. Ercolano G, Gomez-Cadena A, Dumauthioz N, Vanoni G, Kreutzfeldt M, Wyss T, Michalik L, Loyon R, Ianaro A, Ho PC, Borg C, Kopf M, Merkler D, **Krebs P**, Romero P, Trabanelli S, Jandus C.
PPAR γ drives IL-33-dependent ILC2 pro-tumoral functions.
Nature communications. 2021 May 5;12(1):2538. doi: 10.1038/s41467-021-22764-2.
43. Adamczyk A, Pastille E, Kehrmann J, Vu VP, Geffers R, Wasmer MH, Kasper S, Schuler M, Lange CM, Muggli B, Rau TT, Klein D, Hansen W, **Krebs P**, Buer J, Westendorf AM.
GPR15 facilitates the recruitment of regulatory T cells to promote colorectal cancer.
Cancer Res. 2021 Jun 1;81(11):2970-2982. doi: 10.1158/0008-5472.CAN-20-2133. Epub 2021 Mar 16.
42. Palmieri V, Ebel JF, Ngo Thi Phuong N, Klopffleisch R, Vu VP, Adamczyk A, Zöllner J, Riedel C, Buer J, **Krebs P**, Hansen W, Pastille E, Westendorf AM.
Interleukin-33 signaling exacerbates experimental infectious colitis by enhancing gut permeability and inhibiting protective Th17 immunity.
Mucosal Immunol. 2021 Jul;14(4):923-936. doi: 10.1038/s41385-021-00386-7. Epub 2021 Mar 2.
41. Duhan V, Khairnar V, Kitanovski S, Hamdan TA, Klein AD, Lang J, Ali M, Adomati T, Bhat H, Friedrich SK, Li F, **Krebs P**, Futerman AH, Addo MM, Hardt C, Hoffmann D, Lang PA, Lang KS.
Integrin alpha E (CD103) limits virus-induced IFN-I production in conventional dendritic cells
Front. Immunol. 2021 Jan 27;11:607889. doi: 10.3389/fimmu.2020.607889. eCollection 2020.
40. Leimkühler NB, Gleitz HFE, Ronghui L, Snoeren IAM, Fuchs SNR, Nagai JS, Banjanin B, Lam KH, Vogl T, Kuppe C, Stalman USA, Büsche G, Kreipe H, Gütgemann I, **Krebs P**, Banz Y, Boor P, Tai EW, Brümmendorf TH, Koschmieder S, Crysandt M, Bindels E, Kramann R, Costa IG, Schneider RK.
Heterogeneous bone-marrow stromal progenitors drive myelofibrosis via a druggable alarmin axis.
Cell Stem Cell. 2021 Apr 1;28(4):637-652.e8. doi: 10.1016/j.stem.2020.11.004. Epub 2020 Dec 9.
39. Lee S, Sears MJ, Zhang Z, Li H, Salhab I, **Krebs P**, Xing Y, Nah HD, Williams T, Carstens RP
*Cleft lip and cleft palate in *Esrp1* knockout mice is associated with alterations in epithelial-mesenchymal crosstalk.*
Development. 2020 Apr 30;147(21):dev187369. doi: 10.1242/dev.187369
38. Cardoso Alves L, Berger MD, Koutsandreas T, Kirschke N, Lauer C, Spörri R, Chatziioannou A, Corazza N, **Krebs P**#
Non-apoptotic TRAIL function modulates NK cell activity during viral infection.
EMBO Rep. 2020 Jan 7;21(1):e48789. doi: 10.15252/embr.201948789. Epub 2019 Nov 19.
#senior and corresponding author
37. Pastille E, Wasmer MH, Adamczyk A, Vu VP, Mager L, Phuong NNT, Palmieri V, Simillion C, Hansen W, Kasper S, Schuler M, Muggli B, McCoy KD, Buer J, Zlobec I, Westendorf AM#, **Krebs P**##
The IL-33/ST2 pathway shapes the regulatory T cell phenotype to promote intestinal cancer.
Mucosal Immunol. 2019 Jul;12(4):990-1003. doi: 10.1038/s41385-019-0176-y. Epub 2019 Jun 5.
#shared senior and corresponding authors

36. Schürch CM, Roelli MA, Forster S, Wasmer MH, Brühl F, Maire RS, Di Pancrazio S, Ruepp MD, Giger R, Perren A, Schmitt AM, **Krebs P**, Charles RP, Dettmer MS
Targeting CD47 in anaplastic thyroid carcinoma enhances tumor phagocytosis by macrophages and is a promising therapeutic strategy.
Thyroid. 2019 Jul;29(7):979-992. doi: 10.1089/thy.2018.0555. Epub 2019 May 10.
35. Saurer L, Zysset D, Rihs S, Mager L, Gusberti M, Simillion C, Lugli A, Zlobec I, **Krebs P**, Mueller C.
TREM-1 promotes intestinal tumorigenesis.
Sci Rep. 2017 Nov 1;7(1):14870. doi: 10.1038/s41598-017-14516-4.
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34. Mager LF, Koelzer VH, Stuber R, Thoo L, Keller I, Koeck I, Langenegger M, Simillion C, Pfister SP, Faderl M, Genitsch V, Tymbarevich I, Juillerat P, Li X, Xia Y, Karamitopoulou E, Lyck R, Zlobec I, Hapfelmeier S, Bruggmann R, McCoy KD, Macpherson AJ, Müller C, Beutler B, **Krebs P**.
The ESRP1-GPR137 axis contributes to intestinal pathogenesis.
Elife. 2017 Oct 4;6. pii: e28366. doi: 10.7554/eLife.28366.
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Autophagy inhibition improves sunitinib efficacy in pancreatic neuroendocrine tumors via a lysosome-dependent mechanism.
Mol Cancer Ther. 2017 Nov;16(11):2502-2515. doi: 10.1158/1535-7163.MCT-17-0136.
32. Siggs OM, Popkin DL, **Krebs P**, Li X, Tang M, Zhan X, Zeng M, Lin P, Xia Y, Oldstone MB, Cornall RJ, Beutler B.
Mutation of the ER retention receptor KDELR1 leads to cell-intrinsic lymphopenia and a failure to control chronic viral infection.
Proc Natl Acad Sci U S A. 2015 Oct 20;112(42):E5706-14.
31. Mertz KD, Mager LF, Wasmer MH, Thiesler T, Koelzer VH, Ruzzante G, Joller S, Murdoch JR, Brümmendorf T, Genitsch V, Lugli A, Cathomas G, Moch H, Weber A, Zlobec I, Junt T, **Krebs P**.
The IL-33/ST2 pathway contributes to intestinal tumorigenesis in humans and mice.
Oncoimmunology. 2015 Jun 26;5(1).
#senior and corresponding author
30. Mager LF, Riether C, Schürch CM, Banz Y, Wasmer MH, Stuber S, Theocharides AP, Li X, Xia Y, Saito H, Nakae S, Baerlocher GM, Manz MG, McCoy KD, Macpherson AJ, Ochsenbein AF, Beutler B, **Krebs P**.
IL-33 signaling contributes to the pathogenesis of myeloproliferative neoplasms.
J Clin Invest. 2015 Jul 1;125(7):2579-91
#senior and corresponding author
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29. Arnold CN, Barnes MJ, Berger M, Blasius AL, Brandl K, Croker B, Crozat K, Du X, Eidenschenk C, Georgel P, Hoebe K, Huang H, Jiang Z, **Krebs P**, La Vine D, Li X, Lyon S, Moresco EM, Murray AR, Popkin DL, Rutschmann S, Siggs OM, Smart NG, Sun L, Tabeta K, Tomisato W, Webster V, Won S, Xia Y, Xiao N, Beutler B.
ENU-induced phenovariance in mice: inferences from 587 mutations.
BMC Res Notes. 2012 Oct 24;5(1):577.
28. Blasius AL, **Krebs P**, Sullivan BM, Oldstone MB, Popkin DL.
Slc15a4, a gene required for pDC sensing of TLR ligands, is required to control persistent viral infection.
PLoS Pathog. 2012 Sep;8(9)
27. Wingender G, Stepniak D, **Krebs P**, Lin L, McBride S, Wie B, Braun J, Mazmanian SK, Kronenberg M.
Intestinal microbes modulate the phenotype and function of mouse invariant Natural Killer T cells.
Gastroenterology. 2012 Aug;143(2):418-28.
26. **Krebs P**, Fan W, Chen YH, Tobita K, Downes MR, Wood MR, Sun L, Li X, Xia Y, Ding N, Spaeth JM, Moresco EM, Boyer TG, Lo CW, Yen J, Evans RM, Beutler B.
Lethal mitochondrial cardiomyopathy in a hypomorphic Med30 mouse mutant is ameliorated by ketogenic diet.
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