

## Ao.Univ.Prof.Dr. Fátima Ferreira

Ao.Univ.Prof. am FB Molekulare Biologie der Universität Salzburg



Fachbereich Molekulare Biologie

Christian Doppler Laboratory for Allergy Diagnosis and Therapy

Universität Salzburg

### Persönliches

geboren 1959 in Cachoeira de Goias, Brasilien

seit 1997: Österreichische Staatsbürgerschaft

Familienstand: verheiratet

Sprachen: Portugiesisch, Englisch, Deutsch

Hobbies: Musik, Tanz, Lesen, Kino, Kochen

### Ausbildung / Berufslaufbahn

1978-81 Studium der Zahnheilkunde in Brasilien, Abschluss als Doktor der Zahnheilkunde

1982-87 Graduiertenstudium Biochemie, Abschluss als Doktor der Biochemie (PhD)

1988-90 Post-doctoral Fellowship an der Universität Toronto, Kanada

1990-98 Vertragsassistentin an der Universität Wien und Salzburg

1998 Verleihung des akademischen Grades "Mag.rer.nat" von der Universität Wien

1998 Universitätsassistentin an der Universität Salzburg

2000 Habilitation an der Universität Salzburg

seit 2000 Ao.Univ.Prof. am FB Molekulare Biologie der Universität Salzburg

### Aktuelles Arbeitsgebiet

- Allergieforschung
- Rekombinant hergestellte Allergene

### Laufende Forschungsprojekte

- FWF S8801-B01 - Schwerpunkt Koordinationsprojekt "Immunobiology of allergens and allergen-specific immune responses"

Eine Initiative des Bundesministeriums für Verkehr, Innovation und Technologie im Rahmen von fFORTE

- FWF S8802-B01 - "Characterization of mugwort and ragweed pollen allergens"
- FWF – P16456-B05 - "Development of allergen vaccines by gene shuffling"
- ÖNB Jubiläumsfondsprojekt Nr 10150 - "Characterization of naturally processed peptides of allergens and hypoallergens"
- CREATE - EU GRD2-2000-30032 - "Development of certified reference materials for allergenic products and validation of methods for their quantification"
- Kooperationsprojekt mit Firma Biomay - "Development of diagnostic and therapeutics for weed pollen allergy"
- Christian Doppler Research Association – „New approaches in pollen allergy diagnosis and therapy based on recombinant allergens and genetic immunization with allergen-genes“ – Christian Doppler Laboratory for allergy diagnosis and therapy.

### Mitgliedschaften

European Academy of Allergology and Clinical Immunology (EAACI)  
 Austrian Society of Genetics and Gene Technology (ÖGGGT)  
 Austrian Society of Allergology and Immunology ÖGAI)  
 Collegium Internationale Allergologicum (CIA)  
 Allergen Standardization Committee of the World Health Organization/International Union of Immunological Societies  
 ÖGAI-nominated Austrian delegate for the World Allergy Organization (WAO)  
 Allergen Nomenclature Subcommittee of World Health Organization/International Union of Immunological Societies (WHO/IUIS)  
 Scientific Advisory Board of Indoor Biotechnologies Inc, Charlottesville, VA, USA

### Auszeichnungen

- 1996 "Clemens von Pirquet" prize for Allergy research from the Austrian Society of Allergy and Immunology,
- 1998 "Kulturfonds der Landeshauptstadt Salzburg" prize for research from the City of Salzburg, October/
- 2000 Science Week Project: "Salzburger Wissenschaftler erklären die Allergie". Presentation in a Shopping mall in Salzburg (Europark), awarded as outstanding by the Science Week Office.
- 2005 Förderpreis Wissenschaft/Forschung der Kulturfonds der Stadt Salzburg

### Scientific Community Services

- 2000 – 2005 Coordinator of the FWF Schwerpunkt „Immunobiology of allergens and allergen-specific immune responses“, S88-B01
- 2000 Coordinator of the School project "Allergie: SchülerInnen erforschen eine Zivilisationskrankheit" together with the Science Education Team and HBLA Ursprung
- 2003 President of the Local Organization Committee of the Austrian Society of Allergology and Immunology Annual Meeting
- 2005 – 2007 Member of the Scientific Advisory Board of Indoor Biotechnologies Inc, Charlottesville, VA, USA
- 2005/6 Member of the Local Organization Committee of the European Academy of Allergology and Immunology Annual Meeting in Vienna, 2006
- 2005 - 2007 Referee for the FWF  
 Member of the Editorial Board of the "International Archives of Allergy and Immunology"  
 Member of the Editorial Board of "Allergy", the European Journal of Allergy and Clinical immunology  
 Referee for several Scientific Journals  
 Supervision of more than 24 Diploma and PhD thesis.

### Aktivitäten zur Förderung von Frauen

Meiner Arbeitsgruppe besteht hauptsächlich aus Diplomandinnen, Dissertantinnen und weibl. Post-Docs, die ich auch bei ihrer weiteren Karriereplanung tatkräftig unterstütze.

### Interview über Fátima Ferreira und ihre Arbeit

[http://www.allergenvermeidung.org/news/news\\_190505\\_1.shtml](http://www.allergenvermeidung.org/news/news_190505_1.shtml)

<http://www.w-fforte.at/150.0.html?L=0>

<file:///Users/fatimaferreira/CD%20labor/Presse-CD%20labor/ORF%20ON%20Science%20-%20Neues%20Christian-Doppler-Labor%20für%20Allergiediagnostik.webarchive>

### Statement „Frauen in der naturwissenschaftlich-technischen Berufen/ Forschung“

If society wants to have more women attracted and retained in Science and Technology, legal equality alone is not enough. A whole spectrum of initiatives is needed to eradicate gender inequities: from individual efforts (parents, teachers) to national interventions (formally established programs).

### Ausgewählte Publikationen

Asero, R., Wopfner, N., Gruber, P., Gadermaier, G., Ferreira, F. Artemisia and ambrosia hypersensitivity: co-sensitisation or co-recognition? *Clin Exp Allergy* 36: 658-665, 2006

Egger, M., Mutschlechner, S., Wopfner, N., Gadermaier, G., Briza, P., Ferreira, F. Pollen-food-syndromes associated with weed pollinosis. *Allergy* 61:461-476, 2006

Ferreira, F., Briza, P., Inf,hr, D., Schmidt, G., Wallner, M., Wopfner, N., Thalhamer, J., Achatz, G. Modified recombinant allergens for safer immunotherapy. *Inflammation & Allergy - Drug Targets* 5: 5-14, 2006

Weiss, R. Scheibelhofer, S., Gabler, M., Ferreira, F., Leitner, W.W., Thalhamer, J. Is genetic vaccination against allergy possible? *Int. Arch. Allergy Immunol.* 139: 332-345, 2006

Wopfner, N., Gadermaier, G., Egger, M., Asero, R., Ebner, C., Jahn-Schmidt, B., Ferreira, F. The spectrum of allergens in ragweed and mugwort pollen. *Int. Arch. Allergy Immunol.* 138:337-346, 2005

Leonard, R., Petersen, B.O., Himly, M., Kaar, W., Wopfner, N., Kolarich, D., van Ree, R., Ebner, C., Duus, J.Ø., Ferreira, F., Altmann, F. Two novel types of O-glycans on the mugwort pollen allergen Art v 1 and their role in antibody binding. *J. Biol. Chem.* 280:7932-7940, 2005

Jahn-Schmid, B., Fischer, G., Bohle, B., Fae, I., Gadermaier, G., Dedic, A., Ferreira, F., Ebner, C. Antigen presentation of the immunodominant T cell epitope of the major mugwort pollen allergen, Art v 1, is associated with the expression of HLA-DRB1\*01. *J. Allergy Clin. Immunol.* 115: 399-404, 2005

Ferreira, F., Hawranek, T., Gruber, P., Wopfner, N., Mari, A. Allergic cross-reactivity: from gene to the clinic. *Allergy* 59: 243-267, 2004

Ferreira, F., Wallner, M., Thalhamer, J. Customized antigens and immunomodulations for desensitizing allergic patients. *Adv. Immunol.* 84: 79-129, 2004

Gadermaier, G., Dedic, A., Obermeyer, G., Frank, S., Himly, M., Ferreira, F. Biology of weed pollen allergens. *Current Allergy and Asthma Rep.* 4:391-400, 2004

Wallner, M., Gruber, P., Radauer, C., Maderegger, B., Susani, M., Hoffman-Sommergruber, K., Ferreira, F. Lab scale and medium production of recombinant allergens in *Escherichia coli*. *Methods* 32: 219-226, 2004

Himly, M., Jahn-Schmid, B., Dedic, A., Kelemen, P., Wopfner, N., Altmann, F., van Ree, R., Briza, P., Richter, K., Ebner, C., Ferreira, F. (2002). Art v 1, the major allergen of mugwort pollen is a modular glycoprotein with a defensin-like and a hydroxyproline-rich domain. *FASEB J* 17:106-8, 2003

Jahn-Schmid, B., Kelemen, P., Himly, M., Bohle, B., Fischer, G., Ferreira, F., Ebner, C. The T cell response to Art v 1, the major mugwort pollen allergen, is dominated by one epitope. *J. Immunol.* 169: 6005-6011, 2002

Ferreira, F., Wallner, M., Breiteneder, H., Hartl, A., Thalhamer, J., Ebner, C. Genetic engineering of allergens: Future therapeutic products. *Int. Arch. Allergy Immunol.* 128: 171-178, 2002

komplette Publikationsliste verfügbar unter:

**Fátima Ferreira, nominiert als Forscherin des Monats September 2005**

[http://www.uni-salzburg.at/portal/page?\\_pageid=146,66336&\\_dad=portal&\\_schema=PORTAL](http://www.uni-salzburg.at/portal/page?_pageid=146,66336&_dad=portal&_schema=PORTAL)

### Patente

Ferreira, F., Jilek, A., Ebner, C., Kraft, D., Richter, K., Breitenbach, M. Recombinant 60 kDa plant pan-allergen (Cofactor independent Phosphoglycerate mutase; E.C. 5.4.2.1), A 1320/95 from 02.08.1995.

Ferreira, F., Richter, K., Himly, M., Engel, E., Ebner, C., Kraft, D., Breitenbach, M. Recombinant major allergen of *Artemisia vulgaris* (mugwort) pollen, A 539/98 from 26.06.1998.

Ferreira, F. Hubinger, G., Ebner, C., Richter, K. Allergen from mugwort pollen. European patent application 02.012302.2 from 04.06.2002.

G. Achatz, S. Barth, F. Ferreira, F. Fischer, K. Huhn, S. Klockenbring, E. Luger, K. Stöcker. Isolation Allergen-spezifischer Immunglobulin-Gene aus humanen B-Zellen von Atopikern. Europäische Patentanmeldung: eingereicht im März 2003.

### Weiterführende Links

<http://www.uni-salzburg.at/ferreira>

[http://www.uni-salzburg.at/portal/page?\\_pageid=146,404957&\\_dad=portal&\\_schema=PORTAL](http://www.uni-salzburg.at/portal/page?_pageid=146,404957&_dad=portal&_schema=PORTAL)