

## Curriculum vitae – Prof. Natalio Garbi

Date of birth; nationality: June 10<sup>th</sup>, 1967; Spanish  
Address: Institute for Experimental Immunology  
Sigmund-Freud-Str. 25, D-53105 Bonn, Germany  
Phone: +49-(0)228-28711138  
Fax: +49-(0)228-28711052  
E-mail: [ngarbi@uni-bonn.de](mailto:ngarbi@uni-bonn.de)

### Education, academic positions and functions

1986–1991 B.Sc. in Marine Biology, Universities of Valencia and La Laguna, Spain.  
1992–1993 M.Sc. in Aquatic Pathobiology, University of Stirling, U.K.  
1993 M.Sc. thesis, University of Stirling, U.K.  
1995–1999 Ph.D. thesis, University of Stirling, U.K.  
1999 Postdoctoral research fellow in the laboratory of Prof. Aoki, Tokyo University of Fisheries, Japan.  
1999–2006 Postdoctoral research fellow in the laboratory of Prof. Hämmerling, Division of Molecular Immunology, German Cancer Research Center DKFZ, Heidelberg.  
2007–2011 Group leader at the Division of Molecular Immunology, DKFZ.  
Since 2011 W2 professor, Department of Molecular Immunology, Institute of Experimental Immunology, Bonn.  
Since 2013 Member excellence cluster “ImmunoSensation” Bonn.  
Since 2014 Member of the BONFOR committee of the medical faculty that provides funding for medical thesis.

### Honors and awards

1993 *Royal Agricultural and Highlands Society* medal for the best overall performance in the M.Sc. Aquatic Veterinary Studies and M.Sc. Aquatic Pathobiology, University of Stirling.  
1995 Training and Mobility Fellowship by the European Commission ERB4001GT94/2422 .

### Research interests

- Regulation of adaptive and innate immune responses with a focus on pulmonary inflammation  
- Regulation of T cell antigen sensitivity

### 5 most important publications

1. Tittel AP, Heuser C, Ohliger C, Llanto C, Yona S, Hämmerling GJ, Engel DR, **Garbi N**<sup>\*</sup>, Kurts C<sup>\*</sup>. 2012. Functionally relevant neutrophilia in CD11c diphtheria toxin receptor transgenic mice. *Nat Methods*, 9:385-90. <sup>\*</sup>, joint last authorship.
2. Hochweller K, Wabnitz GH, Samstag Y, Suffner J, Hammerling GJ, **Garbi N**. 2010. Dendritic cells control T cell tonic signaling required for responsiveness to foreign antigen. *Proc Natl Acad Sci USA* 107: 5931-36.
3. **Garbi N**, Tanaka S, Momburg F, Hammerling GJ. 2006. Impaired assembly of the major histocompatibility complex class I peptide-loading complex in mice deficient in the oxidoreductase ERp57. *Nat Immunol* 7: 93-102.

4. Feuerer M<sup>\*</sup>, Beckhove P<sup>\*</sup>, **Garbi N<sup>\*</sup>**, Mahnke Y, Limmer A, Hommel M, Hammerling GJ, Kyewski B, Hamann A, Umansky V, Schirmacher V. 2003. Bone marrow as a priming site for T-cell responses to blood-borne antigen. *Nature Med* 9: 1151-7. <sup>\*</sup>, Joint authorship.
5. **Garbi N**, Tan P, Diehl AD, Chambers BJ, Ljunggren H-G, Momburg F, Hämmerling GJ. 2000. Impaired immune responses and altered peptide repertoire in tapasin-deficient mice. *Nat Immunol* 1: 234-8.

## E. Anhang I: Publikationen und Literaturverweise zum Forschungsprogramm

(**Bold**: member of this research initiative)

### **Natalio Garbi**

1. Hochweller K, Striegler J, Hämmerling GJ, and **Garbi N**. 2008. A novel CD11c.DTR transgenic mouse for depletion of dendritic cells reveals their requirement for homeostatic proliferation of natural killer cells. *Eur. J. Immunol.* 38: 2776-2783.
2. Halle S, Dujardin HC, Bakocevic N, Fleige H, Danzer H, Willenzon S, Suezer Y, Hammerling G, **Garbi N**, Sutter G, Worbs T, and Forster R. 2009. Induced bronchus-associated lymphoid tissue serves as a general priming site for T cells and is maintained by dendritic cells. *J Exp Med* 206: 2593-2601.
3. Hochweller K, Miloud T, Striegler J, Naik S, Hämmerling GJ, and **Garbi N**. 2009. Homeostasis of dendritic cells in lymphoid organs is controlled by regulation of their precursors via a feed-back loop. *Blood* 114: 4411-4421.
4. **Garbi N**, Hammerling GJ, Probst HC, and Van Den Broek M. 2010. Tonic T cell signalling and T cell tolerance as opposite effects of self-recognition on dendritic cells. *Curr Opin Immunol* 22: 601-608.
5. Hochweller K, Wabnitz GH, Samstag Y, Suffner J, Hammerling GJ, and **Garbi N**. 2010. Dendritic cells control T cell tonic signaling required for responsiveness to foreign antigen. *Proc Natl Acad Sci U S A* 107: 5931-5936.
6. Li X, Kostareli E, Suffner J, **Garbi N**<sup>\*</sup>, and Hammerling GJ<sup>\*</sup>. 2010. Efficient Treg depletion induces T-cell infiltration and rejection of large tumors. *Eur J Immunol* 40: 3325-3335. <sup>\*</sup>, joint last authorship.
7. Suffner J, Hochweller K, Kuhnle MC, Li X, Kroczeck RA, **Garbi N**, and Hammerling GJ. 2010. Dendritic cells support homeostatic expansion of Foxp3+ regulatory T cells in Foxp3.LuciDTR mice. *J Immunol* 184: 1810-1820.
8. Autenrieth SE, Warnke P, Wabnitz GH, Lucero Estrada C, Pasquevich KA, Drechsler D, Gunter M, Hochweller K, Novakovic A, Beer-Hammer S, Samstag Y, Hammerling GJ, **Garbi N**, and Autenrieth IB. 2012. Depletion of Dendritic Cells Enhances Innate Anti-Bacterial Host Defense through Modulation of Phagocyte Homeostasis. *PLoS Pathog* 8: e1002552.
9. Miloud T, Fiegler N, Suffner J, Hämmerling GJ, and **Garbi N**. 2012. Organ-specific cellular requirements for in vivo dendritic cell generation. *J Immunol* 188: 1125-1135.
10. Tittel AP, Heuser C, Ohliger C, Llanto C, Yona S, Hammerling GJ, **Engel DR**, **Garbi N**<sup>\*</sup>, and **Kurts C**<sup>\*</sup>. 2012. Functionally relevant neutrophilia in CD11c diphtheria toxin receptor transgenic mice. *Nature methods* 9: 385-390. <sup>\*</sup>, joint last authorship.
11. Manta C, Heupel E, Radulovic K, Rossini V, **Garbi N**, Riedel CU, and Niess JH. 2013. CX(3)CR1(+) macrophages support IL-22 production by innate lymphoid cells during infection with *Citrobacter rodentium*. *Mucosal Immunol* 6: 177-188.