

# Prof. Thomas Tüting, MD

Department of Dermatology and Allergy



Rheinische Friedrich-Wilhelms-Universität Bonn

Department of Dermatology and Allergy

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## Research Expertise

Role of UV irradiation and the immune system in the pathogenesis of melanoma; mechanisms of melanoma metastasis and therapy resistance; preclinical and clinical evaluation of approaches combining immunotherapies and other treatment modalities for melanoma; development of novel genetic mouse models to study inflammation-induced phenotypic plasticity and reciprocal interactions between melanoma, immune and endothelial cells in the perivascular niche.

## Education / Training

University of Frankfurt, Germany, MD, Thesis, 2000

University of Mainz, Germany, Dermatology and Allergic Diseases, Board Certification, 1998

University of Frankfurt School of Medicine, Medicine, MD, 1987

## Appointments / Positions Held

2015 - present Professor and Chairman, Department of Dermatology, University of Magdeburg, Germany

2001 - present Associate Professor and Laboratory Head, Experimental Dermatology, University of Bonn, Germany

2001 - present Clinical work, General and Oncologic Dermatology, University of Bonn, Germany

1998 - 2001 Clinical and Scientific Work, Department of Dermatology, University of Mainz, Germany

1995 - 1997 Research Fellow in Tumor Immunology and Gene Therapy, Department of Surgery, University of Pittsburgh School of Medicine, Pittsburgh, PA

1991 - 1995 Residency in Dermatology and Allergic Diseases, Department of Dermatology, Military Hospital Koblenz and University of Mainz, Germany

1988 - 1991 Drafted as Airforce Medical Officer, Fighter- Bomber Wing 33, Cochem, Germany

## Honors / Awards

2015 Photodermatology Research Award (Roche Posay)

2014 Arnold Rikli prize of the Jörg Wolff Stiftung

2014 German skin cancer research prize of the German skin cancer foundation

2009 Steigleder prize of the AG Dermatological Histology

2006 Translational Research prize of the AG Dermatological Research

2000 Research Award of the Erich Hoffmann Society, Bonn

## 10 Most Relevant Publications for Prof. Thomas Tüting

1. Baar M, Coquille L, Mayer H, Hölzel M, Rogava M, **Tüting T**, Bovier A. A stochastic model for immunotherapy of cancer. *Sci Rep* 6:24169, 2016.
2. Hölzel M, Landsberg J, Glodde N, Bald T, Rogava M, Riesenberg S, Becker AJ, Jonsson G, **Tüting T**. A preclinical model of malignant peripheral nerve sheath tumor-like melanoma is characterized by infiltrating mast cells. *Cancer Res* 76:251-63, 2015.
3. Riesenberg S, Groetchen A, Siddaway R, Bald T, Reinhardt J, Smorra D, Kohlmeyer J, Renn M, Phung B, Aymans P, Schmidt T, Hornung V, Davidson I, Goding CR, Jönsson G, Landsberg J, **Tüting T**, Hölzel M. MITF and c-Jun antagonism interconnects melanoma dedifferentiation with pro-inflammatory cytokine responsiveness and myeloid cell recruitment. *Nat Commun* 6:8755, 2015.
4. Bald T, Landsberg J, Lopez-Ramos D, Renn M, Glodde N, Jansen P, Gaffal E, Steitz J, Tolba R, Kalinke U, Limmer A, Jönsson G, Hölzel M, **Tüting T**. Immune-cell poor melanomas benefit from PD-1 blockade after targeted type I IFN activation. *Cancer Discovery* 4:674-87, 2014.
5. Bald T, Quast T, Landsberg J, Rogava M, Glodde N, Lopez-Ramos D, Kohlmeyer J, Riesenberg S, van den Boorn-Konijnenberg D, Hömig-Hölzel C, Reuten R, Schadow B, Weighardt I, Wenzel D, Helfrich I, Schadendorf D, Bloch W, Bianchi ME, Koch M, Fleischmann BK, Förster I, Kastenmüller W, Kolanus W, Hölzel M, Gaffal E, **Tüting T**. Ultraviolet radiation-induced inflammation promotes angiotropism and metastasis in melanoma. *Nature* 507:109-13, 2014.
6. Hölzel M, Bovier A, **Tüting T**. Plasticity of tumour and immune cells: a source of heterogeneity and a cause for therapy resistance? *Nat Rev Cancer*. 13:365-76, 2013.
7. Gaffal E, Cron M, Glodde N, Bald T, Kuner R, Zimmer A, Lutz B, **Tüting T**. Cannabinoid 1 receptors in keratinocytes modulate proinflammatory chemokine secretion and attenuate contact allergic inflammation. *J. Immunol.* 190:4929-36, 2013.
8. Gehrke N, Mertens C, Zillinger T, Wenzel J, Bald T, Zahn S, **Tüting T**, Hartmann G, Barchet W. Oxidative damage of DNA confers resistance to cytosolic nuclease TREX1 degradation and potentiates STING-dependent immune sensing. *Immunity*. 39:482-95, 2013.
9. Landsberg J, Kohlmeyer J, Renn M, Bald T, Rogava M, Cron M, Fatho M, Lennerz V, Wölfel T, Hölzel H, **Tüting T**. Melanomas resist T-cell therapy through inflammation-induced reversible dedifferentiation. *Nature*. 490:412-416, 2012.
10. Kohlmeyer J, Cron M, Landsberg J, Bald T, Renn M, Mikus S, Bondong S, Wikasari D, Gaffal E, Hartmann G, **Tüting T**. Complete regression of advanced primary and metastatic mouse melanomas following combination chemimmunotherapy. *Cancer Res* 69:6265-74, 2009.

\* These authors contributed equally