Prof. Natalija Novak, MD

Department of Dermatology and Allergy

Rheinische Friedrich-Wilhelms-Universität Bonn

Department of Dermatology and Allergy

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Research Expertise

Pathophysiology of atopic dermatitis including genetic changes, regulation of the surface expression of the high affinity receptor for IgE on dendritic cells, role of IgE receptor bearing Langerhans cells and inflammatory dendritic epidermal cells, predictive factors for atopy in cord-blood, development and characterization of new therapeutic strategies for atopic dermatitis, role of dendritic cells in the oral and nasal mucosa.

Education / Training

University of Bonn, Germany, Medicine, MD., 1998

Appointments / Positions Held

2008 - present
Full Professor of Dermatology and Allergy, University of Bonn, Germany

2009
Board, Andrology, University of Bonn, Germany

2006 - 2007
Visiting scientist, Heisenberg-Fellowship, Swiss Institute of Allergy and Asthma Research, Davos, Switzerland

2004
Board, Allergy, University of Bonn, Germany

2003
Assistant Professor, Dermatology and Allergy, University of Bonn, Germany

Assistant to Medical Director, Dermatology, University of Bonn, Germany

Board, Dermatology, University of Bonn, Germany

Honors / Awards

2014
Allergopharma Award

2012
Henning-Löwenstein Award World Allergy Organization

2008
Phadia International Award on Allergy Research, Phadia

2007
Heisenberg-Professorship, German Research Council

2006
Heisenberg-Fellowship, German Research Council
Travel Award EAACI Vienna, Austria

2005
Heinz Maier-Leibnitz Award, German Research Council
Research Award Atopische Dermatitis, Dermatologikum Hamburg Young Investigator Travel Award, ISAD Meeting Acachand

2004
Karl-Hansen Memorial Award, German Society for Allergology and Immunology (DGAKI)

2003
Fujisawa "Young Investigator Achievements Award in Atopic Dermatitis Research" Award, Herbert-Reeck-Society
Honourable Mention Diploma Pharmacia Research Foundation
Travel Award EAACI Meeting, Davos, Switzerland
Erich-Hoffmann Memorial Award

2002
Herbert-Herxheimer Award, German Society for Allergology and Immunology (DGAKI)

2002
BONFOR Award

10 Most Relevant Publications for Prof. Natalija Novak

1. Yu CF, Peng WM, Oldenburg J, Hoch J, Bieber T, Limmer A, Hartmann G, Barchet W, Eis-Hubinger AM, **Novak N**. 2010. Human plasmacytoid dendritic cells support Th17 cell effector function in response to TLR7 ligation. J Immunol 184: 1159-67.

2. Allam JP, Würtzen PA, Reinartz M, Winter J, Vrtala S, Chen KW, Valenta R, Wenghoefer M, Appel T, Gros E, Niederhagen B, Bieber T, Lund K, **Novak N**. 2010. Phl p 3 resorption in human oral mucosa leads to dose-dependent and time-dependent allergen binding by oral mucosal Langerhans cells, attenuates their maturation, and enhances their migratory and TGF-β1 and IL-10 producing properties. J Allergy Clin Immunol 126: 638-45.

3. Gros E, Bussmann C, Bieber T, Forster I, **Novak N**. 2009. Expression of chemokines and chemokine receptors in lesional and nonlesional upper skin of patients with atopic dermatitis. J Allergy Clin Immunol 124: 753-60 e1.

4. Esparza-Gordillo J, Weidinger S, Folster-Holst R, Bauerfeind A, Ruschendorf F, Patone G, Rohde K, Marenholz I, Schulz F, Kerscher T, Hubner N, Wahn U, Schreiber S, Franke A, Vogler R, Heath S, Baurecht H, **Novak N**, Rodriguez E, Illig T, Lee-Kirsch MA, Ciechanowicz A, Kurek M, Piskackova T, Macek M, Lee YA, Ruether A. 2009. A common variant on chromosome 11q13 is associated with atopic dermatitis. Nat Genet 41: 596-601.

5. Kwiek B, Peng WM, Allam JP, Langner A, Bieber T, **Novak N**. 2008. Tacrolimus and TGF-beta act synergistically on the generation of Langerhans cells. J Allergy Clin Immunol 122: 126-32, 32 e1.

6. Weidinger S, Illig T, Baurecht H, Irvine AD, Rodriguez E, Diaz-Lacava A, Klopp N, Wagenpfeil S, Zhao Y, Liao H, Lee SP, Palmer CN, Jenneck C, Maintz L, Hagemann T, Behrendt H, Ring J, Nothen MM, McLean WH, **Novak N**. 2006. Loss-of-function variations within the filaggrin gene predispose for atopic dermatitis with allergic sensitizations. J Allergy Clin Immunol 118: 214-9.

7. **Novak N**, Valenta R, Bohle B, Laffer S, Haberstok J, Kraft S, Bieber T. 2004. FcepsilonRI engagement of Langerhans cell-like dendritic cells and inflammatory dendritic epidermal cell-like dendritic cells induces chemotactic signals and different T-cell phenotypes in vitro. J Allergy Clin Immunol 113: 949-57.

8. **Novak N**, Allam JP, Hagemann T, Jenneck C, Laffer S, Valenta R, Kochan J, Bieber T. 2004. Characterization of FcepsilonRI-bearing CD123 blood dendritic cell antigen-2 plasmacytoid dendritic cells in atopic dermatitis. J Allergy Clin Immunol 114: 364-70.

9. **Novak N**, Tepel C, Koch S, Brix K, Bieber T, Kraft S. 2003. Evidence for a differential expression of the FcepsilonRIgamma chain in dendritic cells of atopic and nonatopic donors. J Clin Invest 111: 1047-56.

10. **Novak N**, Bieber T, Katoh N. 2001. Engagement of Fc epsilon RI on human monocytes induces the production of IL-10 and prevents their differentiation in dendritic cells. J Immunol 167: 797-804