

CURRICULUM VITAE

Sabine Flicker, PhD

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Personal data:

Place of birth: Vienna
Nationality: Austrian

Education:

07.11.2000 Graduation to Doctor of Science, Genetics
1996-2000 PhD thesis at the Department of Pathophysiology and Allergy Research,
Medical University of Vienna
31.01.1996 Graduation to Master of Science, Genetics
1994-1995 Diploma thesis at the Department of Internal Medicine I,
Medical University of Vienna
1989-1995 Subject of study: Biology, Genetics (University of Vienna)
29.05.1989 High school degree

Career History:

Since 2015 Assoc. Professor (permanent position)
Since 2009 Independent group leader at the Institute of Pathophysiology and Allergy
Research
15.12.2009 Head of the group "Antibody research" at the Institute of Pathophysiology and
Allergy Research, Medical University of Vienna
09.10.2009 Habilitation in "Allergologie", Privatdozent
2000-2009 Postdoc at the Division of Immunopathology (Head: Prof. Rudolf Valenta),
Institute of Pathophysiology and Allergy Research, Medical University of Vienna

Projects as independent project leader:

2020-2024 Danube ARC- Subproject (Country of Lower Austria)
"Allergen-specific approaches targeting the nasal mucosa for treatment and
prevention of allergy"
2019-2024 International joint project of the Austrian Science Fund (FWF) and Russian
Foundation of Basic Research (RFBR)
"ICAM1 and allergen-specific nanobodies for allergy treatment"
2016-2020 SFB-Subproject of the Austrian Science Fund (FWF), extension
"Allergen-specific antibodies for therapy and prevention of allergy"
2012-2016 SFB-Subproject of the Austrian Science Fund (FWF)
"Allergen-specific antibodies for therapy and prevention of allergy"
2011-2015 Stand alone project of the Austrian Science Fund (FWF)
"Regulatory role of allergen-specific antibodies"
2006-2010 „Brückenschlagprogramm“ of the Austrian Research Promotion Agency (FFG)
"Therapie von Allergien mit Allergen-spezifischen Antikörpern"

2003-2006 "Hertha Firnberg Scholarship" of the Austrian Science Fund (FWF)
"Allergen-specific antibodies for therapy of Type I allergy"

Career-related activities:

2014, 2015 Visiting scientist in the laboratory of Prof. Walter Keller at the Institute of Molecular Biosciences, BioTechMed, University of Graz, Graz, Austria

2009 Training: "Scientific writing", Vienna, Austria

2007 Visiting scientist in the laboratory of Prof. Stefan Vieths at the Division of Allergology, Paul Ehrlich Institute, Langen, Germany

2006 "Einführung in die Durchflusszytometrie" (FACS), Austrian Society for Cytometry

2006 „Die Patentierung biotechnologischer Erfindungen. Aktuelle Debatte und Perspektive", Academy of European Law (ERA)

2005-2007, 2022 "Biacore Basic and Advanced Training", Vienna, Austria

2005 Visiting scientist in the laboratory of Prof. Harald Renz at the Department of Clinical Chemistry and Molecular Diagnostics, University of Marburg, Germany

Memberships:

Member of the Austrian Society for Allergology and Immunology (ÖGAI)
Member of the European Academy of Allergology and Clinical Immunology (EAACI)

Reviewer activities:

Allergy
Clinical and Experimental Allergy
Cancer Immunology Immunotherapy
Frontiers of Allergy, Frontiers of Immunology
Immunology Letters
Immunobiology
International Archives of Allergy and Immunology
Journal of Immunology
Journal of Immunology Research
Molecular Immunology
PLOS ONE
Scientific Reports

Editorial board member:

Frontiers of Allergy
Scientific Reports

Supervision of undergraduate and graduate students:

2023-2024 Supervision of the Master Thesis of Barbara Pranz, BSc
Title: Generation and immunological characterization of pollen-specific multivalent nanobodies

2022-2023 Supervision of the Master Thesis of Clarissa Bauernfeind, BSc
Title: Characterization of allergen-specific mono- and multivalent nanobodies

2021	Supervision of the Bachelor Thesis of Elena Pesce <u>Title:</u> Identification of a novel ICAM-1 domain that is decisive for rhinovirus binding
Since 2021	Supervision of the PhD thesis of Ines Zettl, MSc <u>Title:</u> Nanobodies for passive treatment of allergy
2020	Supervision of the PhD thesis of Jessica Kollárová, MSc <u>Title:</u> Engineering of recombinant antibody derivatives bispecific for ICAM-1 and Bet v 1 for allergy treatment
2019-2021	Supervision of the Master thesis of Ines Zettl, BSc <u>Title:</u> Characterization of Bet v 1-specific nanobodies for passive treatment of type I allergy
2018-2019	Supervision of the Master thesis of Christina Weichwald, BSc <u>Title:</u> Allergen-specific and ICAM1-specific antibody fragments and nanobodies
2017-2019	Supervision of the Master thesis of Daniel Ivanov, BSc <u>Title:</u> Immunological characterization of somatic hypermutated allergen-specific antibodies and their germline counter-parts
2012-2019	Supervision of the PhD thesis of Nazanin Najafi, MSc <u>Title:</u> IgE-dependent effector cell activation
2009-2014	Co-Supervisor of the PhD thesis of Christoph Madritsch, MSc <u>Title:</u> Isolation of grass pollen specific IgE variable regions to study mechanisms of effector cell degranulation
2007-2009	Co-Supervisor of the Diploma thesis of Christoph Madritsch <u>Title:</u> Allergen-specific IgE antibodies
2006-2012	Co-Supervisor of the PhD thesis of Elisabeth Gadermaier, MSc <u>Title:</u> Allergen-specific antibodies
2004-2006	Co-Supervisor of the Diploma thesis of Elisabeth Gadermaier <u>Title:</u> Characterization of allergen-specific antibodies
2002-2005	Co-Supervisor of the PhD thesis of Ingrid Rauter, MSc <u>Title:</u> Regulation of IgE-mediated allergic inflammation
Since 1997	Short-term supervisions of more than 20 students (molecular biology, biochemistry, pharmacy, medicine)

Teaching and Lectures:

2021, 2023, 2024	“MCCA Thesis Seminar: B cells and antibodies”, assigned
2021	Postgradualer Zertifikatslehrgang „Allergologie und Klinische Immunologie“, assigned (Karl Landsteiner University), assigned
2020, 2023	“MCCA: “Lecture, Seminar and Course Series on Allergic Priming and Effector Phases”, assigned
2019, 2024	“MCCA: Lecture on B-cells, Antibodies & Receptors”, assigned
2019	“TS B cells and antibodies”, assigned
2018-2024	“Block 8, Abwehr I und II”, assigned
2018	“MCCA: Thesis seminar on B cells and antibodies”, assigned
2015-2017	“Type I-IV hypersensitivity reactions”, assigned (Karl Landsteiner University)
2015	“MCCA: Lecture on B-cells, Antibodies & Receptors”, assigned
2014-2024	”Stimulating Friday Seminar”, assigned
2012	“Humoral immune responses”, assigned
2011, 2014, 2015	“TS B cells and Antibodies“, assigned

2010-2013	“Journal Club and Progress report”, assigned
2008	“Molekulare Allergologie“, assigned
2007	“Ziele und Methoden in der Allergologie“, assigned
2006-2010	“Immunologische Übungen“, assigned
2006	“Immunologische Hauptvorlesung“, substitute
2003, 2004	“Immunologische Übungen“, assigned
2001, 2002	“Immunologische Übungen“, substitute

Invited lectures:

2024	<u>Title:</u> Evaluierung von Nanobodies als Passivimpfstoff für Allergien. Medizin Aktuell, Insektengiftreaktionen und Therapie, Gesellschaft der Ärzte, Vienna, Austria
2023	<u>Title:</u> Allergen-spezifische Immuntherapie, Else Kröger Fellowship Seminar, Vienna, Austria
2017	<u>Title:</u> Allergen-specific antibodies- from basic findings towards feasible applications. ZAUM - Technische Universität München, Munich, Germany
2016	<u>Title:</u> Nicht-invasive Behandlung von Pollenallergien. Pirquet Club, Vienna, Austria, Pirquet Club, Vienna, Austria
2013	<u>Title:</u> Allergen-spezifische Antikörper- diagnostische und therapeutische Möglichkeiten. Pirquet Club, Innsbruck, Austria
2011	<u>Title:</u> To study allergen structure with monoclonal antibodies. European Academy of Allergy and Clinical Immunology, Istanbul, Turkey
2011	<u>Title:</u> Recombinant human antibodies for diagnosis, treatment and prevention of allergy. Charite, Berlin, Germany
2010	<u>Title:</u> Recombinant antibodies for defining the allergen structure, 4 th ISMA, Munich, Germany
2008	<u>Title:</u> Allergen-specific antibodies for prevention, diagnosis and treatment of Type I allergy. UK-SH Universitätsklinikum Schleswig-Holstein, Kiel, Germany
2008	<u>Title:</u> Allergy treatment with allergen-specific antibodies. 25 th meeting of API, Berlin, Germany
2005	<u>Title:</u> The role of IgE and IgG antibodies in allergic inflammation and asthma, III European Asthma Congress, Athens, Greece
2002	<u>Title:</u> A grass pollen allergen-specific human IgE antibody recognizing immunoglobulin-like domains. 6th Latin American Immunology Congress, Havana, Cuba

Patents:

EP1351988, WO2002053595 A1, Group 2 allergen-specific IgG and use thereof (2000)
 EP2032603, WO2007134350 A2, Antibodies specific for Bet v 1 and use thereof in prevention and treatment of Bet v 1 induced disease (2006)
 EP15154521.7, WO2016128487, Bi-specific antibody conjugates ICAM1/allergen (2015)
 EP20180358.2, Rhinovirus assay (2020)