

5 Literatur

Adema GJ, Hartgers F, Verstraten R, de Vries E, Marland G, Menon S, Foster J, Xu Y, Nooyen P, McClanahan T, Bacon KB, Figdor CG: *A dendritic cell-derived C-C chemokine that preferentially attracts naive T cells*. Nature (1997) 387: 713-717.

Agger R, Crowley MT, Witmer-Pack MD: *The surface of dendritic cells in the mouse as studied with monoclonal antibodies*. Int. Rev. Immunol. (1990) 6: 89-101.

Ahman DL, Creagan ET, Hahn RG, Edmonson JH, Bisel HF, Shaid DJ: *Complete responses and long-term survivals after systemic chemotherapy for patients with advanced malignant melanoma*. Cancer (1989) 63: 224-227.

Albert ML, Pearce SF, Francisco LM, Sauter B, Roy P, Silverstein RL, Bhardwaj N: *Immature dendritic cells phagocytose apoptotic cells via $\alpha V\beta 5$ and CD36, and cross-present antigens to cytotoxic T lymphocytes*. J. Exp. Med. (1998a) 188: 1359-1368.

Albert ML, Sauter B, Bhardwaj N: *Dendritic cells acquire antigen from apoptotic cells and induce class I-restricted CTLs*. Nature (1998b) 392: 86-89.

Ariizumi K, Shen GL, Shikano S, Xu S, Ritter R 3rd, Kumamoto T, Edelbaum D, Morita A, Bergstresser PR, Takashima A: *Identification of a novel, dendritic cell-associated molecule, dectin-1, by subtractive cDNA cloning*. J. Biol. Chem. (2000) 275: 20157-20167.

Artuc M, Nürnberg W, Czarnetzki BM, Schadendorf D: *Differential promoter activity in benign and malignant human cells of skin origin*. Exp. Dermatol. (1995) 4: 317-321.

Austyn JM, Kupiec-Weglinski JW, Hankins DF, Morris PJ: *Migration patterns of dendritic cells in the mouse. Homing to T cell-dependent areas of spleen, and binding within marginal zone*. J. Exp. Med. (1988) 167: 646-651.

Banchereau J und Steinman RM: *Dendritic cells and the control of immunity*. Nature (1998) 392: 245-252.

Banchereau J, Briere F, Caux C, Davoust J, Lebecque S, Liu YJ, Pulendran B, Palucka K: *Immunobiology of dendritic cells*. Annu. Rev. Immunol. (2000) 18: 767-811.

Basu S, Binder RJ, Ramalingam T, Srivastava PK: *CD91 is a common receptor for heat shock proteins gp96, hsp90, hsp70, and calreticulin*. Immunity (2001) 14: 303-313.

Bates EE, Dieu MC, Ravel O, Zurawski SM, Patel S, Bridon JM, Ait-Yahia S, Vega F Jr, Banchereau J, Lebecque S: *CD40 L activation of dendritic cell down-regulates DORA, a novel member of the immunoglobulin superfamily*. Mol Immunol. (1998) 35: 513-524.

Bates EE, Fournier N, Garcia E, Valladeau J, Durand I, Pin JJ, Zurawski SM, Patel S, Abrams JS, Lebecque S, Garrone P, Saeland S: *APCs express DCIR, a novel C-type lectin surface receptor containing an immunoreceptor tyrosine-based inhibitory motif*. J. Immunol. (1999) 163: 1973-1983.

Bernhard H, Disis ML, Heimfeld S, Hand S, Gralow JR, Cheever MA: *Generation of*

immunostimulatory dendritic cells from human CD34⁺ hematopoietic progenitor cells in the bone marrow and peripheral blood. Cancer Res (1995) 55: 1099-1104.

Bhardwaj N, Bender A, Gonzales N, Bui L K, Garrett MC, Steinman RM: *Influenza virus-infected dendritic cells stimulate strong proliferative and cytolytic response from human CD8⁺ T cells.* J Clin Invest (1994) 94: 797

Boel P, Wildmann C, Sensi ML, Brasseur R, Renauld JC, Coulie P, Boon T, Van der Bruggen P: *BAGE, a new gene encoding an antigen recognized on human melanomas by cytolytic T lymphocytes.* Immunity (1995) 2: 167-175.

Boon T, Coulie P, Marchand M, Weynants P, Wölfel T, Brichard V: *Genes coding for tumor rejection antigens: perspectives for specific immunotherapy.* In: „Important Advances in Oncology 1994“. DeVita VT., Hellman S, Rosenberg SA (eds.); JB Lippincott Co, Philadelphia, (1994a); pp 53-69.

Boon T, Cerottini JC, Van den Eynde B, van der Bruggen P, Van Pel A: *Tumor antigens recognized by T lymphocytes.* Annu Rev Immunol (1994b) 12: 337-365.

Boon T, Gajewski TF, Coulie PG: *From defined human tumor antigens to effective immunisation.* Immunol Today (1995) 16: 334-336.

Bouchard B, DelMarmol V, Jackson IJ, Cherif D, Dubertret L: *Molecular characterization of a human tyrosinase-related-protein-2 cDNA. Patterns of expression in melanocytic cells.* Eur J Bioch. (1994) 219: 129-134.

Brasseur F, Marchand M, Vanwijck R, Herin M, Lethe B, Chomez P, Boon T: *Human gene MAGE-1, which codes for a tumor-rejection antigen is expressed by some breast tumors.* Int. J. Cancer (1992) 52: 839-841.

Brichard V, van Pel A, Wölfel T, Wölfel C, DePlaen E, Lethe B, Coulie P, Boon T: *The tyrosinase gene codes for a antigen recognized by autologous cytolytic T lymphocytes on HLA-A2 melanomas.* J Exp Med (1993) 178: 489-495.

Cassel DJ, Schwartz RH: *A quantitative analysis of antigen-presenting cell function: activated B cells stimulate naive T cells but are inferior to dendritic cells in providing costimulation.* J Exp Med. (1994) 180: 1829-1840.

Castellino F, Boucher PE, Eichelberg K, Mayhew M, Rothman JE, Houghton A N, Germain RN: *Receptor-mediated uptake of antigen / heat shock protein complexes results in major histocompatibility complex class I antigen presentation via two distinct processing pathways.* J. Exp. Med. (2000) 191: 1957-1964

Caux C, Dezutter-Dambuyant C, Schmitt D, Banchereau J: *GM-CSF and TNF- α cooperate in the generation of dendritic Langerhans cells.* Nature (1992) 360: 258-261.

Cella M, Dohring C, Samaridis M, Dessing M, Brockhaus M, Lanzavecchia A, Colonna M: *A novel inhibitory receptor (ILT3) expressed on monocytes, macrophages, and dendritic cells involved in antigen processing.* J. Exp. Med. (1997) 185: 1743-51.

Celluzzi C, Mayordomo JI, Storkus WJ, Lotze MT, Falo LD: *Peptide-pulsed dendritic cells induce antigen-specific, CTL-mediated protective tumor immunity.* J Exp Med (1996) 183: 283-287.

Chambost H, Brasseur F, Coulie P, de Plaen E, Stoppa AM, Baume D, Olive D: *A tumour-associated antigen expression in human haematological malignancies*. Br. J. Haematol. (1993) 84: 524-526.

Chen L, Linsley PS, Hellström KE: *Costimulation of T cells for tumor immunity*. Immunol Today (1993) 14: 483-486.

Cifone MA, Fidler IJ: *Increasing metastatic potential is associated with increasing genetic instability of clones isolated from murine neoplasms*. Proc. Natl. Acad. Sci. USA (1981) 78: 6949-6952.

Cohen PJ, Cohen PA, Rosenberg SA, Katz SI, Mule JJ: *Murine epidermal Langerhans cells and splenic dendritic cells present tumor-associated antigens to primed T cells*. Eur J Immunol. (1994) 24: 315-319.

Colonna M, Samaridis J, Angman L: *Molecular characterization of two novel C-type lectin-like receptors, one of which is selectively expressed in human dendritic cells*. Eur. J. Immunol. (2000) 30: 697-704.

Colaco CA: *Towards a unified theory of immunity: dendritic cells, stress proteins and antigen capture*. Cell Mol. Biol. (1998) 44: 883-90

Cormier JN, Salgaller ML, Prevette T, Barracchini KC, Rivoltini L, Restifo NP, Rosenberg SA, Marincola FM: *Enhancement of cellular immunity in melanoma patient immunized with a peptide from MART-1/Melan-A*. Cancer J. Sci. Am. (1997) 3: 37-44.

Cumberbatch M, Kimber I: *Tumour necrosis factor- α is required for accumulation of dendritic cells in draining lymph nodes and for optimal contact sensitisation*. Immunology (1995) 84: 31-35.

De Bruijn ML, Nieland JD, Harding CV, Melief CJ: *Processing and presentation of intact hen egg-white lysozyme by dendritic cells*. Eur. J. Immunol. (1992) 22: 2347-2352.

Delgado E, Finkel V, Baggiolini M, Mackay CR, Steinman RM, Granelli-Piperno A: *Mature dendritic cells respond to SDF-1, but not to several beta chemokines*. Immunobiology (1998) 198: 490-500.

De Smet C, Lurquin C, van der Bruggen P, De Plaen E, Brasseur F, Boon T: *Sequence and expression pattern of the human MAGE 2 gene*. Immunogenetics (1994) 121-129.

Dieu MC, Vanbervliet B, Vicari A, Bridon JM, Oidham E, Ait-Yahia S, Briere F, Zlotnik A, Lebecque S, Caux C: *Selective recruitment for immature and mature dendritic cells by distinct chemokines expressed in different anatomic sites*. J. Exp. Med. (1998) 188: 373-386.

Dhodapkar MV, Steinmann R M, Krasovsky, J, Munz, C, Bhradwaj, N: *Antigen-specific inhibition of effector T-cell function in humans after injection of immature dendritic cells* J. Exp. Med. (2001) 193: 233-238.

Felgner PL, Gadek TR, Holm M, Roman R, Chan HW, Wenz M, Northrop JP, Ringold GM, Danielsen M: *Lipofection: a highly efficient, lipid-mediated DNA transfection procedure*. Proc. Natl. Sci. USA (1987) 84: 7413-7417.

Flechner E, Freudenthal P, Kaplan G, Steinman RM: *Antigen-specific T lymphocytes*

efficiently cluster with dendritic cells in the human primary mixed-leukocyte reaction. Cell. Immunol. (1988) 111: 183-195.

Freundethal PS, Steinman RM: *The distinct surface of human blood dendritic cells, as observed after an improved isolation method.* Proc. Natl. Acad. Sci. USA (1990) 87: 7698-7702.

Garbe C: *Chemotherapy and chemoimmunotherapy in disseminated malignant melanoma.* Melanoma Res. (1993) 3: 291-299.

Gaugler B, Van den Eynde B, Van der Bruggen P, Romero P, Gaforio JJ, De Plaen E, Lethe B, Brasseur F, Boon T: *Human gene MAGE-3 codes for an antigen recognized on a melanoma by autologous cytolytic T lymphocytes.* J. Exp. Med. (1994) 179: 921-930.

Ghaneker S, Zheng L, Logar A, Navratil, J, Borowski LA, Gupta, P, Rinaldo C: *Cytokine expression by human peripheral blood dendritic cells stimulated in vitro with HIV-1 and Herpes Simplex virus.* J. Immunol. (1996) 157: 4028-4036.

Godiska R, Chantry D, Raport CJ, Sozzani S, Allavena P, Leviten D, Mantovani A, Gray PW: *Human macrophage derived chemokine (MDC), a novel chemoattractant for monocytes, monocyte-derived dendritic cells and natural killer cells.* J. Exp. Med. (1997) 185: 1595-1604.

Grabbe S, Beissert S, Schwarz T, Granstein RD: *Dendritic cells as initiators of tumor immune responses- a possible strategy for tumor immunotherapy ?* Immunol. Today (1995) 16: 117-121.

Greaves DR, Wang W, Dairaghi DJ, Dieu MC, Saint-Vis B, Franz-Bacon K, Rossi D, Caux C, McClanahan T, Gordon S, Zlotnik A, Schall T: *CCR6, a CC chemokine receptor that interacts with macrophage inflammatory protein 3 α and is highly expressed in human dendritic cells.* J. Exp. Med. (1997) 186: 837-844.

Guery JC, Adorini L: *Dendritic cells are the most efficient in presenting endogenous naturally processed self-epitopes to class II-restricted T cells.* J. Immunol. (1995) 154: 536-544.

Gunn MD, Tangemann K, Tam C, Cyster JG, Rosen SD, Williams LT: *A chemokine expressed in lymphoid high endothelial venules promotes the adhesion and chemotaxis of naive T lymphocytes.* Proc. Natl. Acad. Sci. USA (1998) 95: 258-263.

Halaban R, Pomerantz SH, Marshall S, Lambert DT, Lerner AB: *Regulation of tyrosinase in human melanocytes grown in culture.* J Cell Biol (1983) 97: 480-488.

Harbeck MC, Rothenberg PL: *A technique for isolating cells for analysis by reverse transcription polymerase chain reaction.* Anal. Biochem. (1995) 230: 193-196.

Hartmann G, Weiner GJ, Krieg AM: *CpG DNA: a potent signal for growth, activation, and maturation of human dendritic cells.* Proc. Natl. Acad. Sci. USA (1999) 96: 9305-9310.

Hertz CJ, Kiertscher SM, Godowski PJ, Bouis DA, Norgard MV, Roth MD, Modlin RL: *Microbial lipopeptides stimulate dendritic cell maturation via Toll-like receptor 2.* J. Immunol. (2001) 166: 2444-2450.

Ho VC, Sober AJ: *Therapy of cutaneous melanoma: an update*. J. Am. Acad. Dermatol. (1990) 22: 159-176.

Hieshima K, Imai T, Baba M, Shoudai K, Ishizuka K, Nakagawa T, Tsuruta J, Takeya M, Sakaki Y, Takatsuki K, Miura R, Opdenakker G, Van Damme J, Yoshie O, Nomiyama H: *A novel human CC chemokine PARC that is most homologous to macrophage-inflammatory protein-1 α /LD78 α and chemotactic for T lymphocytes, but not for monocytes*. J. Immunol. (1997) 159: 1140-1149.

Houghton AN: *Cancer antigens: immune recognition of self and altered self*. J. Exp. Med. (1994) 180: 1-4.

Hsu F.J, Benike C, Fagnoni F, Liles TM, Czerwinski D, Taidi B, Engleman EG, Levy R: *Vaccination of patients with B-cell lymphoma using autologous antigen-pulsed dendritic cells*. Nature Med. (1996) 2: 52-58.

Huang AYC, Golumbek P, Ahmadzadeh M, Jaffee E, Pardoll D, Levitsky H: *Role of bone marrow-derived cells in presenting MHC class I-restricted tumor antigens*. Science (1994) 264: 961-965.

Huang FP, Platt N, Wykes M, Major JR, Powell TJ, Jenkins CD, MacPherson GG: *A discrete subpopulation of dendritic cells transport apoptotic intestinal epithelial cells to T cell areas of mesenteric lymph nodes*. J. Exp. Med. (2000) 191: 435-443.

Hung K, Hayashi R, Lafond-Walker A, Lowenstein C, Pardoll D, Levitsky H: *The central role of CD4⁺ T cells in the antitumor immune response*. J. Exp. Med. (1998) 188: 2357-2368.

Imai T, Baba M, Nishimura M, Kakizaki M, Takagi S, Yoshie: *The T cell-directed CC chemokine TARC is a highly specific biological ligand for CC chemokine receptor 4*. J. Biol. Chem. (1997) 272: 15036-15042.

Imai T, Chantry CJ, Wood CL, Nishimura M, Godiska R, Yoshie O, Gray PW: *Macrophage-derived chemokine is a functional ligand for the CC chemokine receptor 4*. J. Biol. Chem. (1998) 273: 1764-1768.

Jäger E, Bernhard H, Romero P, Ringhoffer M, Arand M, Karbach J, Ilsemann C, Hagedorn M, Knuth A: *Generation of cytotoxic T-cell responses with synthetic melanoma-associated peptides in vivo: Implications for tumor vaccines with melanoma-associated antigens*. Int. J. Cancer. (1996) 66: 162-169.

Jakob T, Walker PS, Krieg AM, Udey MC, Vogel JC: *Activation of cutaneous dendritic cells by CpG-containing oligonucleotides: a role for dendritic cells in the augmentation of Th1 responses by immunostimulatory DNA*. J. Immunol. (1998) 161: 3042-3049.

Jonuleit H, Schmitt E, Schuler G, Knop J, Enk AH: *Induction of interleukin 10 - producing nonproliferating CD4⁺ T-cells with regulatory properties by repetitive stimulation with allogenic immature human dendritic cells*. J. Exp. Med. (2000) 192: 1213-1222.

June CH, Bluestone JA, Nadler LM, Thompson CB: *The B7 and CD28 receptor family*. Immunol. Today (1994) 15: 321-331.

Karlsson L, Peleraux A, Lindstedt R, Liljedahl M, Peterson PA: *Reconstitution of an*

operational MHC class II compartment in nonantigen-presenting cells. Science (1994) 266: 1569-1573.

Katz SI, Tamaki K, Sach DH: *Epidermal Langerhans cells are derived from cells originating in bone marrow.* Nature (1979) 282: 324

Kawakami Y, Eliyahu S, Delgado CH, Robbins PF, Rivoltini L, Topalian SL, Miki T, Rosenberg SA: *Cloning of the gene coding for a shared human melanoma antigen recognized by autologous T cells infiltrating into tumor.* Proc. Natl. Acad. Sci. USA 91, 3515-3519 (1994).

Klareskog L, Malmnäs-Tjerlund UM, Forsum U, Peterson PA: *Epidermal Langerhans cells express Ia antigens.* Nature (1977) 268: 248-250.

Korzeniewski C, Callewaert DM: *An enzyme-release assay for natural cytotoxicity.* J Immunol. Methods (1983) 64: 313-320.

Kwon BS: *Pigmentation genes: the tyrosinase gene family and the pmel 17 gene family.* J. Invest. Dermatol. (1993) 100: 134-140.

Lanzavecchia A: *Identifying strategies for immune intervention.* Science (1993) 260: 937-944.

Larsen CP, Morris PJ, Austyn JM: *Migration of dendritic leukocytes from cardiac allografts into host spleens. A novel pathway for initiation of rejection.* J. Exp. Med. (1990a) 171: 307-314.

Larsen CP, Steinman RM, Witmer-Pack M, Hankins DF, Morris PJ, Austyn JM: *Migration and maturation of Langerhans cells in skin transplantats and explants.* J. Exp. Med. (1990b) 172: 1483-1493.

Liu HM, Newbrough SE, Bhatia SK, Dahle CE, Krieg AM, Weiner GJ: *Immunostimulatory CpG oligonucleotides enhance the immune response to vaccine strategies involving granulocyte-macrophage colony-stimulating factor.* Blood (1998) 92: 3730-3736.

Liu YJ: *Dendritic cell subsets and lineages, and their functions in innate and adaptive immunity.* Cell (2001) 106: 259-262.

Lotze MT, Straussell JL, Rosenberg SA: *In vitro growth of cytotoxic human lymphocytes. II Use of T cell growth factor (TCGF) to clone human T cells.* J. Immunol. (1980) 124: 2972-2978.

Marchand M, Weynants P, Rankin E, Arienti F, Belli F, Parmiani G, Cascinelli N, Bourland A, Vanwijck R, Humblet Y, Canon JL, Laurent C, Naeyaert JM, Plagne R, Deraemaeker R, Knuth A, Jäger E, Brasseur F, Herman J, Coulie PG, Boon: *Tumor regression responses in melanoma patients with a peptide encoded by gene MAGE-3.* Int. J. Cancer (1995) 63: 883-885.

Miyatake S, Otsuka T, Yokota F, Arai K: *Structure of the chromosomal gene for granulocyte-macrophage colony stimulating factor: Comparison of the mouse and human genes.* EMBO J. (1985) 4: 2561-2568.

Mohamadzadeh M, Berard F, Essert G, Chalouni C, Pulendran B, Davoust J, Bridges G, Palucka AK, Banchereau J: *Interleukin 15 skews monocyte differentiation into den-*

dritic cells with features of langerhans cells. J. Exp. Med. (2001) 194: 1013-1020.

Morrison LA, Lukacher AE, Braciale VL, Fan DP, Braciale TJ: *Differences in antigen presentation to MHC class I- and class II-restricted influenza virus-specific cytolytic T lymphocyte clones.* J Exp Med (1986a) 163: 903-921.

Morrison LA, Braciale VL, Braciale TJ: *Distinguishable pathways of viral antigen presentation to T lymphocytes.* Immunol Res (1986b) 5: 294-304.

Mukherji B, Chakraborty NG, Yamasaki S, Okino T, Yamase H, Sporn JR, Kurzman SK, Ergin MT, Ozols J, Meehan J: *Induction of antigen-specific cytolytic T cells in situ in human melanoma by immunization with synthetic peptide-pulsed autologous antigen presenting cells.* Proc. Natl. Acad. Sci. USA (1995) 92: 8078-802.

Muzio M, Bosisio D, Polentarutti N, D'amico G, Stoppacciaro A, Mancinelli R, van't Veer C, Penton-Rol G, Ruco LP, Allavena P, Mantovani A: *Differential expression and regulation of toll-like receptors (TLR) in human leukocytes: selective expression of TLR3 in dendritic cells.* J. Immunol. (2000) 164: 5998-6004.

Nestle FO, Zheng XG, Thompson CB, Turka LA, Nickoloff BJ: *Characterization of dermal dendritic cells obtained from normal human skin reveals phenotypic and functionally distinctive subsets.* J. Immunol. (1993) 151: 6535-6345.

Ngo VN, Tang HL, Cyster JG: *Epstein-Barr virus-induced molecule 1 ligand chemokine is expressed by dendritic cells in lymphoid tissues and strongly attracts naive T cells and activated B cells.* J. Exp. Med. (1998) 188: 181-191.

Nonacs R, Humborg C, Tam JP, Steinman RM: *Mechanisms of mouse spleen dendritic cell function in the generation of influenza-specific, cytolytic T lymphocytes.* J. Exp. Med. (1992) 176: 519-529.

Nowell PC: *Chromosomal and molecular clues to tumor progression.* Sem. Oncol. (1989) 16: 116-127.

Paglia P, Girolmoni G, Rabbiati F, Franucci F, Ricciardi-Casagnoli P: *Immortalized dendritic cell line fully competent in antigen presentation initiates primary T cell responses in vivo.* J. Exp. Med. (1993) 178: 1893-1901.

Paglia P, Chiodoni C, Rodolfo M, Colombo MP: *Murine dendritic cells loaded in vitro with soluble protein prime cytotoxic T lymphocytes against tumor antigen in vivo.* J. Exp. Med. (1996) 183: 317-322.

Pardoll DM: *Tumour antigens. A new look for 1990s.* Nature (1994) 369: 357.

Parker KC, Bednarek MA, Hull LK, Utz U, Cuningham B, Zweernik HJ, Biddison WE, Coligan JE: *Sequence motifs important for peptide binding to the human MHC class I molecules, HLA-A2.* J. Immunol. (1992) 149: 3580-3587.

Parkinson DR, Houghton AN, Hersey P, Borden EC: *Biologic therapy for melanoma.* In: „Cutaneous Melanoma“, Balch CM, Houghton AN, Milton GW, Sober AJ, Soong SJ (eds), Lippincott Co; pp. 522-541, 1992.

Parmiani G: *Tumor immunity as autoimmunity: tumor antigens include normal self proteins which stimulate anergic peripheral T cells.* Immunol. Today (1993) 14: 536-538

- Patard JJ, Brasseur F, Gil-Drez S, Radvanyi F, Marchand M, Francois P, Abi-Aad A, Van Cangh P, Abbou CC, Chopin D: *Expression of MAGE Genes in transitional-cell carcinomas of the urinary bladder*. *Int. J. Cancer* (1993) 54: 527-528.
- Pennica D, Nedwin GE, Hayflick JS, Seeburg PH, Derynck R, Palladino MA, Kohr WJ, Aggarwal BB, Goeddel DV: *Human tumour necrosis factor: precursor structure, expression and homology to lymphotoxin*. *Nature* (1984) 312: 724-729.
- Peters JH, Gieseler R, Thiele B, Steinbach F: *Dendritic cells: from ontogenetic orphans to myelomonocytic descendants*. *Immunol. Today* (1996) 17: 273-278.
- Power CA, Church DJ, Meyer A, Alöouani S, Prodfoot AE, Clark-Lewis I, Sozzani S, Mantovani, A, Wells TN: *Cloning and characterization of a specific receptor for the novel CC chemokine MIP-3 α from lung dendritic cells*. *J. Exp. Med.* (1997) 186: 825-835.
- Rammensee HG, Falk K, Röttschke O: *Peptides naturally presented by MHC class I molecules*. *Annu. Rev. Immunol.* (1993) 11: 213-244.
- Rammensee HG, Friede T, Stevanovic S: *MHC ligands and peptide motifs: first listing*. *Immunogenetics* (1995) 41: 178-228.
- Rescigno M, Granucci F, Citterio S, Foti M, Ricciardi-Castagnoli P: *Coordinated events during bacteria-induced DC maturation*. *Immunol. Today* (1999) 20: 200-203.
- Rimoldi D, Romero P, Carrel S: *The human melanoma antigen-encoding gene MAGE-1 is expressed by other tumour cells of neuroectodermal origin such as glioblastomas and neuroblastoma*. *Int. J. Cancer* (1993) 54: 527-528.
- Robbiani DF, Finch RA, Jäger D, Muller WA, Sartorelli AC, Randolph GJ: *The Leukotriene C4 transporter MRP1 regulates CCL19 (MIP-3 β , ELC)-dependent mobilization of dendritic cells to lymph nodes*. *Cell* (2000) 103: 757-768.
- Romani N, Gruner S, Brang D, Kampgen E, Lenz A, Trockenbacher B, Konwalinka G, Fritsch PO, Steinman RM, Schuler G: *Proliferating dendritic cell progenitors in human blood*. *J. Exp. Med.* (1994) 180: 83-93.
- Romani N, Reider D, Heuer M, Ebner S, Kampgen E, Eibl B, Niederwieser D, Schuler, G: *Generation of mature dendritic cells from human blood: an improved method with special regard to clinical applicability*. *J Immunol Methods* (1996) 196: 137-151.
- Rosenberg SA, Spiess P, Lafreniere R: *A new approach to the adoptive immunotherapy of cancer with tumor-infiltrating lymphocytes*. *Science* (1986) 233: 1318-1321.
- Rosenberg SA: *The gene therapy of cancer*. *Prev. Med.* (1994) 23: 624-626.
- Rouet P, Raguenez G, Salier JP: *Optimized assays for quantifying transient expressions of co-transfected beta-galactosidase and CAT reporter genes*. *Bio Techniques* (1992) 13: 700-701.
- Salter RD, Howell DN, Creswell P: *Genes regulating HLA class I antigen expression in T-B lymphoblast hybrids*. *Immunogenetics* (1985) 21: 235-246.
- Sallusto F, Lanzavecchia A: *Efficient presentation of soluble antigen by cultured human dendritic cells is maintained by granulocyte/macrophage colony stimulating factor plus interleukin 4 and downregulated by tumor necrosis factor α* . *J. Exp. Med.* (1994) 179: 1109-

1118.

Sallusto F, Cella M, Danieli C, Lanzavecchia A: *Dendritic cells use macropinocytosis and the mannose receptor to concentrate macromolecules in the major histocompatibility complex class II compartment: downregulation by cytokines and bacterial products*. J. Exp. Med. (1995) 182: 389-400.

Sallusto F, Schaerli P, Loetscher P, Schaniel C, Lenig D, Mackay CR, Qin S, Lanzavecchia A: *Rapid and coordinated switch in chemokine receptor expression during dendritic cell maturation*. Eur. J. Immunol. (1998) 28: 2760-69.

Sallusto F, Palermo B, Lenig D, Miettinen M, Matikainen S, Julkunen I, Forster R, Burgstahler R, Lipp M, Lanzavecchia A: *Distinct patterns and kinetics of chemokine production regulate dendritic cell function*. Eur. J. Immunol. (1999) 29: 1617-1625.

Sauter B, Albert ML, Francisco L, Larsson M, Somersan S, Bhradwaj N: *Consequences of cell death: exposure to necrotic tumor cells, but not primary tissue cells or apoptotic cells, induces the maturation of immunostimulatory dendritic cells*. J. Exp. Med. (2000) 191: 423-433.

Schadendorf D, Böhm M, Möller P, Grunewald T, Czarnetzki BM: *Interleukin-7 induces differential lymphokine-activated killer cell activity against human melanoma cells, keratinocytes, and endothelial cells*. J. Invest. Dermatol. (1994) 102: 838-842.

Schaniel C, Paedali E, Sallusto F, Speletas M, Ruedl C, Shimizu T, Seidl T, Anderson J, Melchers F, Rolink AG, Sideras P: *Activated murine B lymphocytes and dendritic cells produce a novel CC chemokine which acts selectively on activated T cells*. J. Exp. Med. (1998) 188: 451-463.

Schüler T, Qin Z, Ibe S, Noben-Trauth N, Blankenstein T: *T helper cell type 1-associated and cytotoxic T lymphocyte-mediated tumor immunity is impaired in interleukin 4-deficient mice*. J. Exp. Med. (1999) 189: 803-810.

Serhan CN: *Inflammation. Signalling the fat controller*. Nature (1996) 384: 23-24.

Shimizu J, Suada T, Yoshioka T, Kosugi A, Fujiwara H, Hamaoka T: *Induction of tumor-specific in vivo protective immunity by immunization with tumor antigen-pulsed antigen-presenting cells*. J Immunol (1989) 142: 1053-1059.

Seshardi R, Kutlaca RJ, Trainor K, Matthews C, Mortley AA: *Mutation rate of normal and malignant human lymphocytes*. Cancer Res. (1987) 47: 407-409.

Sherman LA, Chattopadhyay S: *The molecular basis of allorecognition*. Ann. Rev. Immunol. (1993) 11: 385-402.

Shibata K, Muraosa Y, Tomita Y, Tagami H and Shibahara S: *Identification of a cis acting element that enhances the pigment cell-specific expression of the human tyrosinase gene*. J. Biol. Chem. (1992) 267: 20584-20588.

Singh-Jasuja H, Toes RE, Spee P, Munz C, Hilf N, Schoenberger SP, Ricciardi-Castagnoli P, Neeffjes J, Rammensee HG, Arnold-Schild D, Schild H: *Cross-presentation of glycoprotein 96-associated antigens on major histocompatibility complex class I molecules requires receptor-mediated endocytosis*. J. Exp. Med. (2000) 191: 1965-1974.

- Smith B, Selby P, Southgate J, Pittman K, Bradley C, Blair GE: *Detection of melanoma cells in peripheral blood by means of reverse transcriptase and polymerase chain reaction*. Lancet (1991) 338: 1227-1229.
- Sozzani S, Allavena P, D'Amico G, Luini W, Bianchi G, Kataura M, Imai T, Yoshie O, Bonecchi R, Mantovani A: *Differential regulation of chemokine receptors during dendritic cell maturation: a model for their trafficking properties*. J. Immunol. (1998) 161: 1083-1086.
- Spanbroek R, Stark HJ, Janßen-Timmen U, Kraft S, Hildner M, Andl T, Bosch FX, Fusenig NE, Bieber T, Radmark O: *5-Lipoxygenase expression in Langerhans cells of normal human epidermis*. Proc. Natl. Acad. Sci. USA (1998) 95: 663-668.
- Spanbroek R, Hildner M, Steinhilber D, Fusenig N, Yoneda K, Radmark O, Samuelsson B, Habenicht AJR: *5-Lipoxygenase expression in dendritic cells generated from CD34⁺ hematopoietic progenitors and in lymphoid organs*. Blood (2000) 96: 3857-3865.
- Stacey KJ, Sester DP, Sweet MJ, Humme DA: *Macrophage activation by immunostimulatory DNA*. Curr. Top. Microbiol. Immunol. (2000) 247: 41-58.
- Steinman, RM: *The dendritic cells system and its role in immunogenicity*. Annu Rev Immunol (1991) 9: 271-296.
- Steinman RM, Turley S, Mellman I, Inaba K: *The induction of tolerance by dendritic cells that have captured apoptotic cells*. J. Exp. Med. (2000) 191: 411-416.
- Stingl G, Bergstresser PR: *Dendritic cells: a major story unfolds*. Immunol. Today (1995) 16: 330-333.
- Symington FW, Brady W, Linsely PS: *Expression and function of B7 on human epidermal Langerhans cells*. J. Immunol. (1993) 150: 1286-1295.
- Szabolcs P, Moore MAS, Young JW: *Expansion of immunostimulatory dendritic cells among the myeloid progeny of human CD34⁺ bone marrow precursors cultured with c-kit ligand, granulocyte-macrophage colony-stimulating factors and TNF- α* . J Immunol (1995) 154: 5851-5861.
- Takahashi H, Nakagawa Y, Yokomuro K, Berzofsky JA: *Induction of CD8⁺ cytotoxic T lymphocytes by immunization with syngeneic irradiated HIV-1 envelope derived peptide-pulsed dendritic cells*. Int. Immunol. (1993) 5: 849-857.
- Thomas R, Davis LS, Lipsky PE: *Isolation and characterisation of human peripheral blood dendritic cells*. J. Immunol. (1993) 150: 821-834.
- Thomas R, Lipsky PE: *Dendritic cells: origin and differentiation*. Stem Cells (1996) 14: 196-206.
- Thurnher M, Zelle-Rieser C: *Deficiency in eicosanoid production may limit the therapeutic efficacy of human monocyte-derived dendritic cells*. Mod. Asp. Immunobiol. (2001) 2: 58-61.
- Traversari C, Van der Bruggen P, Luescher IF, Lurquin C, Chomez P, Van Pel A, De Plaen E, Costeces AA, Boon T: *A nonapeptide encoded by human gene MAGE-1 is recognized on HLA-A1 by cytolytic T-lymphocytes directed against tumour antigen MZ2-*

E. J. Exp. Med. (1992) 176: 1453-1458.

Van der Bruggen P, Traversari C, Chomez P, Lurquin C, De Plaen E, Van den Eynde B, Knuth A, Boon T: *A gene encoding an antigen recognized by cytolytic T lymphocytes on a human melanoma*. Science (1991) 254: 1643-1647.

Van der Bruggen P, Szikora JP, Boel P, Wildmann C, Somville M, Sensi M, Boon T: *Autologous cytolytic T lymphocytes recognize a MAGE-1 nonapeptide on melanomas expressing HLA-Cw* 1601*. Eur. J. Immunol. (1994a) 24: 2134-2140.

Van der Bruggen P, Bastin J, Gajewski T, Coulie PG, Boel P, De Smet C, Traversari C, Townsend A, Boon T: *A peptide encoded by human gene MAGE-3 and presented by HLA-A2 induces cytolytic T lymphocytes that recognize tumor cells expressing MAGE-3*. Eur. J. Immunol. (1994b) 24: 3038-3043.

Wagner SN, Wagner C, Hofler H, Atkinson MJ, Goos M: *Expression cloning of the cDNA encoding a melanoma-associated antigen recognized by HMB-45: identification as melanocyte-specific Pmel17 cDNA*. Lab Invest (1995) 73: 229-235.

Wang RF, Robbins PF, Kawakami Y, Kang XQ, Rosenberg SA: *Identification of a gene encoding a melanoma tumor antigen recognized by HLA-A31-restricted tumor-infiltrating lymphocytes*. J. Exp. Med. (1995) 181: 799-804.

Weiner GJ: *The immunobiology and clinical potential of immunostimulatory CpG oligodeoxynucleotides* J. Leukoc. Biol. (2000) 68: 455-463

Weir D. (Ed.): *The Handbook of Experimental Immunology*. Vol. 1. 5. Aufl. Oxford (Blackwell Scientific Publications) 1996.

Willmann K, Legler DF, Loetscher M, Roos RS, Delgado MB, Clark-Lewis I, Baggiolini M, Moser B: *The chemokine SLC is expressed in T cell areas of lymph nodes and mucosal lymphoid tissues and attracts activated T cells via CCR7*. Eur. J. Immunol. (1998) 28: 2025-2034.

Wölfel T, Hauer M, Klehman E, Brichard V, Ackermann B, Knuth A, Boon T, Meyer zum Büschenfelde KH: *Analysis of antigens recognized on human melanoma cells by A2-restricted cytolytic T lymphocytes (CTL)*. Int. J. Cancer. (1993) 55: 234-244.

Wölfel T, Van Pel A, Brichard V, Schneider J, Seliger B, Meyer zum Büschenfelde KH, Boon T: *Two tyrosinase nonapeptides recognized on HLA-A2 melanomas by autologous cytolytic T lymphocytes*. Eur. J. Immunol. (1994) 24: 759-764.

Yanagihara S, Komura E, Nagafune J, Watarai H, Yamaguchi Y: *EBI1/CCR7 is a new member of dendritic cell chemokine receptor that is up-regulated upon maturation*. J. Immunol. (1998) 161: 3096-3102.

Yarbo JW: *The scientific basis of cancer chemotherapy*. In: „The Chemotherapy Source Book“ Perry MC (Ed.), Williams & Wilkins: Baltimore, 1992.

Zakut R, Topalian ASL, Kawakami Y, Mancini M, Eliyahu SE, Rosenberg SA: *Differential expression of MAGE-1, -2, -3 messenger RNA in transformed and normal cell lines*. Cancer Res. (1993) 53: 54-57.