

Candidate statement

I studied biology and have since specialized in the field of immunology and microbiology. Scientifically I grew up at the German Rheumatism Research Center (DRFZ) under the mentorship of Prof. Andreas Radbruch, a leading figure in the field of cytometry and former president of ISAC.

In my research group, the Schwiete Laboratory Microbiota and Inflammation, we study the role of the intestinal microbiota in the pathogenesis of chronic inflammatory diseases. For this, we have developed innovative cytometric assays to analyze the microbiota on the single-cell level. I am a full professor and hold the chair of cytometry at the Technische Universität Berlin. At the same time, I am also scientific head of the flow cytometry and cell sorting core facility of the DRFZ and head of all technology platforms of the DRFZ. So I know the perspective of the science and SRL side.

As past president of the German Society for Cytometry and current chair of the ISAC Membership Services Committee, I have had the privilege to experience and get to know many aspects of cytometry and the people involved.

A huge strength of ISAC is the engagement of its members and the organization into committees and task forces. As treasurer I would like to foster and strengthen cross-fertilization and more collaboration between the different committees and task forces towards concerted efforts to increase growth of ISAC. Through directed funding, such cross-committee initiatives, with potentially larger impact could be incentivized. At the same time a transparent budget structure needs to be fostered with prior definition of clear outcome measures in the short-, mid- and long-term to be able to judge efficiency, impact of spending and return-of-investment.

Traditionally a society with a major focus on flow cytometry, ISAC needs to expand into other fields of "cytometry" which are growing significantly in research and clinical fields. These include spatial cytometry and single cell sequencing technologies. Strategic expansion into these fields, with provision of educational material, guidelines and standards will not only integrate other interest groups and research fields into ISAC, but prepares ISAC for future developments and opens additional opportunities for fund raising.

Another important goal will be to disseminate the CYTO brand truly internationally, which will again open up opportunities to access funding sources outside of the U.S. At the same time, it is important to keep membership and educational benefits affordable for underprivileged groups. ISAC already has a huge international network through its international members whose potential only needs to be tapped.

Curriculum vitae

Prof. Dr. rer. nat. Hyun-Dong Chang

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ACADEMIC CAREER

since 10/2025 Leader of Technology Platforms at the Deutsches Rheuma-Forschungszentrum Berlin, a Leibniz Institute (DRFZ Berlin)

since 12/2020 Full professor, Chair of Cytometry, Institute for Biotechnology, Technische Universität Berlin

since 01/2018 Head of the Schwiete Laboratory Microbiota and Inflammation at the Deutsches Rheuma-Forschungszentrum Berlin, a Leibniz Institute (DRFZ Berlin)

since 06/2012 Scientific head of the Flow Cytometry and Cell Sorting Core Facility (FCCF) of the DRFZ Berlin

10/2007 – 12/2017 Staff scientist in the Cell Biology group at the DRFZ Berlin

10/2005 – 09/2007 Postdoctoral fellow at the DRFZ Berlin and Humboldt Universität Berlin

EDUCATION

2024 Certification as “Certified Immunologist DGfI” by the German Society for Immunology

2017 Habilitation at the Humboldt Universität Berlin: *Adaptation of T helper lymphocytes to chronic inflammation*, mentors: Prof. Dr. Andreas Radbruch and Prof. Dr. Richard Lucius

10/1999 – 09/2005 Doctorate (Dr. rer. nat.) in the group of Prof. Andreas Radbruch at the DRFZ Berlin
„*Regulation of the expression of the cytokine interleukin-10 in T helper lymphocytes*“, (final grade: *summa cum laude*)

03/1999 – 09/1999 visiting scholar, Cancer Center, University of California San Diego (UCSD)

03/1998 – 02/1999 Diploma thesis in the group of Prof. Dr. Maurizio Zanetti at the Cancer Center, University of California San Diego (UCSD)
“Studies on the mechanism of somatic transgene immunization: the uptake of plasmid DNA by B lymphocytes”

09/1992 – 02/1999 Study of Biology at the Freie Universität Berlin (final grade: very good)

OTHER ACTIVITIES

since 2024 Chair of the Membership Services Committee of ISAC

2015, 2018, 2021,

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| 2024 | Organisation of Satellite Symposia „Advanced Flow Cytometry“ at the European Congress of Immunology (ECI) |
| 2014 – 2016 | President of the German Society for Cytometry (DGfZ) |
| 2015, 2016 | Organisation of the 25th and 26th Annual Meeting of the German Society for Cytometry |
| 2010 – 2014 | Council of the German Society for Cytometry |
| 2016, 2017, 2018, 2025, 2026 | Member of the program committee for CYTO |
| 2013 | Member of the organization team of the EMBO course “Intravital Microscopy, Flow Cytometry and Cell Sorting” |
| since 2009 | Organisation committee of the „Spring School for Immunology“ of the German Society for Immunology |
| since 2015 | Faculty member of the Autumn School for Immunology and Translational School for Immunology of the German Society for Immunology |
| since 2019 | Associate Editor, Frontiers in Immunology |
| since 2021 | Council member of HCDM (Human Cell Differentiation Molecules) |