

6. Literaturverzeichnis

- Alberts B, Bray D, Lewis J, Raff M, Roberts K, Watson JD. The Immune System. In: Molecular biology of the cell. 3rd ed. Garland Publishing, Inc. 1994:1196-1251.
- Altman JD, Moss PA, Goulder PJ, et al. Phenotypic analysis of antigen-specific T lymphocytes. *Science* 1996;274:94-6.
- Amoura Z, Chabre H, Koutouzov S, et al. Nucleosome-restricted antibodies are detected before anti-dsDNA and/or antihistone antibodies in serum of MRL-Mp lpr/lpr and +/+ mice, and are present in kidney eluates of lupus mice with proteinuria. *Arthritis Rheum* 1994;37:1684-8.
- Amoura Z, Koutouzov S, Piette JC. The role of nucleosomes in lupus. *Curr Opin Rheumatol* 2000;12:369-373.
- Angulo R, Fulcher DA. Measurement of Candida-Specific Blastogenesis: Comparison of Carboxyfluorescein Succinimidyl Ester Labelling of T Cells, Thymidine Incorporation, and CD69 Expression. *Cytometry* 1998;34:143-151.
- Aringer M, Graninger WB, Steiner G, Smolen JS. Safety and efficacy of tumor necrosis factor alpha blockade in systemic lupus erythematosus: an open-label study. *Arthritis Rheum* 2004;50:3161-9.
- Arpin C, Dechanet J, Van Kooten C, et al. Generation of memory B cells and plasma cells in vitro. *Science* 1995;268:720-22.
- Bell DA, Morrison B. The spontaneous apoptotic cell death of normal human lymphocytes in vitro: the release of, and immunoproliferative response to, nucleosomes in vitro. *Clin Immunol Immunopathol* 1991;60:13-26.
- Bencivelli W, Vitali C, Isenberg DA, et al. Disease activity in systemic lupus erythematosus: report of the Consensus Study Group of the European Workshop for Rheumatology Research. III. Development of a computerised clinical chart and its application to the comparison of different indices of disease activity. The European Consensus Study Group for Disease Activity in SLE. *Clin Exp Rheumatol* 1992;10:549-54.
- Bengtsson AA, Sturfelt G, Gullstrand B, Truedsson L. Induction of apoptosis in monocytes and lymphocytes by serum from patients with systemic lupus erythematosus - an additional mechanism to increased autoantigen load? *Clin Exp Immunol* 2004;135:535-43.
- Benucci M, Gobbi FL, Fossi F, Manfredi M, Del Rosso A. Drug-Induced Lupus After Treatment With Infliximab in Rheumatoid Arthritis. *J Clin Rheumatol*

- 2005;11:47-9.
- Bessant R, Hingorani A, Patel L, MacGregor A, Isenberg DA, Rahman A. Risk of coronary heart disease and stroke in a large British cohort of patients with systemic lupus erythematosus. *Rheumatology (Oxford)* 2004;43:924-9.
- Bombardier C, Gladman DD, Urowitz MB, Caron D, Chang CH. Derivation of the SLEDAI. A disease activity index for lupus patients. The Committee on Prognosis Studies in SLE. *Arthritis Rheum* 1992;35:630-40.
- Botto M, Dell'Agnola C, Bygrave AE, et al. Homozygous C1q deficiency causes glomerulonephritis associated with multiple apoptotic bodies. *Nat Genet* 1998;19:56-9.
- Brosterhus H, Brings S, Leyendeckers H, et al. Enrichment and detection of live antigen-specific CD4(+) and CD8(+) T cells based on cytokine secretion. *Eur J Immunol* 1999;29:4053-9.
- Bruns A, Bläss S, Hausdorf G, Burmester GR, Hiepe F. Nucleosomes are major T and B cell autoantigens in Systemic Lupus Erythematosus. *Arthritis Rheum* 2000;43:2307-2315.
- Burlingame RW, Rubin RL, Balderas RS, Theofilopoulos AN. Genesis and evolution of antichromatin autoantibodies in murine lupus implicates T-dependent immunization with self antigen. *J Clin Invest.* 1993;91:1687-96.
- Burlingame RW, Boey ML, Starkebaum G, Rubin RL. The central role of chromatin in autoimmune responses to histones and DNA in systemic lupus erythematosus. *J Clin Invest* 1994;94:184-92.
- Burmester GR, Pezzutto A. *Taschenatlas der Immunologie*. Georg Thieme Verlag 1998:1-37.
- Cappione AJ, Pugh-Bernard AE, Anolik JH, Sanz I. Lupus IgG VH4.34 antibodies bind to a 220-kDa glycoform of CD45/B220 on the surface of human B lymphocytes. *J Immunol* 2004;172:4298-307.
- Casciola-Rosen L, Andrade F, Ulanet D, Wong WB, Rosen A. Cleavage by granzyme B is strongly predictive of autoantigen status: implications for initiation of autoimmunity. *J Exp Med* 1999;90:815-26.
- Chabre H, Amoura Z, Piette JC, Godeau P, Bach JF, Koutouzov S. Presence of Nucleosome-restricted Antibodies in Patients with Systemic Lupus Erythematosus. *Arthritis Rheum* 1995;38:1485-91.
- Chain B, McCafferty I, Wallace G, Askenase PW. Improvement of the in vitro T cell

- proliferation assay by a modified method that separates the antigen recognition and IL-2-dependent steps. *J Immunol Methods* 1987;99:221-8.
- Charles PJ, Smeenk RJ, De Jong J, Feldmann M, Maini RN. Assessment of antibodies to double-stranded DNA induced in rheumatoid arthritis patients following treatment with infliximab, a monoclonal antibody to tumor necrosis factor alpha: findings in open-label and randomized placebo-controlled trials. *Arthritis Rheum.* 2000;43:2383-90.
- Choe J, Choi YS. IL-10 interrupts memory B cell expansion in the germinal center by inducing differentiation into plasma cells. *Eur J Immunol* 1998;28:508-15.
- Corcoran LM, Hasbold J, Dietrich W, et al. Differential requirement for OBF-1 during antibody-secreting cell differentiation. *J Exp Med* 2005;201:1385-96.
- Crow MK, Christian CL. Etiologic Hypotheses for Systemic Lupus Erythematosus. In Lahita RG: *Systemic Lupus Erythematosus*, Churchill Livingstone 1992, second edition:51-64.
- Damoiseaux J. Regulatory T cells: back to the future. *Neth J Med* 2006;64:4-9.
- Datta 1995, Mohan C, Desai-Mehta A. Mechanisms of the pathogenic autoimmune response in lupus: prospects for specific immunotherapy. *Immunol Res* 1995;14:132-47.
- Davidson A, Manheimer-Lory A, Aranow C, Peterson R, Hannigan N, Diamond B. Molecular characterization of a somatically mutated anti-DNA antibody bearing two systemic lupus erythematosus-related idiotypes. *J Clin Invest* 1990;85:1402-9.
- Davies ML, Taylor EJ, Gordon C, et al. Candidate T cell epitopes of the human La/SSB autoantigen. *Arthritis Rheum* 2002;46:209-14.
- Davies ML, Young SP, Welsh K, et al. Immune responses to native beta(2)-glycoprotein I in patients with systemic lupus erythematosus and the antiphospholipid syndrome. *Rheumatology (Oxford)* 2002;41:395-400.
- De Carli M, D'Elis MM, Romagnani S, Del Prete G. Human Th1 and Th2 cells: functional properties, regulation of development and role in autoimmunity. *Autoimmunity* 1994;18:301-8.
- Dean GS, Tyrrell-Price J, Crawley E, Isenberg DA. Cytokines and systemic lupus erythematosus. *Ann Rheum Dis* 2000;59:243-51.
- Desai-Mehta A, Mao C, Rajagopalan S, Robinson T, Datta SK. Structure and specificity of T cell receptors expressed by potentially pathogenic anti-DNA

- autoantibody-inducing T cells in human lupus. *J Clin Invest* 1995;95:531-41.
- Donauer J, Wochner M, Witte E, Peter HH, Schlesier M, Krawinkel U. Autoreactive human T cell lines recognizing ribosomal protein L7. *Int Immunol* 1999;11:125-32.
- Fessel WJ. Systemic Lupus Erythematosus in the community. Incidence, prevalence, outcome, and first symptoms; the high prevalence in black women. *Arch Intern Med* 1974;134:1027-35.
- Fillatreau S, Sweenie CH, McGeachy MJ, Gray D, Anderton SM. B cells regulate autoimmunity by provision of IL-10. *Nat Immunol* 2002;3:944-50.
- Firestein GS, Roeder WD, Laxer JA, et al. A new murine CD4+T cell subset with an unrestricted cytokine profile. *J Immunol* 1989;143:518-25.
- Fournel S, Muller S. Anti-nucleosome antibodies and T cell response in systemic lupus erythematosus. *Ann Med Interne* 2002;153:513-519.
- Gabay C, Cakir N, Moral F, et al. Circulating levels of tumor necrosis factor soluble receptors in systemic lupus erythematosus are significantly higher than in other rheumatic diseases and correlate with disease activity. *J Rheumatol* 1997;24:303-8.
- Gleichmann E, van Elven EH, van der Veen JP. A systemic lupus erythematosus (SLE)-like disease in mice induced by abnormal T-B cooperation: preferential formation of autoantibodies characteristic of SLE. *Eur J Immunol* 1982;12:152-59.
- Harley JB, James JA. Epstein-Barr virus infection may be an environmental risk factor for systemic lupus erythematosus in children and teenagers. *Arthritis Rheum* 1999;42:1782-3.
- Hasbold J, Lyons AB, Kehry MR, Hodgkin PD. Cell division number regulates IgG1 and IgE switching of B cells following stimulation by CD40 ligand and IL-4. *Eur J Immunol* 1998;28:1040-51.
- Hattori N, Kuwana M, Kaburaki J, Mimori T, Ikeda Y, Kawakami Y. T cells that are autoreactive to beta2-glycoprotein I in patients with antiphospholipid syndrome and healthy individuals. *Arthritis Rheum* 2000;43:65-75.
- Helsloot J, Sturgess A. T cell reactivity to Sjögren's syndrome related antigen La(SSB). *J Rheumatol* 1997;24:2340-7.
- Herrmann M, Voll RE, Zoller OM, Hagenhofer M, Ponner BB, Kalden JR. Impaired phagocytosis of apoptotic cell material by monocyte-derived macrophages

- from patients with systemic lupus erythematosus. *Arthritis Rheum* 1998;41:1241-50.
- Hiepe F, Burmester GR. Klinik und Diagnostik des systemischen Lupus erythematosus. *DMW* 1996;121:1095-1100.
- Hiepe F. Autoantibodies in Systemic Lupus Erythematosus. In Pollard KM: *Autoantibodies and Autoimmunity: Molecular Mechanisms in Health and Disease*. Willey-VCH Verlag GmbH & Co. KG 2006: 247-276.
- Hochberg MC. Updating the American College of Rheumatology revised criteria for the classification of systemic lupus erythematosus. *Arthritis Rheum* 1997;40:1725.
- Hodgkin PD, Lee JH, Lyons AB. B cell differentiation and isotype switching is related to division cycle number. *J Exp Med* 1996;184:277-81.
- Houck DW, Loken MR. Simultaneous analysis of cell surface antigens, bromodeoxyuridine incorporation and DNA content. *Cytometry* 1985;6:531-38.
- Huang YP, Perrin LH, Miescher PA, Zubler RH. Correlation of T and B cell activities in vitro and serum IL-2 levels in systemic lupus erythematosus. *J Immunol* 1988;141:827-33.
- Irsch J, Hunzelmann N, Tesch H, et al. Isolation and characterization of allergen-binding cells from normal and allergic donors. *Immunotech* 1995;1:115-25.
- Jacobi AM, Diamond B. Balancing diversity and tolerance: lessons from patients with systemic lupus erythematosus. *J Exp Med* 2005;202:341-4.
- James JA, Mamula MJ, Harley JB. Sequential autoantigenic determinants of the small nuclear ribonucleoprotein Sm D shared by human lupus autoantibodies and MRL lpr/lpr antibodies. *Clin Exp Immunol* 1994;98:419-26.
- James JA, Kaufman KM, Farris AD, Taylor-Albert E, Lehman TJ, Harley JB. An increased prevalence of Epstein-Barr virus infection in young patients suggests a possible etiology for systemic lupus erythematosus. *J Clin Invest* 1997;100:3019-26.
- Janeway CA, Travers P. *Immunologie*. Spektrum Akademischer Verlag GmbH, 1995.
- Jin O, Sun LY, Zhou KX, et al. Lymphocyte apoptosis and macrophage function: correlation with disease activity in systemic lupus erythematosus. *Clin Rheumatol* 2005;24:107-10.
- Kaliyaperumal A, Mohan C, Wu W, Datta SK. Nucleosomal peptide epitopes for nephritis-inducing T helper cells of murine lupus. *J Exp Med* 1996;183:2459-

69.
Kamradt T, Mitchison NA. Tolerance and Autoimmunity. *N Eng J Med* 2001;344:655-60.
60.
Kopper L, Sebestyen A. Syndecans and the lymphoid system. *Leuk Lymphoma* 2000;38:271-81.
- Krause A, Brade V, Schoerner C, Solbach W, Kalden JR, Burmester GR. T cell proliferation induced by *Borrelia Burgdorferi* in patients with lyme borreliosis. Autologous serum required for optimum stimulation. *Arthritis Rheum* 1991;34:393-402.
- Lacki JK, Leszczynski P, Kelemen J, Muller W, Mackiewicz SH. Cytokine concentration in serum of lupus erythematosus patients: the effect on acute phase response. *J Med* 1997;28:99-107.
- Leyendeckers H, Odendahl M, Lohndorf A, et al. Correlation analysis between frequencies of circulating antigen-specific IgG-bearing memory B-cells and serum titers of antigen-specific IgG. *Eur J Immunol* 1999;29:1406-17.
- Li ZG, Mu R, Dai ZP, Gao XM. T cell vaccination in systemic lupus erythematosus with autologous activated T cells. *Lupus* 2005;14:884-9.
- Linker-Israeli M, Bakke AC, Kitridou RC, Gendler S, Gillis S, Horwitz DA. Defective production of interleukin 1 and interleukin 2 in patients with systemic lupus erythematosus (SLE). *J Immunol* 1983;130:2651-5.
- Linker-Israeli M, Bakke AC, Quismorio FP Jr, Horwitz DA. Correction of interleukin-2 production in patients with systemic lupus erythematosus by removal of spontaneously activated suppressor cells. *J Clin Invest* 1985;75:762-8.
- Linker-Israeli M, Quismorio FP Jr, Horwitz DA. Further characterization of interleukin-2 production by lymphocytes of patients with systemic lupus erythematosus. *J Rheumatol* 1988;15:1216-22.
- Liu TF, Jones BM. Impaired production of IL-12 in systemic lupus erythematosus. I. Excessive production of IL-10 suppresses production of IL-12 by monocytes. *Cytokine* 1998;10:140-7.
- Liu TF, Jones BM. Impaired production of IL-12 in system lupus erythematosus. II: IL-12 production in vitro is correlated negatively with serum IL-10, positively with serum IFN-gamma and negatively with disease activity in SLE. *Cytokine* 1998;10:148-53.
- Lu L, Kaliyaperumal A, Boumpas DT, Datta SK. Major peptide autoepitopes for

- nucleosome-specific T cells of human lupus. *J Clin Invest* 1999;104:345-55.
- Lohning M, Richter A, Radbruch A. Cytokine memory of T helper lymphocytes. *Adv Immunol* 2002;80:115-81.
- Losman JA, Fasi TM, Novick KE, Massa M, Monestier M. Nucleosome-specific antibody from an autoimmune MRL/Mp-lpr/lpr mouse. *Arthritis Rheum* 1993;36:552-60.
- Lyons AB, Parish CR. Determination of lymphocyte division by flow cytometry. *J Immunol Methods* 1994;171:131-7.
- Lyons AB. Analysing cell division in vivo and in vitro using flow cytometric measurement of CFSE dye dilution. *J Immunol Meth* 2000;243:147-154.
- Madaio MP, Hodder S, Schwartz RS, Stollar BD. Responsiveness of autoimmune and normal mice to nucleic acid antigens. *J Immunol* 1984;132:872-6.
- Maino VC, Suni MK, Ruitenber DM, et al. Rapid flow cytometric method for measuring lymphocyte subset activation. *Cytometry* 1995;20:127-133.
- Manfredi AA, Rovere P, Galati G, et al. Apoptotic cell clearance in systemic lupus erythematosus. I. Opsonization by antiphospholipid antibodies. *Arthritis Rheum* 1998;41:205-14.
- Manger B, Burmester GR. Systemische Autoimmunopathien und Vaskulitiden. In Gerok W: *Die Innere Medizin*, Schattauer 2000, 10. Aufl.
- Mannering SI, Morris JS, Jensen KP, et al. A sensitive method for detecting proliferation of rare autoantigen-specific human T cells. *J Immunol Methods* 2003;283:173-183.
- Mannering SI, Purcell AW, Honeyman MC, McCluskey J, Harrison LC. Human T-cells recognise N-terminally Fmoc-modified peptide. *Vaccine* 2003;21:3638-46.
- Mannering SI, Dromey JA, Morris JS, Thearle DJ, Jensen KP, Harrison LC. An efficient method for cloning human autoantigen-specific T cells. *J Immunol Methods* 2005;298:83-92.
- Manz R, Assenmacher M, Pfluger E, Miltenyi S, Radbruch A. Analysis and sorting of live cells according to secreted molecules, relocated to a cell-surface affinity matrix. *Proc Natl Acad Sci* 1995;92:1921-25.
- Manz R, Lohning M, Cassese G, Thiel A, Radbruch A. Survival of long-lived plasma cells is independent of antigen. *Int Immunol* 1998;10:1703-11.
- Massa M, De Benedetti F, Pignatti P, et al. Anti-double stranded DNA, anti-histone, and anti-nucleosome IgG reactivities in children with systemic lupus

- erythematosus. *Clin Exp Rheumatol* 1994;12:219-25.
- Mehta BA, Maino VC. Simultaneous detection of DNA synthesis and cytokine production in staphylococcal enterotoxin B activated CD4+ T lymphocytes by flow cytometry. *J Immunol Methods* 1997;208:49-59.
- Mihara M, Ohsugi Y, Saito K, et al. Immunologic abnormality in NZB/NZW F1 mice. Thymus-independent occurrence of B cell abnormality and requirement for T cells in the development of autoimmune disease, as evidenced by analysis of the athymic nude individuals. *J Immunol* 1988;141:85-90.
- Mills JA. Systemic Lupus Erythematosus. *N Engl J Med* 1994;330:1871-79.
- Mohan C, Adams S, Stanik V, Datta SK. Nucleosome: a major immunogen for pathogenic autoantibody-inducing T cells of lupus. *J Exp Med* 1993;177:1367-81.
- Mok CC, Wong RW. Pregnancy in systemic lupus erythematosus. *Postgrad Med J* 2001;77:157-65.
- Mosmann TR, Cherwinski H, Bond MW, Giedlin MA, Coffman RL. Two types of murine helper T cell clones. I. Definition according to profile of lymphokine activities and secreted proteins. *J Immunol* 1986;136:2348-57.
- Mosmann TR, Subash S. The expanding universe of T-cell subsets: Th1, Th2 and more. *Immunol Today* 1996;17:138-146.
- Murat JC, Gamet L, Cazenave Y, Trocheris V. Questions about the use of [3H]thymidine incorporation as a reliable method to estimate cell proliferation rate. *Biochem J*. 1990;270:563-4.
- Odendahl M, Jacobi A, Hansen A, et al. Disturbed peripheral B lymphocyte homeostasis in systemic lupus erythematosus. *J Immunol* 2000;165:5970-79.
- Ohlenschlaeger T, Garred P, Madsen HO, Jacobsen S. Mannose-binding lectin variant alleles and the risk of arterial thrombosis in systemic lupus erythematosus. *N Engl J Med* 2004;351:260-7.
- Ohtsuka K, Gray JD, Quismorio FP Jr, Lee W, Horwitz DA. Cytokine-mediated down-regulation of B cell activity in SLE: effects of interleukin-2 and transforming growth factor-beta. *Lupus* 1999;8:95-102.
- Oostendorp RA, Audet J, Eaves CJ. High-resolution tracking of cell division suggests similar cell cycle kinetics of hematopoietic stem cells stimulated in vitro and in vivo. *Blood* 2000;95:855-62.
- O'Shea JJ, Ma A, Lipsky P. Cytokines and Autoimmunity. *Nature Rev Immunol*

- 2002;2:37-45.
- Ott PA, Herzog BA, Quast S et al. Islet-cell antigen-reactive T cells show different expansion rates and Th1/Th2 differentiation in type 1 diabetic patients and healthy controls. *Clin Immunol* 2005;115:102-114.
- Petri M, Spence D, Bone LR, Hochberg MC. Coronary artery disease risk factors in the Johns Hopkins Lupus Cohort: prevalence, recognition by patients, and preventive practices. *Medicine (Baltimore)* 1992;71:291-302.
- Petri M. Hopkins. Lupus Cohort. *Rheum Dis Clin North Am* 2000;26:199-213.
- Picker LJ, Singh MK, Zdraveski, et al. Direct demonstration of cytokine synthesis heterogeneity among human memory/effector T cells by flow cytometry. *Blood* 1995;86:1408-19.
- Pitidhamabhorn D, Kantachuvesiri S, Totemchokchyakarn K, Kitiyanant Y, Ubol S. Partial construction of apoptotic pathway in PBMC obtained from active SLE patients and the significance of plasma TNF-alpha on this pathway. *Clin Rheumatol* 2006;4:1-10.
- Popma SH, Krasinskas AM, McLean AD, et al. Immune Monitoring in Xenotransplantation: The Multiparameter Flow Cytometric Mixed Lymphocyte Culture Assay. *Cytometry* 2000;42:277-283.
- Puppo F, Contini P, Ghio M, Indiveri F. Soluble HLA class I molecules/CD8 ligation trigger apoptosis of CD8+ cells by Fas/Fas-ligand interaction. *ScientificWorldJournal* 2002;2:421-423.
- Radbruch A. *Flow Cytometry and Cell Sorting*, 2. Auflage. Springer, 2000.
- Radbruch A. *Immunsystem und Immunität*. In: Zeidler, Zacher, Hiepe. *Interdisziplinäre klinische Rheumatologie*. Springer, 2001:870-887.
- Reeves HW, Lahita HG. Clinical presentation of systemic lupus erythematosus in the adult. In Lahita RG: *Systemic Lupus Erythematosus*, Churchill Livingstone 1992, second edition:369-396.
- Reeves HW, Satoh M, Wang J, Chou C, Ajmani AK. Antibodies to DNA, DNA-binding proteins, and histones. *Rheum Dis Clin North Am* 1994;20:1-20.
- Riemekasten G, Marell J, Trebeljahr G, et al. A Novel Epitope on the C-Terminus of Smd1 Is Recognized by the Majority of Sera from Patients with Systemic Lupus Erythematosus. *J Clin Invest* 1998;102:754-63.
- Riemekasten G, Weiss C, Schneider S, et al. T cell reactivity against the Smd1₈₃₋₁₁₉ C terminal peptide in patients with systemic lupus erythematosus. *Ann Rheum*

- Dis 2002;61:779-85.
- Riemekasten G, Langnickel D, Ebling FM et al. Identification and Characterization of SmD1⁸³⁻¹¹⁹-Reactive T Cells That Provide T Cell Help for Pathogenic Anti-Double-Stranded DNA Antibodies. *Arthritis Rheum* 2003;48:475-485.
- Rosen A, Casciola-Rosen L. Autoantigens as substrates for apoptotic proteases: implications for the pathogenesis of systemic autoimmune disease. *Cell Death Differ* 1999;6:6-12.
- Sabbatini A, Dolcher MP, Marchini B, Bombardieri S, Migliorini P. Mapping of epitopes on the SmD molecule: the use of multiple antigen peptides to measure autoantibodies in systemic lupus erythematosus. *J Rheumatol* 1993;20:1679-83.
- Sainis K, Datta SK. CD4+ T cells lines with selective patterns of autoreactivity as well as CD4-/CD8- T helper cell lines augment the production of idiotypes shared by pathogenic anti-DNA autoantibodies in the NZB x SWR model of lupus nephritis. *J Immunol* 1988;140:2215-24.
- Sakaguchi S. Regulatory T cells: Key controllers of immunologic self-tolerance. *Cell* 2000;101:455-458.
- Salaman MR, Mawer DP, Hogarth MB, Seifert MH, Isenberg DA. Counter-proliferative effects of nucleosomal antigens in cultures from lupus patients. *Lupus* 2001;10:332-9.
- Sanderson RD, Lalor P, Bernfield M. B lymphocytes express and lose syndecan at specific stages of differentiation. *Cell Regul* 1989;1:27-35.
- Scheiermann P. Sevofluran hemmt die DNA-Bindung des Transkriptionsfaktors Aktivator Protein-1 und induziert Apoptose in T-Lymphozyten. Dissertation 2004, www.freidok.uni-freiburg.de, Einleitung:9-10.
- Schwartz RH. Models of T cell anergy: Is there a common molecular mechanism? *J Exp Med* 1996;184:1-8.
- Sheehy ME, McDermott AB, Furlan SN, Klenerman P, Nixon DF. A novel technique for the fluorometric assessment of T lymphocyte antigen specific lysis. *J Immunol Meth* 2001;249:99-110.
- Shivakumar S, Tsokos GC, Datta SK. T cell receptor α/β expressing double negative (CD4-/CD8-) and CD4+ T helper cells in humans augment the production of pathogenic anti-DNA autoantibodies associated with lupus nephritis. *J Immunol* 1989;143:103-112.

- Shlomchik MJ, Mascelli M, Shan H, Radic MZ, Pisetsky D, Marshak-Rothstein A, Weigert M. Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic mutation. *J Exp Med* 1990;171:265-292.
- Spronk PE, Limburg PC, Kallenberg CG. Serological markers of disease activity in systemic lupus erythematosus. *Lupus* 1995;4:86-94.
- Steinbach F, Henke F, Krause B, Thiele B, Burmester GR, Hiepe F. Monocytes from systemic lupus erythematosus patients are severely altered in phenotype and lineage flexibility. *Ann Rheum Dis* 2000;59:283-88.
- Suen JL, Chuang YH, Tsai BY, Yau PM, Chiang BL. Treatment of murine lupus using nucleosomal T cell epitopes identified by bone marrow-derived dendritic cells. *Arthritis Rheum* 2004;50:3250-9.
- Suni MA, Picker LJ, Maino VC. Detection of antigen-specific T-cell cytokine expression in whole blood by flow cytometry. *J Immunol Methods* 1998;212:89-98.
- Thatayatikom A, White AJ. Rituximab: A promising therapy in systemic lupus erythematosus. *Autoimmun Rev* 2006;5:18-24.
- Thiel A, Scheffold A, Radbruch A. Antigen-specific cytometry – New tools arrived! *Clin Immunol* 2004;111:155-161. *Autoimmunity Rew* 2006;5:18-24.
- Tsokos GC, Kammer GM. Molecular aberrations in human systemic lupus erythematosus. *Mol Med Today* 2000;6:418-424.
- Tsokos GC. Lymphocyte Abnormalities in Human Lupus. *Clin Immunol and Immunopathol* 1992;63:7-9.
- Tsutsumi A, Takahashi R, Sumida T. Mannose binding lectin: genetics and autoimmune disease. *Autoimmun Rev* 2005;4:364-72.
- Turcanu V, Maleki SJ, Lack G. Characterization of lymphocyte responses to peanuts in normal children, peanut-allergic children, and allergic children who acquired tolerance to peanuts. *J Clin Invest* 2003;111:1065-72.
- Uramoto KM, Michet CJJ, Thumboo J, et al. Trends in the incidence and mortality of systemic lupus erythematosus, 1950-1992. *Arthritis Rheum* 1999;42:46-50.
- Van Bruggen MCJ, Kramers C, Berden JHM. Autoimmunity against nucleosomes and lupus nephritis. *Ann Med Interne* 1996;147:485-9.
- Veldman CM, Gebhard KL, Uter W, et al. T cell recognition of desmoglein 3 peptides in patients with pemphigus vulgaris and healthy individuals. *J Immunol* 2004;172:3883-92.

- Vitali C, Bencivelli W, Isenberg DA, et al. Disease activity in systemic lupus erythematosus: report of the Consensus Study Group of the European Workshop for Rheumatology Research. II. Identification of the variables indicative of disease activity and their use in the development of an activity score. The European Consensus Study Group for Disease Activity in SLE. *Clin Exp Rheumatol* 1992;10:541-7.
- Voll RE, Roth EA, Girkontaite I, et al. Histone-specific Th0 and Th1 clones derived from systemic lupus erythematosus patients induce double-stranded DNA antibody production. *Arthritis Rheum* 1997;40:2162-71.
- Von Mühlen CA, Tan EM. Autoantibodies in the Diagnosis of Systemic Rheumatic Diseases. *Semin Arthritis Rheum* 1995;24:323-358.
- Waldrop SL, Pitcher CJ, Peterson DM, et al. Determination of antigen specific memory/effector CD4+T-cell frequencies by flow cytometry: evidence for a novel, antigen-specific homeostatic mechanism in HIV-associated immunodeficiency. *J Clin Invest* 1997;99:1739-50.
- Wang H, Xu J, Ji X, et al. The abnormal apoptosis of T cell subsets and possible involvement of IL-10 in systemic lupus erythematosus. *Cell Immunol* 2005;235:117-21.
- Warren HS. Using carboxyfluorescein diacetate succinimidyl ester to monitor human NK cell division: Analysis of the effect of activating and inhibitory class I MHC receptors. *Immunol Cell Biol* 1999;77:544-51.
- Weston SA, Parish CR. New fluorescent dyes for lymphocyte migration studies. Analysis by flow cytometry and fluorescence microscopy. *J Immunol Meth* 1990;133:87-97.
- Wofsy D, Seaman WE. Successful treatment of autoimmunity in NZB/NZW F1 mice with monoclonal antibody to L3T4. *J Exp Med* 1985;161:378-91.
- Xu Q, Katakura Y, Yamashita M, et al. IL-10 augments antibody production in *in vitro* immunized lymphocytes by inducing a Th2-type response and B cell maturation. *Biosci Biotechnol Biochem* 2004;68:2279-84.
- Yasuma M, Takasaki Y, Matsumoto K, Kodama A, Hashimoto H, Hirose S. Clinical significance of IgG anti-Sm antibodies in patients with systemic lupus erythematosus. *J Rheumatol* 1990;17:469-75.
- Yurasow S, Wardemann H, Hammersen J, et al. Defective B cell tolerance checkpoints in systemic lupus erythematosus. *J Exp Med* 2005;201:703-711.