

Curriculum vitae

Anthony D. Ho, MD
Chair and Professor
Department of Medicine V
(Hematology, Oncology und Rheumatology)
University of Heidelberg
Germany

PROFESSIONAL TRAINING

1968 - 1970 Medical School, University of Innsbruck, Austria
1970 - 1974 Medical School, University of Heidelberg, Germany
1974 - 1975 Internship, Medical Center, University of Heidelberg
1975 - 1980 Training in Internal Medicine, Medical Center, University of Heidelberg
1980 - 1982 Training in Hematology and Oncology, Dept of Medicine V, University of Heidelberg
1990 Licentiate Examination of the Medical Council of Canada (LMCC)
1990 Specialist Certification in Internal Medicine and Fellowship, Royal College of Physicians and Surgeons of Canada
1994 License Examination, Medical Board of California, U. S. A.

ACADEMIC POSITIONS HELD

GERMANY

1983 - 1989 Associate Professor, University of Heidelberg
1989 - 1992 Professor of Medicine, (ausserplanmäßig), University of Heidelberg

UNITED KINGDOM

1982 - 1983 Honorary Lecturer, Department of Hematology, Royal Free Hospital and School of Medicine, Hampstead, London

CANADA

1990 - 1992 Full Professor, Department of Medicine, Faculty of Medicine, University of Ottawa
1990 - 1992 Director of Research and Head of Clinical Trials, Northeastern Ontario Regional Cancer Center, Sudbury, Ontario

UNITED STATES OF AMERICA

1992 - 1998 Professor of Medicine, Division of Hematology/Oncology, Department of Medicine, University of California, San Diego (UCSD), California, USA
1992 - 1998 Director of Bone Marrow Transplantation and Malignant Hematology Program, UCSD Cancer Center, University of California, San Diego, California
1996 - 1998 Co-Division-Chief, Division of Hematology-Oncology, University of California San Diego (UCSD), California, USA

GERMANY

Since 6.3.1998 Chair, Department of Medicine V, University of Heidelberg
Since October 2007 Senator of the Senate of the University of Heidelberg

HONORS, AWARDS, PATENTS

Best Doctors of America 1996, 1997, 1998
Member of the Central Ethics Committee for Stem Cell Research of the National Parliament, (Bundestag), Berlin since 2002
Member of the Heidelberg Academy of Sciences since 2003
Patent: US Patent „HIV-specific Ribozymes“ Patent Number 5, 670, 361 of 23.09.97

RESEARCH PROFILE

Stem cell transplantation as curative treatment for leukemia and lymphoma
Mesenchymal stem cells for regenerative medicine
Biology and cell divisions of stem cells – control mechanisms of self-renewal versus differentiation.
Interactions between stem cells and their niche – cellular determinants in controlling the long-term fate,

CURRENT RESEARCH FUNDING

Coordinator of a Program Project “START-MSC”, N1 GN0532 (Standardization for Regenerative Therapy – Mesenchymal Stem Cells), Members: 1. Klüter, Mannheim; 2. Ho, Heidelberg; 3. Besser, Berlin; 4. Franke, Heidelberg; 5. Albrecht Müller, Würzburg; 6. Stamm, Rostock; 7. Ott, Hannover; 8. Dresel, Heidelberg (for our own Department :76 000 EUR p.a.)

DFG 914/7-2: Asymmetric division as parameter for self-renewal of hematopoietic stem cells (105 000 EUR)

BMBF 01GN0107: Plasticity and engraftment potentials of stem cells derived from fetal liver, umbilical cord blood and adult marrow for neuronal differentiation

BMBF: NGFN-2:EP-S19T01: Genotypic characterization of mesenchymal stem cells (204 000 EUR p.a.)

Joachim-Siebeneicher-Foundation: Regulation of self-renewal of somatic stem cells by cellular determinants (40 000 EUR)

PUBLICATIONS:

A selection of 10 publications from recent years (out of a total of 387 Original articles)

1. Gottschling S, Saffrich R, Seckinger A, Krause U, Horsch K, Miesala K, **Ho AD** (2007): Human Mesenchymal Stroma Cells Regulate Initial Self-Renewing Divisions of Hematopoietic Progenitor Cells by a β_1 -Integrin-Dependent Mechanism. **Stem Cells** 25:798-806
2. Munder,M., Schneider,H., Luckner,C., Giese,T., Langhans,C.D., Fuentes,J.M., Kropf,P., Mueller,I., Kolb,A., Modolell,M., & Ho,A.D. (2006) Suppression of T-cell functions by human granulocyte arginase. **Blood**, **108**, 1627-1634.
3. Luft,T., Rodionova,E., Maraskovsky,E., Kirsch,M., Hess,M., Buchholtz,C., Goerner,M.,

- Schnurr, M., Skoda, R., & Ho, A. D. (2006) Adaptive functional differentiation of dendritic cells: integrating the network of extra- and intracellular signals. **Blood**, **107**, 4763-4769.
4. Giebel B, Zhang T, Beckmann J, Spanholtz J, Wernet P, **Ho AD**, Punzel M. Primitive human hematopoietic cells give rise to differentially specified daughter cells upon their initial cell division. **Blood** 107:2146-2152, 2006
 5. Wagner W, Saffrich R, Wirkner U, Eckstein V, Blake J, Ansorge A, Schwager C, Wein F, Miesala K, Ansorge W, **Ho AD**: Hematopoietic Progenitor Cells and Cellular Microenvironment: Behavioral and Molecular Changes upon Interaction, **Stem Cells**, 23:1180-1191, 2005.
 6. Munder M, Mollinedo F, Calafat J, Canchado J, Gil-Lamaignere C, Fuentes JM, Luckner C, Doschko G, Soler G, Eichmann K, Müller FM, **Ho AD**, Goerner M, Modolell M. Arginase I is constitutively expressed in human granulocytes and participates in fungicidal activity, **Blood** 105:2549-2556, 2005.
 7. Wagner W, Ansorge A, Wirkner U, Eckstein V, Schwager C, Blake J, Miesala K, Selig J, Saffrich R, Ansorge W, **Ho AD**: Molecular evidence for stem cell function of the slow-dividing fraction among human hematopoietic progenitor cells by genome-wide analysis, **Blood** 104:675-686, 2004.
 8. Luft T, Marakovsky E, Schnurr M, Knebel K, Kirsch M, Görner M, Skoda R, **Ho AD**, Nawroth P, Bierhaus A. Tuning the volume of the immune response: strength and persistence of stimulation determine migration and cytokine secretion of dendritic cells., **Blood** 104:1066-1074, 2004.
 9. Laufs S, Gentner, B, Nagy KZ, Jauch A, Benner A, Naundorf S, Kuehlcke K, Schiedlmeier B, **Ho AD**, Zeller WJ., & Fruehauf S: Retroviral vector integration occurs in preferred genomic targets of human bone marrow-repopulating cells, **Blood**, 101, 2191-2198, 2003.
 10. Neben K, Giesecke C, Schweizer S, **Ho AD**, Kramer A: Centrosome aberrations in acute myeloid leukemia are correlated with cytogenetic risk profile, **Blood** 101:289-291, 2003.