

# Curriculum Vitae – Univ.-Prof. Dr. med.univ. Herbert Strobl

## 1 – Person / Allgemeine Angaben

<b>Name</b>	Strobl, Herbert Univ.-Prof. Dr. med.univ., *15.11.1964, male
<b>Nationality</b>	Austrian
<b>Address</b>	Institut für Pathophysiologie und Immunologie, Med Uni Graz Heinrichstrasse 31A, 8010 Graz, Austria Phone: +43 (0) 6767576195, E-Mail: <a href="mailto:herbert.strobl@medunigraz.at">herbert.strobl@medunigraz.at</a>
<b>Position</b>	Professor, chairman

## 2 – Academic Education / Akademische Ausbildung mit Abschluss

1998-2001	Post doctoral fellow, Department of Molecular Pharmacology, Stanford University (Laboratory of Garry P Nolan), CA, USA
1984-1991	Study of Medicine, MD, University of Vienna, Austria

## 3 – Scientific Degrees / Wissenschaftliche Abschlüsse

2002	Habilitation (Immunology), University of Vienna
1999	Board certification in Immunology (Austrian Doctor's association)
1991	Promotion (Dr. med. Univ.), University of Vienna

## 4 – Academic Appointments / Beruflicher Werdegang ab Studienabschluss

2015- present	Chairman, Institute of Pathophysiology and Immunology, MUG
2015-present	Member of Senat of Medical University of Graz
2012-present	Full Professor of Immunology, Institute of Pathophysiology and Immunology, Medical University Graz, Austria
2001-2012	Associate Professor, Head of Division “Molecular biology of hematopoietic stem cells and dendritic cells”; Institute of Immunology, Medical University Vienna, Austria (2001-2004 VIRCC at Novartis, A-1230; 2004-2012 VCC, A-1090)
1996-1998	Clinical training in internal medicine, gynecology and surgery, AKH Vienna, Krankenhaus Lainz, Vienna
1994-1998	Lab Head, Institute of Immunology-VIRCC at Novartis Research Institute, University of Vienna
1991-1994	Research fellow and MD specialization in Immunology, Institute of Immunology, University of Vienna (PI Walter Knapp)

## 5 – Additional information / Sonstiges

2009-present	Subcommittee member IUIS nomenclature of blood monocytes and dendritic cells
2014-present	Board member of the Lanyar Foundation, Graz
2015-present	Member of Senat of Medical University of Graz

**6 – Honors ▪ Awards / Preise und Auszeichnungen (selected)**

- 2000 START Prize, FWF, Austria
- 2008 Member of the Austrian Academy of Science (Junge Kurie)
- 2013 Karl Landsteiner Prize to Lab publication (Bauer, JEM 2012)
- 2014 Karl Landsteiner Prize to Lab publication (Yasmin, JEM 2013)

**7 – Externally funded projects / geförderte Drittmittelprojekte**

- 2016-2019 FWF W1241 Doktoratskolleg MOLIN 2<sup>nd</sup> funding period  
total amount of funding: 185.300 € / principal investigator
- 2013-2017 FWF P2572 Role of microRNAs in epidermal Langerhans cell differentiation  
total amount of funding: 308.000 €
- 2009-2012 FWF P22058 Lineage commitment of epidermal Langerhans dendritic cells  
total amount of funding: 368.000 €
- 2007-2017 FWF W1212 Doktoratskolleg IAI, funding periods 1-3,  
amount of funding: 542.000 € / principal investigator
- 2007-2010 FWF P19425 Transcriptional control of human dendritic cell development  
total amount of funding: 351.000 €
- 2006-2009 OeNB 12111 Immune regulation through signal integration by dendritic cells  
total amount of funding: 70.000 €
- 2005-2009 FWF F23 Establishment and maintenance of immunological tolerance (SFB)  
total amount of funding: 453.000 €
- 2003-2005 OeNB 10294 identification of immune-regulatory signalling circuits  
total amount of funding: 70.000 €
- 2001-2007 FWF Y156 Functional genomics of human dendritic cell development (START)  
total amount of funding: 1.090.000 €

**8 – Publications / Publikationen**

- Madhura, M; Majdic, O; Cejka, P; Jutz, S; Puck, A; Gerwien, J; Steinberger, P; Zlabinger, G; **Strobl, H**; Stöckl, J; Engagement of distinct epitopes on CD43 induces different co-stimulatory pathways in human T cells. 2016. Immunology, in press
- Jimenez, K; Khare, V; Evstatiev, R; Kulnigg-Dabsch, S; Jambrich, M; **Strobl, H**; Gasche, C. Increased expression of HIF2 $\alpha$  during iron deficiency-associated megakaryocytic differentiation. J Thromb Haemost. 2015; 13(6):1113-1127
- Koffel, R; Meshcheryakova, A; Warszawska, J; Hennig, A; Wagner, K; Jorgl, A; Gubi, D; Moser, D; Hladik, A; Hoffmann, U; Fischer, MB; van den Berg, W; Koenders, M; Scheinecker, C; Gesslbauer, B; Knapp, S; **Strobl, H**. Monocytic cell differentiation from band-stage neutrophils under inflammatory conditions via MKK6 activation (vol 124, pg
- Fric, J; Lim, CX; Mertes, A; Lee, BT; Viganò, E; Chen, J; Zolezzi, F; Poidinger, M; Larbi, A; **Strobl, H**; Zelante, T; Ricciardi-Castagnoli, P. Calcium and Calcineurin-NFAT Signaling Regulate Granulocyte-Monocyte Progenitor Cell Cycle via Flt3-L. Stem Cells. 2014; 32(12):3232-3244
- Köffel, R; Meshcheryakova, A; Warszawska, J; Hennig, A; Wagner, K; Jörgl, A; Gubi, D; Moser, D; Hladik, A; Hoffmann, U; Fischer, MB; van den Berg, W; Koenders, M; Scheinecker, C; Gesslbauer, B; Knapp, S; **Strobl, H** Monocytic cell differentiation from band-stage neutrophils under inflammatory conditions via MKK6 activation. Blood. 2014; 124(17):2713-2724
- Konradi, S; Yasmin, N; Haslwanter, D; Weber, M; Gesslbauer, B; Sixt, M; **Strobl, H**. Langerhans cell maturation is accompanied by induction of N-cadherin and the

- transcriptional regulators of epithelial-mesenchymal transition ZEB1/2. *Eur J Immunol.* 2014; 44(2):553-560
- Strobl, H.** Inflammatory Langerhans cell differentiation. *Blood.* 2014; 124(15):2319-2320
- Yasmin, N; Bauer, T; Modak, M; Wagner, K; Schuster, C; Köffel, R; Seyerl, M; Stöckl, J; Elbe-Bürger, A; Graf, D; **Strobl, H.** Identification of bone morphogenetic protein 7 (BMP7) as an instructive factor for human epidermal Langerhans cell differentiation. *J Exp Med.* 2013; 210(12):2597-2610
- Yasmin, N; Konradi, S; Eisenwort, G; Schichl, YM; Seyerl, M; Bauer, T; Stöckl, J; **Strobl, H.**  $\beta$ -Catenin promotes the differentiation of epidermal Langerhans dendritic cells. *J Invest Dermatol.* 2013; 133(5):1250-1259
- Bauer, T; Zagórska, A; Jurkin, J; Yasmin, N; Köffel, R; Richter, S; Gesslbauer, B; Lemke, G; **Strobl, H.** Identification of Axl as a downstream effector of TGF- $\beta$ 1 during Langerhans cell differentiation and epidermal homeostasis. *J Exp Med.* 2012; 209(11):2033-2047
- Steinleitner, K; Rampetsreiter, P; Köffel, R; Ramanathan, G; Mannhalter, C; **Strobl, H;** Wieser, R. EVI1 and MDS1/EVI1 Expression During Primary Human Hematopoietic Progenitor Cell Differentiation into Various Myeloid Lineages. *Anticancer Res.* 2012; 32(11):4883-4889
- Torzicky, M; Viznerova, P; Richter, S; **Strobl, H;** Scheinecker, C; Foedinger, D; Riedl, E. Platelet endothelial cell adhesion molecule-1 (PECAM-1/CD31) and CD99 are critical in lymphatic transmigration of human dendritic cells. *J Invest Dermatol.* 2012; 132(4):1149-1157
- Eisenwort, G; Jurkin, J; Yasmin, N; Bauer, T; Gesslbauer, B; **Strobl, H.** Identification of TROP2 (TACSTD2), an EpCAM-like molecule, as a specific marker for TGF- $\beta$ 1-dependent human epidermal Langerhans cells. *J Invest Dermatol.* 2011; 131(10):2049-2057
- Matutes, E; Pickl, WF; Van't Veer, M; Morilla, R; Swansbury, J; **Strobl, H;** Attarbaschi, A; Hopfinger, G; Ashley, S; Bene, MC; Porwit, A; Orfao, A; Lemez, P; Schabath, R; Ludwig, WD. Mixed-phenotype acute leukemia: clinical and laboratory features and outcome in 100 patients defined according to the WHO 2008 classification. *Blood.* 2011; 117(11):3163-3171
- Jurkin, J; Schichl, YM; Koeffel, R; Bauer, T; Richter, S; Konradi, S; Gesslbauer, B; **Strobl, H.** miR-146a is differentially expressed by myeloid dendritic cell subsets and desensitizes cells to TLR2-dependent activation. *J Immunol.* 2010; 184(9):4955-4965
- Lemez, P; Attarbaschi, A; Béné, MC; Bertrand, Y; Castoldi, G; Forestier, E; Garand, R; Haas, OA; Kagialis-Girard, S; Ludwig, WD; Matutes, E; Mejstriková, E; Pages, MP; Pickl, W; Porwit, A; Orfao, A; Schabath, R; Starin, J; **Strobl, H;** Talmant, P; van't Veer, MB; Zemanová, Z; European Group for the Immunological Characterization of Leukemias (EGIL). Childhood near-tetraploid acute lymphoblastic leukemia: an EGIL study on 36 cases. *Eur J Haematol.* 2010; 85(4):300-308
- Steiner, M; Attarbaschi, A; Dworzak, M; **Strobl, H;** Pickl, W; Kornmüller, R; Haas, O; Gadner, H; Mann, G; Austrian Berlin-Frankfurt-Münster Study Group. Cytochemically myeloperoxidase positive childhood acute leukemia with lymphoblastic morphology treated as lymphoblastic leukemia. *J Pediatr Hematol Oncol.* 2010; 32(1):e4-e7
- van Zijl, F; Mall, S; Machat, G; Bauer, T; Pirker, C; **Strobl, H;** Berger, W; Bilban, M; Mikulits, W. A UNIQUE HUMAN MODEL OF EPITHELIAL TO MESENCHYMAL TRANSITION REVEALS AXL AS A KEY REGULATOR OF HEPATOCELLULAR CARCINOMA PROGRESSION. *J Hepatol.* 2010; 52: S351-S352.
- Ziegler-Heitbrock, L; Ancuta, P; Crowe, S; Dalod, M; Grau, V; Hart, DN; Leenen, PJ; Liu, YJ; MacPherson, G; Randolph, GJ; Scherberich, J; Schmitz, J; Shortman, K; Sozzani, S;

- Strobl, H**; Zembala, M; Austyn, JM; Lutz, MB. Nomenclature of monocytes and dendritic cells in blood. *Blood*. 2010; 116(16):e74-e80
- Göbel, F; Taschner, S; Jurkin, J; Konradi, S; Vaculik, C; Richter, S; Kneidinger, D; Mühlbacher, C; Bieglmayer, C; Elbe-Bürger, A; **Strobl, H**. Reciprocal role of GATA-1 and vitamin D receptor in human myeloid dendritic cell differentiation. *Blood*. 2009; 114(18):3813-3821
- Koffel, R; Jorgl, A; Meshcheryakova, A; Fischer, MB; Scheinecker, C; **Strobl, H**. CONDITIONAL INDUCTION OF MKK6-P38 MAPK SIGNALLING IN GRANULOCYTES INDUCES PHENOTYPIC CHANGES TO MONOCYTE-LIKE CELLS. *HAEMATOL-HEMATOL J*. 2009; 94: 451-451.
- Platzer, B; Richter, S; Kneidinger, D; Waltenberger, D; Woisetschläger, M; **Strobl, H**. Aryl hydrocarbon receptor activation inhibits in vitro differentiation of human monocytes and Langerhans dendritic cells. *J Immunol*. 2009; 183(1):66-74
- Richter, S; Platzer, P; Woisetschläger, M; Waltenberger, D; **Strobl, H**. ARYL HYDROCARBON RECEPTOR ACTIVATION PERTURBS MYELOID SUBLINEAGE DIFFERENTIATION BY INHIBITING PU.1 UPREGULATION. *HAEMATOL-HEMATOL J*. 2009; 94: 3-3.
- Jurkin, J; Gobel, F; Taschner-Mandl, S; Lang, R; **Strobl, H**. A functional genetic approach to identify factors involved in Langerhans cell differentiation. *WIEN KLIN WOCHENSCHR*. 2008; 120: 81-81.
- Koffel, R; Jorgl, A; **Strobl, H**. A Tet-On inducible system for dissecting signalling processes in epithelial Langerhans cells: Identification of RelB as an inhibitor of LC maturation. *WIEN KLIN WOCHENSCHR*. 2008; 120: 82-82.
- Meshcheryakova, A; Koeffel, R; Joergl, A; **Strobl, H**. MKK6-p38MAPK signalling is sufficient to reprogram granulopoietic cells to monocytes. *WIEN KLIN WOCHENSCHR*. 2008; 120: 105-105.
- Richter, S; Platzer, B; Waltenberger, D; Woisetschläger, M; **Strobl, H**. Aryl hydrocarbon receptor (AhR) activation perturbs myeloid sublineage differentiation by inhibiting PU.1 upregulation. *WIEN KLIN WOCHENSCHR*. 2008; 120: 95-96.
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- Jörgl, A; Platzer, B; Taschner, S; Heinz, LX; Höcher, B; Reisner, PM; Göbel, F; **Strobl, H**. Human Langerhans-cell activation triggered in vitro by conditionally expressed MKK6 is counterregulated by the downstream effector RelB. *Blood*. 2007; 109(1):185-193
- Taschner, S; Koesters, C; Platzer, B; Jörgl, A; Ellmeier, W; Benesch, T; **Strobl, H**. Down-regulation of RXRalpha expression is essential for neutrophil development from granulocyte/monocyte progenitors. *Blood*. 2007; 109(3):971-979
- Heinz, LX; Platzer, B; Reisner, PM; Jörgl, A; Taschner, S; Göbel, F; **Strobl, H**. Differential involvement of PU.1 and Id2 downstream of TGF-beta1 during Langerhans-cell commitment. *Blood*. 2006; 107(4):1445-1453
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- Strobl, H**; Knapp, W. Myeloid cell-associated lysosomal proteins as flow cytometry markers for leukocyte lineage classification. *J Biol Regul Homeost Agents*. 2005; 18(3-4):335-339

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- Scholz, W; Platzer, B; Schumich, A; Höcher, B; Fritsch, G; Knapp, W; **Strobl, H**. Initial human myeloid/dendritic cell progenitors identified by absence of myeloperoxidase protein expression. *Exp Hematol*. 2004; 32(3):270-276
- Hertel, L; Lacaille, VG; **Strobl, H**; Mellins, ED; Mocarski, ES. Susceptibility of immature and mature Langerhans cell-type dendritic cells to infection and immunomodulation by human cytomegalovirus. *J Virol*. 2003; 77(13):7563-7574
- Strobl, H**. Molecular mechanisms of dendritic cell sublineage development from human hematopoietic progenitor/stem cells. *Int Arch Allergy Immunol*. 2003; 131(2):73-79
- Pfeilstöcker, M; Karlic, H; Salamon, J; Mühlberger, H; Pavlova, B; **Strobl, H**; Pittermann, E; Heinz, R. Hematopoietic recovery after IEV chemotherapy for malignant lymphoma followed by different cytokines can be monitored by analysis of Galpha 16 and CD34. *Am J Hematol*. 2000; 64(3):156-160
- Riedl, E; Stöckl, J; Majdic, O; Scheinecker, C; Knapp, W; **Strobl, H**. Ligation of E-cadherin on in vitro-generated immature Langerhans-type dendritic cells inhibits their maturation. *Blood*. 2000; 96(13):4276-4284
- Riedl, E; Stöckl, J; Majdic, O; Scheinecker, C; Rappersberger, K; Knapp, W; **Strobl, H**. Functional involvement of E-cadherin in TGF-beta 1-induced cell cluster formation of in vitro developing human Langerhans-type dendritic cells. *J Immunol*. 2000; 165(3):1381-1386
- Pfeilstöcker, M; Karlic, H; Paukovits, J; Anzenberger, G; Louda, N; Salamon, J; Mühlberger, H; **Strobl, H**; Pittermann, E; Heinz, R. In vivo and in vitro effects of cytokines and the hemoregulatory peptide dimer (pEEDCK)<sub>2</sub> (pyroGlu-Glu-Asp-Cys-Lys)<sub>2</sub> on G alpha16-positive hematopoiesis. *Leukemia*. 1999; 13(4):590-594
- Strobl, H**; Knapp, W. TGF-beta1 regulation of dendritic cells. *Microbes Infect*. 1999; 1(15):1283-1290
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- Strobl, H**; Riedl, E; Bello-Fernandez, C; Knapp, W. Epidermal Langerhans cell development and differentiation. *Immunobiology*. 1998; 198(5):588-605
- Strobl, H**; Scheinecker, C; Riedl, E; Csmarits, B; Bello-Fernandez, C; Pickl, WF; Majdic, O; Knapp, W. Identification of CD68+lin- peripheral blood cells with dendritic precursor characteristics. *J Immunol*. 1998; 161(2):740-748
- Bello-Fernandez, C; Matyash, M; **Strobl, H**; Pickl, WF; Majdic, O; Lyman, SD; Knapp, W. Efficient retrovirus-mediated gene transfer of dendritic cells generated from CD34+ cord blood cells under serum-free conditions. *Hum Gene Ther*. 1997; 8(14):1651-1658
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- Riedl, E; **Strobl, H**; Majdic, O; Knapp, W. TGF-beta 1 promotes in vitro generation of dendritic cells by protecting progenitor cells from apoptosis. *J Immunol*. 1997; 158(4):1591-1597

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- Strobl, H**; Riedl, E; Scheinecker, C; Bello-Fernandez, C; Pickl, WF; Majdic, O; Knapp, W. TGF-beta 1 dependent generation of LAG+ dendritic cells from CD34+ progenitors in serum-free medium. *Adv Exp Med Biol*. 1997; 417:161-165
- Zöchbauer, S; Schwarzinger, I; **Strobl, H**; Lechner, K; Pirker, R. Relationship between MDR1 gene and surface markers in acute myeloid leukemia. *Anticancer Res*. 1997; 17(1B):749-752
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- Leitner, A; **Strobl, H**; Fischmeister, G; Kurz, M; Romanakis, K; Haas, OA; Printz, D; Buchinger, P; Bauer, S; Gadner, H; Fritsch, G. Lack of DNA synthesis among CD34+ cells in cord blood and in cytokine-mobilized blood. *Br J Haematol*. 1996; 92(2):255-262
- Strobl, H**; Riedl, E; Scheinecker, C; Bello-Fernandez, C; Pickl, WF; Rappersberger, K; Majdic, O; Knapp, W. TGF-beta 1 promotes in vitro development of dendritic cells from CD34+ hemopoietic progenitors. *J Immunol*. 1996; 157(4):1499-1507
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- Kapiotis, S; Quehenberger, P; Sengoelge, G; Pärtan, C; Eher, R; **Strobl, H**; Bevec, D; Zapolska, D; Schwarzinger, I; Speiser, W. Modulation of pyrogen-induced upregulation of endothelial cell adhesion molecules (CAMs) by interleukin-4: transcriptional mechanisms and CAM-shedding. *Circ Shock*. 1994; 43(1):18-25
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- Szekeres, T; Fritzer, M; **Strobl, H**; Gharehbaghi, K; Findenig, G; Elford, HL; Lhotka, C; Schoen, HJ; Jayaram, HN. Synergistic growth inhibitory and differentiating effects of trimidox and tiazofurin in human promyelocytic leukemia HL-60 cells. *Blood*. 1994; 84(12):4316-4321
- Thalhammer, F; Gisslinger, H; Chott, A; Haas, O; Etele-Hainz, A; Helbich, T; Kusec, R; Linkesch, W; Simonitsch, I; **Strobl, H**. Granulocytic sarcoma of the prostate as the first manifestation of a late relapse of acute myelogenous leukemia. *Ann Hematol*. 1994; 68(2):97-99 (- Case Report)
- Agis, H; Willheim, M; Sperr, WR; Wilfing, A; Krömer, E; Kabrna, E; Spanblöchl, E; **Strobl, H**; Geissler, K; Spittler, A; Boltz-Nitulescu, G; Majdic, O; Lechner, K; Valent, P. Monocytes do not make mast cells when cultured in the presence of SCF. Characterization of the circulating mast cell progenitor as a c-kit+, CD34+, Ly-, CD14-, CD17-, colony-forming cell. *J Immunol*. 1993; 151(8):4221-4227
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- Ohler, L; Scholten, C; Reiter, E; Tiefengraber, E; Jäger, U; **Strobl, H**; Lechner, K; Höcker, P; Geissler, K. Mobilization of circulating hematopoietic stem cells by granulocyte colony stimulating factor after chemotherapy in multiple myeloma. *Wien Klin Wochenschr*. 1993; 105(20):580-584
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## 9 – Patents / Patente

Strobl, H. 2002. US6498034 B1: Method of producing dendritic cells, assignee: Novartis AG

## 10 – Selected oral presentations (invited only) / ausgewählte Vorträge (nur Einladungen)

ENII-EFIS conference, Capo Caccia, Sardinia, Italy, May 20-25, 2006

European Macrophage and Dendritic Cell Society (EMDS) and DC-THERA European Network of Excellence , Brescia 17<sup>th</sup> to 20<sup>th</sup> September 2008

2nd European Congress of Immunology (ECI 2009), 13.-16. September 2009, Berlin - ICC

11<sup>th</sup> International Workshop on Langerhans Cells, Sept 3<sup>rd</sup> to 6<sup>th</sup>, 2009, Funchal, Madeira, Portugal

6<sup>th</sup> International Aachen Symposium on Cytokine Signalling, organized by SFB 542 and RWTH Aachen April 23-24, 2010

12th International Workshop on Langerhans cells, Innsbruck, Austria November 3. - 6. 2011

Keystone symposium: TGF-beta in immune responses-from bench to bedside, January 7-12, 2011

13. intl Workshop on Langerhans cells, Amsterdam. 10.-13.10.2013.

Keystone symposium: Understanding dendritic cell biology to advance disease therapy, March 3-8, 2013

Else-Körner-Lecture, Würzburg, July 18, 2016

Keystone symposium: TGF-beta in immunity, inflammation and cancer, January 9-13, 2017