

Signature Papers and Presentations

(Note that publications are ordered according to topic and given in chronological order and only milestone papers are listed.)

I. Antigen-presenting Cell

1. Gieseler RKH, Röber R-A, Kuhn R, Weber K, Osborn M, Peters JH. Dendritic cells derived from rat bone marrow precursors under chemically defined conditions *in vitro* belong to the myeloid lineage. *Eur J Cell Biol* 1991; **54:171–81**.
2. Peters JH, Xu H, Ruppert J, Ostermeier D, Friedrichs D, Gieseler RKH. Signals required for differentiating dendritic cells from human monocytes *in vitro*. *Adv Exp Med Biol* 1993; **329:275–80**.
3. Peters JH, Gieseler R, Thiele B, Steinbach F. Dendritic cells: from ontogenetic orphans to myelomonocytic descendants. *Immunol Today* 1996; **17:273–8**.
4. Gieseler R, Heise D, Soruri A, Schwartz P, Peters JH. In-vitro differentiation of mature dendritic cells from human blood monocytes. *Develop Immunol* 1998; **6:25–39**.

II. Infectious Diseases I: HIV/AIDS and Targeting

1. Kennedy P, Murray C, Scolaro MJ. Non-myelosuppressive chemotherapy for HIV associated aggressive lymphoma. *Fifth Int Conf AIDS* 1989, Montreal.
2. Scolaro MJ, Kahn B, Solish A. Pentamidine aerosol reported to prevent *Pneumocystis carinii* pneumonia. *Fifth Int Conf AIDS*, Montreal 1989.
3. Lenzner S, Gieseler RKH, Scolaro MJ, Peters JH, Martin WJ. A simplified method for rapid HIV propagation in PBMC cultures. San Francisco. *Sixth Int Conf AIDS*, San Francisco 1990; **6:318** (# 1016).
4. Denning DW, Follansbee SE, Scolaro MJ, Norris S, Edelstein H, Stevens DA. Pulmonary Aspergillosis in the acquired immunodeficiency syndrome. *N Engl J Med* 1991; **324:654-662**.
5. Scolaro MJ, Durham R, Pieczenik G. Potential molecular competitor for HIV. *Lancet* 1991; **337: 731-732**.
6. Sullivan SM, Gieseler RKH, Lenzner S, Ruppert J, Gabryziak TG, Peters JH, Cox G, Richer L, Martin WJ, Scolaro MJ. Inhibition of human immunodeficiency virus-1 proliferation by liposome encapsulated sense DNA to the 5' *tat* splice acceptor site. *Antisense Res Dev* 1992;**2:187–97**.

7. Presant CA, Scolaro MJ, Kennedy P, Blayney DW, Flanagan B, Presant J. Liposomal Daunorubicin treatment of HIV-associated Kaposi's sarcoma. *Lancet* 1993; **341**:1242 - 1243.
8. Scolaro MJ, Al-Farouk B, Speights T, Muurahainen N, Bell C. Effects of wasting therapy with recombinant human growth hormone (rhGH) on cardiac ejection fraction in HIV-infected (HIV+) men. *12th World AIDS Conf*, June 28-July 3, 1998: 241-243.
9. Scolaro MJ, Gordon PM. Electron beam therapy for acquired immunodeficiency syndrome-related *Molluscum contagiosum* lesions: preliminary experience. *Radiology* 1999; **210**:479-482.
10. Canbay A, Gieseler R, Kullmer M, Radecke K, Ross B, Noppeney R, Gerken G, Treichel U. Acute-on-chronic liver failure in HIV infection: two cases. 8th German AIDS Conference. Berlin. *Eur J Med Res* 2001; **6** (Suppl I): 90-1 (# 32.7).
11. Canbay A, Gieseler R, Radecke K, Kullmer M, Ross B, Valentin-Gamazo C, Treichel U, Gerken G. Case report: up regulated Cyclosporine-A catabolism in a HIV-1+/HCV+ hemophiliac after liver transplantation and Efavirenz treatment. 8th German AIDS Conference. Berlin. *Eur J Med Res* 2001; **6** (Suppl I): 70-1 (# 22.1).
12. Neumann T, Canbay A, Bartel T, Gieseler R, Ross B, Erbel R, Gerken G. Periventricular echolow ECG signal in HIV-positive patients requires differential diagnosis of epicardial lipodystrophy vs. pericardial effusion. 8th German AIDS Conf, Berlin. *Eur J Med Res* 2001; **6** (Suppl I): 92 (# 32.12).
13. Scolaro MJ, Gunhill LB, Pope LE, Khalil MH, Katz DH, Berg JE. The antiviral drug Docosanol as a treatment for Kaposi's sarcoma lesions in HIV Type 1-infected patients: a pilot clinical study. *AIDS Res Human Retroviruses* 2001; **17**:35-43.
14. Gieseler RK, Marquitan G, Scolaro MJ, Cohen MD. Lessons from history: dysfunctional APCs, dangers of STI and an important goal, as yet unmet. *Trends Immunol* 2003; **24**:11.
15. Gieseler RK, Marquitan G, Hahn MJ, Perdon LA, Driessen WH, Sullivan SM, Scolaro MJ. Frontlines: DC-SIGN-specific liposomal targeting and selective intracellular compound delivery to human myeloid dendritic cells: implications for HIV disease. *Scand J Immunol* 2004; **59**:415-24.
16. Marquitan G, Gieseler RK, Driessen WHP, Perdon LA, Hahn MJ, Wader T, Sullivan SM, Scolaro MJ. Intracellular compound delivery to human Monocyte-derived dendritic cells by immunoliposomal targeting of the C-type lectin DC-SIGN. *MACS & More* 2004; **9**:16-8.
17. Gieseler RK, Marquitan G, Schwarz G, Streicher H, Fritze A, Wader T, Hahn M, Schubert R, Scolaro MJ. Addressing the human HIV-1 reservoir: I. Successful C-type

lectin-specific liposomal targeting of immature and mature myeloid dendritic cells, macrophages, and blood monocytes. DeutschÖsterreichischer AIDS-Kongress, 27.–30. 06.07 (DÖAK 2007): *in press*.

18. Scolaro MJ, Schwarz A, Wader T, Fritze A, Schubert R, Gieseler RK. Addressing the human HIV-1 Reservoir: II. Inactivation of M- and T-tropic HIV-1 strains in myeloid dendritic cells by targeted delivery of the HIV-agglutinating lectin Con A. Deutsch-Österreichischer AIDS-Kongress, 27.– 30. 06.07 (DÖAK 2007): *in press*.

III. Infectious Diseases II: HCV/Hepatitis C

1. Canbay A, Gieseler RK, Gores GJ, Gerken G. The relationship between apoptosis and nonalcoholic fatty liver disease: an evolutionary cornerstone turned pathogenic. *Z Gastroenterol* 2005; **43**:211–7.

2. Canbay A, Chen SY, Gieseler RK, Malago M, Karliova M, Gerken G, Broelsch CE, Treichel U. Overweight patients are more susceptible for acute liver failure. *Hepatogastroenterology* 2005; **52**:1516–20.

3. Canbay A, Kip SN, Kahraman A, Gieseler RK, Nayci A, Gerken G. Apoptosis and fibrosis in Non-alcoholic fatty liver disease. *Turk J Gastroenterol* 2005; **16**:1–6.

4. Kahraman A, Miller M, Gieseler RK, Gerken G, Scolaro MJ, Canbay A. Nonalcoholic fatty liver disease in HIV-positive patients predisposes for Acute-on-chronic liver failure: two cases. *Eur J Gastroenterol Hepatol* 2006; **18**:101–5.

5. Canbay A, Schlaak JF, Gerken G, Gieseler RK. Chapter VIII. Dysregulated Apoptosis in Liver Diseases. In: Shultz LB (ed.): Cell Apoptosis Regulation and Environmental Factors. Nova Science Publishers. Hauppauge, New York 2007: pp. 157–176.

IV. Autoimmunity: Graves' Disease / M. Basedow

1. Mann K, Gieseler R, Hörmann R. Pathogenesis of Graves' disease. *Z ärztl Fortbild Quallsich* 1999; **93** (Suppl I):29-34.

2. Quadbeck B, Eckstein A, Stucke M, Hoermann R, Tews S, Mann K, Gieseler R. Pseudo-lymphoid organization of the thyroid in Graves' disease: sub-localization of dendritic cell maturity stages and T helper cells in different compartments, including connective tissue. 12th International Thyroid Congress. Kyoto 2000. *Endocrine J* **47** (Suppl.):200 (P-377).

3. Gieseler R, Eckstein A, Quadbeck B, Tews S, Esser J, Steuhl K-P, Mann K. Cellular immunity of orbital fat. (I) Principal populations in health include granulocytes as well as

macrophages, ab- and gd-T cells which may participate in mucosal tolerance induction. Progress

in Thyroid-Associated Ophthalmopathy. 12th Int. Thyroid Congress. Kyoto 2000:78. 4. Eckstein AK, Quadbeck B, Tews S, Esser J, Steuhl K-P, Gieseler R. Cellular immunity of orbital fat. (II) Active thyroid-associated orbitopathy (TAO) is associated with the occurrence of proinflammatory macrophages and elevated numbers of gd-T cells. Progress in Thyroid-Associated Ophthalmopathy. 12th Int. Thyroid Congress. Kyoto 2000:79.

5. Eckstein AK, Quadbeck B, Finkenrath A, Andreas A, Esser J, Steuhl K-P, Gieseler R. Dry-eye syndrome in TAO patients - possible association to TSH receptor expression in lacrimal gland. Progress in Thyroid-Associated Ophthalmopathy. 12th International Thyroid Congress. Kyoto 2000:90.

6. Quadbeck B, Eckstein AK, Stucke M, Tews S, Walz MK, Hörmann R, Heise D, Mann K, Gieseler R. Dissecting the autoimmune response in Graves' disease. (I) Thyroid follicles, connective tissue and interfollicular clusters sequentially participate in the induction of autoimmunity. *Immunobiology* 2000; **203:223-4**.

7. Stucke M, Quadbeck B, Eckstein AK, Tews S, Hörmann R, Mann K, Gieseler R. Dissecting the autoimmune response in Graves' disease. (II) First evidence for systemic spreading of autoimmunity by thyroid-derived RFD1+ blood dendritic cells, and for the recruitment of inflammatory TNF-a+ tissue macrophages. *Immunobiology* 2000; **203: 227-8**.

8. Eckstein AK, Quadbeck B, Tews S, Mann K, Esser J, Gieseler R. Dissecting the autoimmune response in Graves' disease. (IIIa) Functionally downregulated orbital fat-resident macrophages (Mf), ab- and gd-T cells in health. Possible involvement in oculomucosal tolerance induction. *Immunobiology* 2000; **203:210**.

9. Eckstein AK, Quadbeck B, Tews S, Esser J, Mann K, Gieseler R. Dissecting the autoimmune response in Graves' disease. (IIIb) Influx of periocular adipose tissue in active thyroid-associated ophthalmopathy with TNF-a+ macrophages (Mf) and CD4+ gd-T cells, and possible upregulation of regional dendritic cell turnover by TNF-a. *Immunobiology* 2000; **203:209-10**.

10. Stucke B, Quadbeck B, Eckstein AK, Tews S, Mann K, Esser J, Gieseler R. MHC class II focusing, significant increase in CD40+ cells, and faint expression of Langerin by peripheral blood leukocytes are distinctive features of thyroid-associated ophthalmopathy. 27th Annual Meeting of the European Thyroid Association. Warsaw 2001. 11 Quadbeck B, Eckstein AK, Stucke M, Tews S, Walz MK, Hoermann R, Mann K, Gieseler R. Intrathyroidal dendritic cells (DC) acquire a lymphoid phenotype in Graves' disease (GD), but do not activate B effector cells. 45th Ann Meeting of the German Society of Endocrinology; Magdeburg. *Exp Clin Endocrinol Diabetes* 2001; **109 (Suppl 1):VII-XVI;SXX**.

12. Eckstein AK, Quadbeck B, Tews S, Esser J, Mohr C, Steuhl K-P, Mann K, Gieseler R. Periocular adipose tissue in active thyroid-associated ophthalmopathy (TAO) is invaded by inflammatory TNF- α macrophages (Mf) and CD4⁺ gd-T cells. 45th Ann Meeting of the German Society of Endocrinology; Magdeburg. *Exp Clin Endocrinol Diabetes* 2001; **109** (Suppl 1):VII–XVI;SXX.

13. Quadbeck B, Eckstein A, Tews S, Walz M, Hoermann R, Mann K, Gieseler R. Maturation of thyroidal dendritic cells in Graves' disease. *Scand J Immunol* 2002; **55**:612–20.

14. Eckstein A, Quadbeck B, Tews S, Mann K, Mohr C, Esser J, Steuhl K-P, Gieseler R. Inflammatorisch aktivierte Makrophagen (Mf) und eine erhöhte Anzahl gd-T-Zellen infiltrieren das periokuläre Bindegewebe bei der aktiven Endokrinen Orbitopathie (EO). In: Mann K, Weinheimer B, Janssen OE (eds.): *Schilddrüse 2001 – Schilddrüse und Autoimmunität*. De Gruyter; Berlin, New York 2002:45–53. (Discussion:53–5.)

15. Quadbeck B, Eckstein A, Walz K, Mann K, Gieseler R. Erhöhte Expression von dendritischen perifollikulären MHC-Klasse-II⁺ Zellen beim Morbus Basedow. In: Mann K, Weinheimer B, Janssen OE (eds.): *Schilddrüse 2001 – Schilddrüse und Autoimmunität*. De Gruyter; Berlin, New York 2002:36–42. (Discussion:42–4.)

16. Eckstein AK, Finkenrath A, Heiligenhaus A, Renzing-Köhler K, Esser J, Krüger C, Quadbeck B, Steuhl KP, Gieseler RK. Dry eye syndrome in thyroid-associated Ophthalmopathy: lacrimal expression of TSH receptor suggests involvement of TSHR-specific autoantibodies. *Acta Ophthalmol Scand* 2004; **82**:291–7.

17. Eckstein AK, Quadbeck B, Tews S, Mann K, Krüger C, Mohr CH, Steuhl K-P, Esser J, Gieseler RK. Thyroid-associated Ophthalmopathy: evidence for CD4⁺ gd T cells; *de-novo* differentiation of RFD7⁺ macrophages, but not of RFD1⁺ dendritic cells; and loss of gd and ab T cell receptor expression. *Br J Ophthalmol* 2004; **88**:804–9.

18. Quadbeck B, Stucke M, Eckstein AK, Heise D, Mann K, Gieseler RK. Dysregulation of TNF/ TNFR superfamily members: a systemic link between intra- and extra thyroidal manifestations in Graves' disease. *Scand J Immunol* 2006; **64**:523–30.

V. Cancer: Kaposi's sarcoma, Melanoma, Granular-Cell Myoblastoma

1. Presant CA, Scolaro MJ, Kennedy P, Blayney DW, Wiseman C. Liposomal Daunorubicin (LD) as tumor-targeted chemotherapy: initial clinical results in Kaposi's sarcoma (KS) and solid tumors (ST). 1992 *Proc Am Soc Clin Oncol* 1992.

2. Soruri A, Fayyazi A, Hollmann K, Gieseler R, Rüniger T, Peters JH. Monocyte-derived dendritic cells (MoDC) co-cultured with autologous melanoma cells induce a potent autologous T cell response. 4th Int Symposium on Dendritic Cells in Fundamental and Clinical Immunology; Venice 1996:349.

3. Peters JH, Soruri A, Fayyazi A, Gieseler R, Schlott T, Runger T, Neumann C. Dendritic cell-based *in-vitro* immunization against malignant melanoma. 4th Spring Meeting of the Deutsche Gesellschaft fur Immunologie. Frankfurt/Main 1998:153 (L9).
4. Soruri A, Fayyazi A, Gieseler R, Schlott T, Runger T, Neumann C, Peters JH. Specific autologous anti-melanoma T cell response *in-vitro* using Monocyte-derived dendritic cells. *Immunobiology* 1998; **198**:527–38.
5. Gieseler R, Hollmann K, Scolaro MJ, Peters JH. All-*trans*-retinoic acid up regulates CD1a on human monocyte-derived dendritic cells (MoDC): implications for autologous melanoma-specific tumor vaccination. *Immunobiology* 2000; **203**:378-9.
6. Canbay A, Gieseler RK, Hoffmann P, Holtmann G, Runzi M. Persistently altered visceral perception after resection of an esophageal granular-cell myoblastoma: a therapeutic concept revisited. *Z Gastroenterol* 2003; **41**:917-20.