

Curriculum Vitae

Dr. Anna Brichkina, PhD

Group leader

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DOB: 17.04.1978, Saint-Petersburg, Russia

Education

2006 PhD degree, Institute of Cytology, Rus. Acad. of Sci., Saint-Petersburg, Russia

2001 University degree, St.-Petersburg State University, Russia (summa cum laude)

Scientific career

Since 2023 Group leader, Institute of Systems Immunology, Center for Tumor Biology and Immunology, Philipps University Marburg

2016 - 2023 Senior scientist, Center for Tumor Biology and Immunology, Philipps University Marburg

2014 - 2016 Junior group leader and Principal Investigator (2014 – 2016 acting head of the lab), Institute of Molecular and Cellular Biology, A*STAR, Singapore

2009 - 2014 Research fellow, Research fellow, National Cancer Centre, Singapore

2007 - 2009 Research fellow, National Cancer Centre, Singapore

2006 – 2007 Postdoctoral fellow, Institute for Age Research, Jena, Germany

2002 – 2004 Exchanged PhD student, Institute of Toxicology and Genetics, FZ Karlsruhe, Germany

1998 – 2007 Lab assistant, PhD student and staff scientist, Institute of Cytology, Russian Academy of Sciences, Saint-Petersburg, Russia

Awards and Honors

2020 Anneliese Pohl – Habilitationsförderung, Philipps-Universität Marburg

2018 Stipendium der Novartis-Stiftung für therapeutische Forschung

2014 JCO Career Development Award (A*STAR, Singapore)

2003 visiting scientist fellowship, FZ Karlsruhe, Germany

2002, 2003 two personal grants for young scientists, Russia

2002 personal Leonard Euler Fellowship, Germany/Russia

2001 personal George Soros' scholarship, Russia

Selected Publications

1. **Brichkina A**, Ems M, Suezov R, Singh R, Lutz V, Picard F, Nist A, Stiewe T, Graumann J, Daude M, Diederich W, Finkernagel F, Chung H-R, Bartsch D, Roth K, Keber C, Denkert C, Huber M, Gress T, Lauth M. DYRK1B blockade promotes tumoricidal macrophage activity in pancreatic cancer. **Gut** 2024 (accepted). IF 25.2
2. Karimova A, Ketkar A, Suezov R, Khalitova A, Gomzikova M, Mukhamedshina Y, Lauth M, Huber M, Simon H-U, **Brichkina A**. In vitro functional assays to assess the reciprocal interplay between tumor cells and macrophages. **The FASEB Journal**. 2024 (accepted). IF 5.2
3. **Brichkina A***, Simon H-U*. A novel role for mitochondrial fission in macrophages: trained innate immunity induced by beta-glucan. **Cell Mol Immunology**. 2023 Apr 17 DOI: 10.1038/s41423-023-01017-w. IF 24.1
4. Erukashvily NI, Ponomartsev NV, Ketkar A, Suezov R, Chubar AV, Prjibelski AD, Shafranskaya DD, Elmshäuser S, Keber CU, Stefanova VN, Akopov AL, Klingmüller U, Pfefferle PI, Stiewe T, Lauth M, **Brichkina A**. Pericentromeric satellite lncRNAs are induced in cancer-associated fibroblasts and regulate their functions in lung tumorigenesis. **Cell Death Dis**. 2023 Jan 12;14(1):19. IF 9.68 DOI: 10.1038/s41419-023-05553-1
5. Picard F*, Lutz V*, **Brichkina A***, Neuhaus F, Ruckenbrod T, Hupfer A, Raifer H, Klein M, Bopp T, Pfefferle PI, Savai R, Prinz I, Waisman A, Moos S, Chang HD, Heinrich S, Bartsch DK, Buchholz M, Singh S, Tu M, Klein L, Bauer C, Liefke R, Burchert A, Chung HR, Mayer P, Gress TM, Lauth M, Gaida M, Huber M. IL-17A-producing CD8+ T cells promote PDAC via induction of inflammatory cancer-associated fibroblasts. **Gut**. 2023 Feb 9;gutjnl-2022-327855. IF 31.8 . DOI: gutjnl-2022-327855
6. **Brichkina A**, Polo P, Dharamvir Sharma S, Visestamkul N, Lauth M. A quick guide to CAF subtypes in pancreatic cancer. **Cancers**. 2023 May 4;15(9):2614 IF 6.57 DOI: 10.3390/cancers15092614
7. Hupfer A, **Brichkina A**, Koeniger A, Keber C, Denkert C, Pfefferle P, Helmprobst F, Pagenstecher A, Visekruna A, Lauth M. Matrix stiffness drives stromal autophagy and promotes formation of a protumorigenic niche. **PNAS**. 2021 Oct 5 doi: 10.1073/pnas.2105367118. IF 12.78
8. Novoselova M, Loh HM, Trushina D, Ketkar A, Abakumova T, Zatsepin T, Kakran M, Brzozowska A, Hong LH, Gorin D, Antipina M, **Brichkina A**. Biodegradable Polymeric Multilayer Capsules for Therapy of Lung Cancer. **ACS Applied Materials and Interfaces** 12, 5610-5623, 2020. IF 10.38 DOI: 10.1021/acsmi.9b21381
9. **Brichkina A**, Bertero T, Loh HM, Nguyen NTM, Emelyanov A, Rigade S, Ilie M, Hofman P, Gaggioli C, Bulavin DV. p38MAPK builds a hyaluronan cancer niche to drive lung tumorigenesis. **Genes Dev** 30, 2623–2636, 2016. IF 13.62. DOI: 10.1101/gad.290346.116.
10. **Brichkina A**, Nguyen NT, Baskar R, Wee S, Gunaratne J, Robinson RC, Bulavin DV. Proline isomerisation as a novel regulatory mechanism for p38MAPK activation and functions. **Cell Death Differ** 23, 1592-601, 2016. IF 12.89 DOI: 10.1038/cdd.2016.45
11. Le Guezennec X, **Brichkina A**, Huang YF, Kostromina E, Han W, Bulavin DV. Wip1-dependent regulation of autophagy, obesity, and atherosclerosis. **Cell Metabolism** 16, 68-80, 2012. IF 35.1 DOI: 10.1016/j.cmet.2012.06.003

Patents

1. Suezov R, **Brichkina A**. Biodegradable particles for drug- or gene delivery. WO 2023/242216 A1. Philipps University of Marburg.

Citation Record

Total citations: 594; h-index:8 (Google Scholar 23.05.2023). ORCID: 0000-0001-8707-9900