

## **6 Literaturverzeichnis**

- Anisowicz A, Sotiropoulou G, Stenman G, Mok SC, Sager R. A novel protease homolog differentially expressed in breast and ovarian cancer. *Mol Medicine* 1996; 2: 624-636.
- Berinstein N. Overview of therapeutic vaccination approaches for cancer. *Semin Oncol.* 2003; 30 (3 Suppl 8): 1-8.
- Bocchia M, Bronte V, Colombo MP, De Vincentiis A, Di Nicola M, Forni G, Lanata L, Lemoli RM, Massaia M, Rondelli D, Zanon P, Tura S. Antitumor vaccination: where we stand. *Haematologica*. 2000; 85:1172-1206.
- Bockmann B, Grill HJ, Giesing M. Molecular characterization of minimal residual cancer cells in patients with solid tumors. *Biomol Eng* 2001; 17: 95-111.
- Boon T, van der Bruggen P. Human tumor antigens recognized by T lymphocytes. *J Exp Med* 1996; 183: 725-729.
- Burchill SA, Bradbury MF, Pittman K, Southgate J, Smith B, Selby P. Detection of epithelial cells in peripheral blood by reverse transcriptase-polymerase chain reaction. *Brit J Cancer* 1995; 71: 278-281.
- Bustin S, Dorudi S. Molecular assessment of tumor stage and disease recurrence using PCR-based assays. *Mol Med Today* 1998; 4: 389-396.
- Bustin SA, Gyselman VG, Williams NS, Dorudo S. Detection of cytokeratins 19/20 and guanylyl cyclase C in peripheral blood of colorectal cancer patients. *Brit J Cancer* 1999; 79: 1813-1820.
- Bustin SA. Quantification of mRNA using real-time reverse transcription PCR (RT-PCR): trends and problems. *J Mol Endocrinol* 2002; 29: 23-39.
- Campana D. Determination of minimal residual disease in leukaemia patients. *Br J Haematol* 2003;121: 823-838.

## LITERATURVERZEICHNIS

---

- Castells A, Boix L, Bessa X, Gargallo L, Piqué JM. Detection of colonic cells in peripheral blood of colorectal cancer patients by means of reverse transcriptase and polymerase chain reaction. *Brit J Cancer* 1998; 78: 1368-1372.
- Champelovier P, Mongelard F, Seigneurin D. CK20 gene expression: Technical limits for the detection of circulating tumor cells. *Anticancer Res* 1999; 19: 2073-2078.
- Chausovsky G, Luchansky M, Figer A, Shapira J, Gottfried M, Novis B, Bogelman G, Zemer R, Zimlichman S, Klein A. Expression of cytokeratin 20 in the blood of patients with disseminated carcinoma of the pancreas, colon, stomach, and lung. *Cancer* 1999; 86: 2398-2405.
- Chomczynski P, Sacchi N. Single step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. *Anal Biochem* 1987; 162: 156-159.
- Chretien S, Dubart A, Beaupain D, Raich N, Grandchamp B, Rosa J, Goossens M, Romeo PH. Alternative transcription and splicing of the human porphobilinogen deaminase gene result either in tissue-specific or in housekeeping expression. *Proc Natl Acad Sci U S A* 1988; 85:6-10.
- Cilloni D, Gottardi E, Fava M, Messa F, Carturan S, Busca A, Guerrasio A, Saglio G. Usefulness of quantitative assessment of the WT1 gene transcript as a marker for minimal residual disease detection. *Blood*. 2003; 102: 773-774.
- De Luca A, Pignata S, Casamassimi A, D'Antonio A, Gridelli C, Rossi A, Cremona F, Parisi V, De Matteis A, Normanno N. Detection of circulating tumor cells in carcinoma patients by a novel epidermal growth factor receptor reverse transcription-PCR assay. *Clin Cancer Res* 2000; 6: 1439-1444.
- Deans GT, Parks TG, Rowlands BJ, Spence RA. Prognostic factors in colorectal cancer. *Br J Surg* 1992; 79: 608-613.
- Denis MG, Lipart C, LeHur PA, Galmiche JP, Denis M, Ruud E, Truchaud A, Lustenberger P. Detection of disseminated tumor cells in peripheral blood of colorectal cancer patients. *Int J Cancer* 1997; 74: 540-544.
- Dimmeler A, Gerhards R, Betz C, Günther K, Reingruber B, Horbach T, Baumann I, Kirchner T, Hohenberger W, Papadopoulos. Transcription of cytokeratins 8, 18, and 19 in bone marrow and limited expression of cytokeratins 7 and 20 by carcinoma cells: Inherent limitations for RT-PCR in the detection of isolated tumor cells. *Lab Investigation* 2001; 81: 1351-1361.

## LITERATURVERZEICHNIS

---

- Dolkens G. Detection of minimal residual disease. *Adv Cancer Res.* 2001; 82: 133-185.
- Eckert C, Scrideli CA, Taube T, Songia S, Wellmann S, Manenti M, Seeger K, Biondi A, Cazzaniga G. Comparison between TaqMan and LightCycler technologies for quantification of minimal residual disease by using immunoglobulin and T-cell receptor genes consensus probes. *Leukemia.* 2003; 17: 2517-2524.
- Engel H, Kleespies C, Friedrich J, Breidenbach M, Kallenborn A, Schondorf T, Kolhagen H, Mallmann P. Detection of circulating tumour cells in patients with breast or ovarian cancer by molecular cytogenetics. *Br J Cancer.* 1999; 81:1165-1173.
- Fidler IJ, Ellis LM. The implications of angiogenesis for the biology and therapy of cancer metastasis. *Cell.* 1994; 79: 185-188.
- Freeman WM, Walker J, Vrana KE. Quantitative RT-PCR: Pitfalls and Potential. *BioTechniques* 1999; 26: 112-125.
- Funaki NO, Tanaka J, Itami A, Kasamatsu T, Ohshio G, Onodera H, Monden K, Okino T, Imamura M. Detection of colorectal carcinoma cells in circulating peripheral blood by reverse transcription-polymerase chain reaction targeting cytokeratin-20 mRNA. *Life Sci* 1997; 60: 643-652.
- Funaki NO, Tanaka J, Sugiyama T, Ohshio G, Nonaka A, Yotsumoto F, Furutani M, Imamura M. Perioperative quantitative analysis of cytokeratin 20 mRNA in peripheral venous blood of patients with colorectal adenocarcinoma. *Oncol Rep* 2000; 7: 271-276.
- Funaro A, Horenstein AL, Santoro P, Cinti C, Gregorini A, Malavasi F. Monoclonal antibodies and therapy of human cancers. *Biotechnol Adv* 2000; 18: 385-401.
- Funke I, Schraut W. Meta-analyses of studies on bone marrow micrometastases: an independent prognostic impact remains to be substantiated. *J Clin Oncol.* 1998; 16: 557-566.
- Futamura M, Takagi Y, Koumura H, Kida H, Tanemura K, Saji S. Spread of colorectal cancer micrometastases in regional lymph nodes by reverse transcriptase-polymerase chain reactions for carcinoembryonic antigen and cytokeratin 20. *J Surgical Oncol* 1998; 68: 34-40.
- Gan L, Lee I, Smith R, Argonza-Barrett R, Lei H, McCuaig J, Moss P, Paeper B, Wang K. Sequencing and expression analysis of the serine protease gene cluster located in chromosome 19q13 region. *Gene.* 2000; 257: 119-130.

## LITERATURVERZEICHNIS

---

- Garg M, Moore H, Tobal K, Liu Yin JA. Prognostic significance of quantitative analysis of WT1 gene transcripts by competitive reverse transcription polymerase chain reaction in acute leukaemia. *Br J Haematol.* 2003; 123: 49-59.
- Gerhard M, Juhl H, Kalthoff H, Schreiber HW, Wagener C, Neumaier M. Specific detection of carcinoembryonic antigen-expressing tumor cells in bone marrow aspirates by polymerase chain reaction. *J Clin Oncol* 1994; 12: 725-729.
- Ghossein RA, Bhattacharya S. Molecular detection and characterization of circulating tumor cells and micrometastases in solid tumours. *Eur J Cancer* 2000; 36: 1681-1694.
- Goeminne JC, Guillaume T, Salmon M, Machiels JP, D'Hondt V, Symann M. Unreliability of carcinoembryonic antigen (CEA) reverse transcriptase-polymerase chain reaction (RT-PCR) in detecting contaminating breast cancer cells in peripheral blood stem cells due to induction of CEA by growth factors. *Bone Marrow Transplant* 1999; 24: 769-775.
- Goldenberg DM, Sharkey RM, Primus FJ. Carcinoembryonic antigen in histopathology: immunoperoxidase staining of conventional tissue sections. *J Natl Cancer Inst.* 1976; 57: 11-22.
- Guadagni F, Roselli M, Cosimelli M, Spila A, Cavaliere F, Arcuri R, D'Alessandro R, Fracasso PL, Casale V, Vecchione A, Casciani CU, Greiner JW, Schlom J. Quantitative analysis of CEA expression in colorectal adenocarcinoma and serum: lack of correlation. *Int J Cancer* 1997; 72: 949-954.
- Guadagni F, Kantor J, Aloe S, Carone MD, Spila A, D'Alessandro R, Abbolito MR, Cosimelli M, Graziano F, Carboni F, Carlini S, Perri P, et al. Detection of blood-borne cells in colorectal cancer patients by nested reverse transcription-polymerase chain reaction for carcinoembryonic antigen messenger RNA: longitudinal analysis and demonstration of its potential importance as an adjunct to multiple serum markers. *Cancer Res* 2001; 61: 2523-2532.
- Hampton R, Walker M, Marshall J, Juhl H. Differential expression of carcinoembryonic antigen (CEA) splice variants in whole blood of colon cancer patients and healthy volunteers: implication for the detection of circulating colon cancer cells. *Oncogene* 2002; 21: 7817-7823.
- Hardingham JE, Kotasek D, Sage RE, Eaton MC, Pascoe VH, Dobrovic A. Detection of circulating tumor cells in colorectal cancer by immunobead-PCR is a sensitive prognostic marker for relapse of disease. *Mol Med.* 1995; 1: 789-794.

## LITERATURVERZEICHNIS

---

- Hardingham JE, Hewett PJ, Sage RE, Finch JL, Nutall JD, Kotasek D, Dobrovic, A. Molecular detection of blood-borne epithelial cells in colorectal cancer patients and in patients with benign bowel disease. *Int J Cancer* 2000; 89: 8-13.
- Hartupe JC, Zhang H, Bonaldo MF, Soares MB, Dieckgraefe BK. Isolation and characterization of a cDNA encoding a novel member of the human regenerating protein family: Reg IV. *Biochim Biophys Acta* 2001; 1518: 287-293.
- Herfarth C, Weitz J. Progress in oncological visceral surgery: colon carcinoma. *Kongressbd Dtsch Ges Chir Kongr* 2001; 118: 95-100.
- Hinterberger W, Buxhofer V, Ogris E, Zelenka P, Kier P, Ruckser R, Dorner S, Habertheuer KH, Vedovelli H, Schindler S, Hinterberger-Fischer M. Significance of minimal residual disease for the estimation of the prognosis and for therapeutic decisions in solid tumors. *Acta Med Austriaca*. 2002; 29 Suppl 59:2-8.
- Holash J, Wiegand SJ, Yancopoulos GD. New model of tumor angiogenesis: dynamic balance between vessel regression and growth mediated by angiopoietins and VEGF. *Oncogene*. 1999; 18: 5356-5362.
- IMPACT B2: Efficacy of adjuvant fluorouracil and folinic acid in B2 colon cancer. International Multicentre Pooled Analysis of B2 Colon Cancer Trials (IMPACT B2) Investigators. *J Clin Oncol*. 1999;17: 1356-1363.
- Ito S, Nakanishi H, Hirai T, Kato T, Kodera Y, Feng Z, Kasai Y, Ito K, Akiyama S, Nakao A, Tatematsu M. Quantitative detection of CEA expressing free tumor cells in the peripheral blood of colorectal cancer patients during surgery with real-time RT-PCR on a LightCycler. *Cancer Letters* 2002; 183: 195-203.
- Jonas S, Windeatt S, O-Boateng A, Allen-Mersh, TG. Identification of carcinoembryonic antigen-producing cells circulating in the blood of patients with colorectal carcinoma by reverse transcriptase polymerase chain reaction. *Gut* 1996; 39: 717-721.
- Jung R, Krüger W, Hosch S, Holweg M, Kröger N, Guttensohn K, Wagener C, Neumaier M, Zander AR. Specificity of reverse transcriptase polymerase chain reaction assays designed for the detection of circulating cancer cells is influenced by cytokines in vivo and in vitro. *Brit J Cancer* 1998; 78: 1194-1198.
- Kasimir-Bauer S, Oberhoff C, Schindler AE, Seeber S. A summary of two clinical studies on tumor cell dissemination in primary and metastatic breast cancer: methods, prognostic significance and implication for alternative treatment protocols (Review). *Int J Oncol* 2002; 20: 1027-1034.

## LITERATURVERZEICHNIS

---

- Keilholz U, Willhauck M, Rimoldi D, Brasseur F, Dummer W, Rass K, De Vries T, Blaheta J, Voit C, Lethé B, Burchill S. Reliability of reverse transcription-polymerase chain reaction (RT-PCR)-based assays for the detection of circulating tumour cells: a quality-assurance initiative of the EORTC melanoma cooperative group. *Eur J Cancer* 1998; 34: 750-753.
- Kim DH, Park YS, Park CJ, Son KC, Nam ES, Shin HS, Ryu JW, Kim DS, Park CK, Park YE. Expression of the HMGI(Y) gene in human colorectal cancer. *Int J Cancer* 1999; 84: 376-380.
- Klein D. Quantification using real-time PCR technology: applications and limitations. *Trends Mol Med* 2002; 8: 257-260.
- Ko Y, Klinz M, Totzke G, Gouni-Berthold I, Sachinidis A, Vetter H. Limitations of the reverse transcription-polymerase chain reaction method for the detection of carcinoembryonic antigen-positive tumor cells in peripheral blood. *Clin Cancer Res* 1998; 4: 2141-2146.
- Koch M, Weitz J, Kienle P, Benner A, Willeke F, Lehnert T, Herfarth C, Von Knebel Doeberitz M. Comparative Analysis of tumor cell dissemination in mesenteric, central, and peripheral venous blood in patients with colorectal cancer. *Arch Surg* 2001; 136: 85-89.
- Kostler WJ, Brodowicz T, Hejna M, Wiltschke C, Zielinski CC. Detection of minimal residual disease in patients with cancer: a review of techniques, clinical implications, and emerging therapeutic consequences. *Cancer Detect Prev* 2000; 24: 376-403.
- Krüger W, Jung R, Kröger N, Guttensohn K, Fiedler W, Neumaier M, Jänicke F, Wagner C, Zander AR. Sensitivity of assays designed for the detection of disseminated epithelial tumor cells is influenced by cell separation methods. *Clin Chem* 2000; 46: 435-6.
- Kruse N, Pette M, Toyka K, Rieckmann P. Quantification of cytokine mRNA expression by RT PCR in samples of previously frozen blood. *J Immunol Methods* 1997; 210: 195-203.
- Kufer P, Zippelius A, Lutterbüse R, Mecklenburg I, Enzmann T, Montag A, Weckermann D, Passlick B, Prang N, Reichardt P, Dugas M, Köllermann MW, Pantel K, Riethmüller G. Heterogeneous Expression of MAGE-A genes in occult disseminated tumor cells: A novel multimarker reverse transcription-polymerase chain reaction for diagnosis of micrometastatic disease. *Cancer Res* 2002; 62: 251-261.

## LITERATURVERZEICHNIS

---

- Lamboooy LH, Gidding CE, van den Heuvel LP, Hulsbergen-van de Kaa CA, Ligtenberg M, Bokkerink JP, De Abreu RA. Real-time analysis of tyrosine hydroxylase gene expression: a sensitive and semiquantitative marker for minimal residual disease detection of neuroblastoma. *Clin Cancer Res* 2003; 9: 812-819.
- Liang P, Pardee AB. Differential display of eukaryotic messenger RNA by means of the polymerase chain reaction. *Science*. 1992; 257: 967-971.
- Liefers GJ, Cleton-Jansen AM, van de Velde CJ, Hermans J, van Krieken JH, Cornelisse CJ, Tollenaar RA. Micrometastases and survival in stage II colorectal cancer. *N Engl J Med*. 1998; 339: 223-228.
- Liefers GJ, Tollenaar RAEM. Cancer genetics and their application to individualised medicine. *Eur J Cancer* 2002; 38: 872-879.
- Lindemann F, Schlimok G, Dirschedl P, Witte J, Riethmüller G. Prognostic significance of micrometastatic tumour cells in bone marrow of colorectal cancer patients. *Lancet* 1992; 340: 685-689.
- Little VR, Warren RS, More D, Pallavicini MG. Molecular cytogenetic analysis of cytokeratin 20-labeled cells in primary tumors and bone marrow aspirates from colorectal carcinoma patients. *Cancer* 1997; 79: 1664-1670.
- Lupberger J, Kreuzer KA, Baskaynak G, Peters UR, le Coutre P, Schmidt CA. Quantitative analysis of beta-actin, beta-2-microglobulin and porphobilinogen deaminase mRNA and their comparison as control transcripts for RT-PCR. *Mol Cell Probes*. 2002; 16: 25-30.
- Masson D, Denis MG, Lustenberger P. Limitations of CD44v6 amplification for the detection of tumour cells in the blood of colorectal cancer patients. *Br J Cancer* 2000; 82: 1283-1289.
- Max N, Willhauck M, Wolf K, Thilo F, Reinhold U, Pawlita M, Thiel E, Keilholz U. Reliability of PCR-based detection of occult tumour cells: lessons from real-time RT-PCR. *Melanoma Res* 2001; 11: 1-8.
- McCarthy M. Antiangiogenesis drug promising for metastatic colorectal cancer. *Lancet*.  
2003; 361: 1959.
- Medhurst AD, Harrison DC, Read SJ, Campbell CA, Robbins MJ, Pangalos MN. The use of TaqMan RT-PCR assays for semiquantitative analysis of gene expression in CNS tissues and disease models. *J Neurosci Methods* 2000; 98: 9-20.

## LITERATURVERZEICHNIS

---

Menssen HD, Bertelmann E, Bartelt S, Schmidt RA, Pecher G, Schramm K, Thiel E. Wilms' tumor gene (WT1) expression in lung cancer, colon cancer and glioblastoma cell lines compared to freshly isolated tumor specimens. *J Cancer Res Clin Oncol* 2000; 126: 226-232.

Miwa S, Fujii H. Molecular basis of erythroenzymopathies associated with hereditary hemolytic anemia: tabulation of mutant enzymes. *Am J Hematol* 1996; 51:122-132.

Mocellin S, Rossi CR, Lise M, Marincola FM. Adjuvant immunotherapy for solid tumors: from promise to clinical application. *Cancer Immunol Immunother* 2002; 51: 583-595.

Moll R, Lowe A, Laufer J, Franke WW. Cytokeratin 20 in human carcinomas. A new histodiagnostic marker detected by monoclonal antibodies. *Am J Pathol* 1992; 140: 427-447.

Moll R, Zimbelmann R, Goldschmidt MD, Keith M, Laufer J, Kasper M, Koch PJ, Franke WW. The human gene encoding cytokeratin 20 and its expression during fetal development and in gastrointestinal carcinomas. *Differentiation*. 1993; 53: 75-93.

Mori M, Mimori K, Inoue H, Barnard GF, Tsuji K, Nanbara S, Ueo H, Akiyoshi T. Detection of cancer micrometastases in lymph nodes by reverse transcriptase-polymerase chain reaction. *Cancer Res* 1995; 55: 3417-3420.

Mori M, Mimori K, Ueo H, Karmine N, Barnard GF, Sugimachi K, Akiyoshi T. Molecular detection of circulating solid carcinoma cells in the peripheral blood: the concept of early systemic disease. *Int J Cancer* 1996; 68: 739-743.

Mori M, Mimori K, Ueo H, Tsuji K, Shiraishi T, Barnard GF, Sugimachi K, Akiyoshi T. Clinical significance of molecular detection of carcinoma cells in lymph nodes and peripheral blood by reverse transcription-polymerase chain reaction in patients with gastrointestinal or breast carcinomas. *J Clin Oncol* 1998; 16: 128-132.

Müller P, Schlimok G. Bone marrow „micrometastases“ of epithelial tumors: detection and clinical relevance. *J Cancer Res Clin Oncol*. 2000; 126: 607-618.

Neumaier M, Gerhard M, Wagener C. Diagnosis of micrometastases by the amplification of tissue-specific genes. *Gene* 1995; 159:43-47.

## LITERATURVERZEICHNIS

---

NIH consensus conference. Adjuvant therapy for patients with colon and rectal cancer. JAMA. 1990; 264: 1444-1450.

Ogawa H, Tamaki H, Ikegame K, Soma T, Kawakami M, Tsuboi A, Kim EH, Hosen N, Murakami M, Fujioka T, Masuda T, Taniguchi Y, Nishida S, Oji Y, Oka Y, Sugiyama H. The usefulness of monitoring WT1 gene transcripts for the prediction and management of relapse following allogeneic stem cell transplantation in acute type leukemia. Blood. 2003; 101: 1698-1704.

Oji Y, Ogawa H, Tamaki H, Oka Y, Tsuboi A, Kim EH, Soma T, Tatekawa T, Kawakami M, Asada M, Kishimoto T, Sugiyama H. Expression of the Wilms' tumor gene WT1 in solid tumors and its involvement in tumor cell growth. Jpn J Cancer Res 1999; 90: 194-204.

Pantel K, Von Knebel Doeberitz M. Detection and clinical relevance of micrometastatic cancer cells. Current Opinion Oncol 2000; 12: 95-101.

Park S, Lee B, Kim I, Choi I, Hong K, Ryu Y, Shin J, Park SC, Chung H, Chung J. Immunobead RT-PCR versus regular RT-PCR amplification of CEA mRNA in peripheral blood. J Cancer Res Clin Oncol 2001; 127: 489-494.

Pelkey TJ, Frierson HF Jr, Bruns DE. Molecular and immunological detection of circulating tumor cells and micrometastases from solid tumors. Clin Chem. 1996; 42: 1369-1381.

Racila E, Euhus D, Weiss AJ, Rao C, McConnell J, Terstappen LWMM, Uhr JW. Detection and characterization of carcinoma cells in the blood. Proc Natl Acad Sci USA 1998; 95: 4589-4594.

Ramaswamy S, Ross KN, Lander ES, Golub TR. A molecular signature of metastasis in primary solid tumors. Nat Genet. 2003; 33: 49-54.

Rivoltini L, Castelli C, Carrabba M, Mazzaferro V, Pilla L, Huber V, Coppa J, Gallino G, Scheibenbogen C, Squarcina P, Cova A, Camerini R, Lewis JJ, Srivastava PK, Parmiani G. Human tumor-derived heat shock protein 96 mediates in vitro activation and in vivo expansion of melanoma- and colon carcinoma-specific T cells. J Immunol. 2003; 171: 3467-3474.

Roggel F, Hocke S, Lindemann K, Sinz S, Welk A, Bosl M, Pabst M, Nusser N, Braun S, Schmitt M, Harbeck N. Minimal residual disease in breast cancer and gynecological malignancies: phenotype and clinical relevance. Recent Results Cancer Res 2003;162: 89-100.

## LITERATURVERZEICHNIS

---

Roovers RC, van der Linden E, de Bruine AP, Arends JW, Hoogenboom HR. Identification of colon tumour-associated antigens by phage antibody selections on primary colorectal carcinoma. Eur J Cancer. 2001; 37:542-549.

Schrewe H, Thompson J, Bona M, Hefta LJ, Maruya A, Hassauer M, Shively JE, von Kleist S, Zimmermann W. Cloning of the complete gene for carcinoembryonic antigen: analysis of its promoter indicates a region conveying cell type-specific expression. Mol Cell Biol 1990; 10: 2738-2748.

Seeliger H, Spatz H, Jauch KW. Minimal residual disease in gastric cancer. Recent Results Cancer Res 2003; 162: 79-87.

Shakhar G, Ben-Eliyahu S. Potential prophylactic measures against postoperative immunosuppression: could they reduce recurrence rates in oncological patients? Ann Surg Oncol 2003; 10: 972-992.

Soeth E, Röder C, Juhl H, Kremer B, Kalthoff H. The detection of disseminated tumor cells in bone marrow from colorectal-cancer patients by a cytokeratin-20-specific nested reverse-transcriptase-polymerase-chain reaction is related to the stage of disease. Int J Cancer 1996; 69: 278-282.

Soeth E, Vogel I, Röder C, Juhl H, Marxsen J, Krüger U, Henne-Brunns D, Kremer B, Kalthoff H. Comparative analysis of bone marrow and venous blood isolates from gastrointestinal cancer patients for the detection of disseminated tumor cells using reverse transcription PCR. Cancer Res 1997; 57: 3106-3110.

Solakoglu O, Maierhofer C, Lahr G, Breit E, Scheunemann P, Heumos I, Pichlmeier U, Schlimok G, Oberneder R, Kollermann MW, Kollermann J, Speicher MR, Pantel K. Heterogeneous proliferative potential of occult metastatic cells in bone marrow of patients with solid epithelial tumors. Proc Natl Acad Sci U S A. 2002; 99: 2246-2251.

Soong R, Beyser K, Basten O, Kalbe A, Rueschoff J, Tabiti K. Quantitative reverse transcription-polymerase chain reaction detection of cytokeratin 20 in noncolorectal lymph nodes. Clin Cancer Res 2001; 7: 3423-3429.

Straub B, Müller M, Krause H, Schrader M, Goessl C, Heicappel R, Miller K. Detection of prostate-specific antigen RNA before and after radical retropubic prostatectomy and transurethral resection of the prostate using „light-cycler“-based quantitative real-time polymerase chain reaction. Urology 2001; 58: 815-820.

## LITERATURVERZEICHNIS

---

Sugiyama H. Wilms' tumor gene WT1: its oncogenic function and clinical application. *Int J Hematol* 2001; 73: 177-187.

Tchirkov A, Paillard C, Halle P, Bernard F, Bordigoni P, Vago P, Demeocq F, Kanold J. Significance of molecular quantification of minimal residual disease in metastatic neuroblastoma. *J Hematother Stem Cell Res* 2003; 12: 435-442.

Thompson J, Zimmermann W, Nollau P, Neumaier M, Weber-Arden J, Schrewe H, Craig I, Willcocks T. CGM2, a member of the carcinoembryonic antigen gene family is down-regulated in colorectal carcinomas. *J Biol Chem* 1994; 269: 32924-32931.

Ueda T, Furui J, Komuta K, Yamaguchi J, Yamamoto M, Furukawa K, Kanematsu T. Detection of carcinoembryonic antigen mRNA in the mesenteric vein of patients with resectable colorectal cancer. *Surgery Today* 1998; 28: 701-706.

Van Eekelen JAM, Shammas FV, Wee L, Heikkilä R, Osland A. Quantitative analysis of cytokeratin 20 gene expression using RT-PCR and capillary electrophoresis with fluorescent DNA detection. *Clin Biochem* 2000; 33: 457-464.

Vidriales MB, San-Miguel JF, Orfao A, Coustan-Smith E, Campana D. Minimal residual disease monitoring by flow cytometry. *Best Pract Res Clin Haematol* 2003; 16: 599-612.

Violette S, Festor E, Pandrea-Vasile I, Mitchell V, Adida C, Dussault E, Lacorte JM, Chambaz J, Lacasa M, Lesuffleur T. Reg IV, a new member of the regenerating gene family, is overexpressed in colorectal carcinomas. *Int J Cancer*. 2003; 103: 185-193.

Vleminckx F, Soong R, Diepstra H, Punt C, Wobbes T, Tabiti K, Van Muijen Goos. Effect of blood sample handling and reverse transcriptase-polymerase chain reaction assay sensitivity on the detection of CK20 expression in healthy donor blood. *Diagn Mol Pathol* 2002; 11: 90-7.

Voena C, Malnati M, Majolino I, Faga G, Montefusco V, Farina L, Santoro A, Ladetto M, Boccadoro M, Corradini P. Detection of minimal residual disease by real-time PCR can be used as a surrogate marker to evaluate the graft-versus-myeloma effect after allogeneic stem cell transplantation. *Bone Marrow Transplant*. 2003 ; 32: 791-793.

## LITERATURVERZEICHNIS

---

Weitz J, Kienle P, Lacroix J, Willeke F, Benner A, Lehnert T, Herfarth C, Von Knebel Doeberitz, M. Dissemination of tumor cells in patients undergoing surgery for colorectal cancer. *Clin Cancer Res* 1998; 4: 343-348.

Weitz J, Kienle P, Magener A, Koch M, Schrödel A, Willeke F, Autschbach F, Lacroix J, Lehnert T, Herfarth C, V. Knebel Doeberitz M. Detection of disseminated colorectal cancer cells in lymph nodes, blood and bone marrow. *Clin Cancer Res* 1999; 5: 1830-1836.

Weitz J, Herfarth C. Surgical Strategies and minimal residual disease detection. *Semin Surg Oncol* 2001; 20: 329-333.

Welt S, Ritter G, Williams C Jr, Cohen LS, John M, Jungbluth A, Richards EA, Old LJ, Kemeny NE. Phase I study of anticolon cancer humanized antibody A33. *Clin Cancer Res*. 2003; 9: 1338-1346.

Wharton RQ, Jonas SK, Glover C, Khan ZAJ, Klokouzas A, Quinn H, Henry M, Allen-Mersh TG. Increased detection of circulating tumor cells in the blood of colorectal carcinoma patients using two reverse transcription-PCR assays and multiple blood samples. *Clin Cancer Res* 1999; 5: 4158-4163.

Wyld DK, Selby P, Perren TJ, Jonas SK, Allen-Mersh TG, Wheeldon J, Burchill SA. Detection of colorectal cancer cells in peripheral blood by reverse-transcriptase polymerase chain reaction for cytokeratin 20. *Int. J. Cancer* 1998; 79: 288-293.

Yamashiro K, Tsuruoka N, Kodama S, Tsujimoto M, Yamamura Y, Tanaka T, Nakazato H, Yamaguchi N. Molecular cloning of a novel trypsin-like serine protease (neurosin) preferentially expressed in brain. *Biochim Biophys Acta* 1997; 1350: 11-14.

Yang GP, Ross DT, Kuang WW, Brown PO, Weigel RJ. Combining SSH and cDNA microarrays for rapid identification of differentially expressed genes. *Nucleic Acids Res*. 1999; 27: 1517-1523.

Yousef GM, Luo LY, Scherer SW, Sotiropoulou G, Diamandis EP. Molecular characterization of Zyme/Protease M/Neurosin (PRSS9), a hormonally regulated kallikrein-like serine protease. *Genomics* 1999; 62: 251-259.

## LITERATURVERZEICHNIS

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Zaniboni A, Labianca R, Marsoni S, Torri V, Mosconi P, Grilli R, Apolone G, Cifani S, Tinazzi A. GIVIO-SITAC 01: A randomized trial of adjuvant 5-fluorouracil and folinic acid administered to patients with colon carcinoma—long term results and evaluation of the indicators of health-related quality of life. Gruppo Italiano Valutazione Interventi in Oncologia. Studio Italiano Terapia Adiuvente Colon. *Cancer*. 1998; 82: 2135-2144.

Zhong XY, Kaul S, Thompson J, Eichler A, Bastert G. Evaluation of the reverse transcriptase/polymerase chain reaction for carcinoembryonic antigen for the detection of breast cancer dissemination in bone marrow and peripheral blood. *J Cancer Res Clin Oncol* 1999; 125: 669-674.

Zhong XY, Kaul S, Lin YS, Eichler A, Bastert G. Sensitive detection of micrometastases in bone marrow from patients with breast cancer using immunomagnetic isolation of tumor cells in combination with reverse transcriptase/polymerase chain reaction for cytokeratin-19. *J Cancer Res Clin Oncol* 2000; 126: 212-218.

Zippelius A, Kufer P, Honold G, Köllermann MW, Oberneder R, Schlimok G, Riethmüller G, Pantel K. Limitations of reverse-transcriptase polymerase chain reaction analyses for detection of micrometastatic epithelial cancer cells in bone marrow. *J Clin Oncol* 1997; 15: 2701-2708.

Zippelius A, Pantel K. RT-PCR-based detection of occult disseminated tumor cells in peripheral blood and bone marrow of patients with solid tumors: An overview. *Ann New York Acad Sci* 2000a; 906: 110-123.

Zippelius A, Lutterbuse R, Riethmuller G, Pantel K. Analytical variables of reverse transcription-polymerase chain reaction-based detection of disseminated prostate cancer cells. *Clin Cancer Res*. 2000b; 6: 2741-2750.