

## Literaturverzeichnis

- [1] Krebs in Deutschland. 5.überarbeitete, aktualisierte Ausgabe. Gesellschaft der epidemiologischen Krebsregister in Deutschland e.V.und das RKI. Saarbrücken, 2006.
- [2] © Statistisches Bundesamt, Wiesbaden 2006, <http://www.destatis.de/basis/d/gesu/gesutab20.php#nicht>
- [3] Jemal A, Siegel R, Ward E, Murray T, Xu J, Thun MJ. Cancer statistics, 2007. *CA Cancer J Clin.* 2007 Jan-Feb;57(1):43-66.
- [4] Sakr WA, Grignon DJ, Crissman JD, Heilbrun LK, Cassin BJ, Pontes JJ, Haas GP. High grade prostatic intraepithelial neoplasia (HGPIN) and prostatic adenocarcinoma between the ages of 20-69: an autopsy study of 249 cases. *In Vivo.* 1994 May-Jun;8(3):439-43.
- [5] Boyle P, Severi G, Giles GG. The epidemiology of prostate cancer. *Urol Clin North Am.* 2003 May;30(2):209-17.
- [6] Eble JN, Sauter G, Epstein JI, Sesterhenn I. WHO Classification of Tumours. Pathology and Genetics. Tumours of the Urinary System and Male Genital Organs. Lyon, France: IARC Press; 2004:162-164
- [7] Sun XY, Donald SP, Phang JM. Testosterone and prostate specific antigen stimulate generation of reactiveoxygen species in prostate cancer cells. *Carcinogenesis.* 2001 Nov;22(11):1775-80.
- [8] Hussain T, Gupta S, Mukhtar H. Cyclooxygenase-2 and prostate carcinogenesis. *Cancer Lett.* 2003 Mar 10;191(2):125-35.
- [9] Hughes-Fulford M, Chen Y, Tjandrawinata RR. Fatty acid regulates gene expression and growth of human prostate cancer PC-3 cells. *Carcinogenesis.* 2001 May;22(5):701-7.
- [10] Connolly JM, Coleman M, Rose DP. Effects of dietary fatty acids on DU 145 human prostate cancer cell growth in athymic nude mice. *Nutr Cancer.* 1997;29(2):114-9.
- [11] Hautmann, Richard und Huland, Hartwig. *Urologie* Springer, Berlin, 3. Auflage 2006;229-241
- [12] Börgermann C, Rübber H. Früherkennung des Prostatakarzinoms. *Dtsch Ärztebl* 2006;103(37):A 2399-406
- [13] Fachgesellschaften (2002):AWMF: S3-Leitlinie Nr. 043/036 PSA-Bestimmung in der Prostatakarzinomdiagnostik, [www.awmf-online.de](http://www.awmf-online.de)

- [14] Vergho DC, Heine K, Wolff JM. Stellenwert des prostataspezifischen Antigens (PSA) in der Primär- und Rezidivdiagnostik des Prostatakarzinoms. *Pathologe*. 2005 Nov;26(6):473-8.
- [15] Siegmund M, Alken P. Das Prostatakarzinom. Empfehlungen für eine standardisierte Diagnostik, Therapie und Nachsorge. © Tumorzentrum Heidelberg/Mannheim, 2. überarbeitete Auflage 1998, <http://www.dkfz-heidelberg.de/tzhdma/tr21.htm>
- [16] Fachgesellschaften (1998): AWMF: Leitlinie Nr. 043/022 Therapie des Prostatakarzinoms, [www.awmf-online.de](http://www.awmf-online.de)
- [17] Remmele, Wolfgang (Hrsg.) *Pathologie*. Springer, Berlin, 2. Auflage 1997; 5.Band:80-91
- [18] Mills, S.E. *Sternberg's Diagnostic Surgical Pathology*. Lippincott Williams & Wilkins; Fourth Edition 2004:2115-2122
- [19] Gleason DF. Classification of prostatic carcinomas. *Cancer Chemother Rep*. 1966 Mar;50(3):125-8.
- [20] Helpap B, Bocking A, Dhom G, Faul P, Kastendieck H, Leistenschneider W, Müller HA. Klassifikation, histologisches und zytologisches Grading sowie Regressionsgrading des Prostatakarzinoms. *Urologe A*. 1985 May;24(3):156-9.
- [21] Helpap B. Prognosefaktoren des Prostatakarzinoms. *Pathologe*. 1998 Jan;19(1):42-52.
- [22] Sobin LH, Wittekind C. *TNM classification of malignant tumors*. John Wiley & Sons Inc; 6.Auflage 2002:184-187
- [23] Bostwick DG, Grignon DJ, Hammond ME, Amin MB, Cohen M, Crawford D, Gospodarowicz M, Kaplan RS, Miller DS, Montironi R, Pajak TF, Pollack A, Srigley JR, Yarbrow JW. Prognostic factors in prostate cancer. College of American Pathologists Consensus Statement 1999. *Arch Pathol Lab Med*. 2000 Jul;124(7):995-1000.
- [24] Kristiansen G, Pilarsky C, Wissmann C, Stephan C, Weissbach L, Loy V, Loening S, Dietel M, Rosenthal A. ALCAM/CD166 is up-regulated in low-grade prostate cancer and progressively lost in high-grade lesions. *Prostate*. 2003 Jan 1;54(1):34-43.
- [25] Kristiansen G, Pilarsky C, Pervan J, Sturzebecher B, Stephan C, Jung K, Loening S, Rosenthal A, Dietel M. CD24 expression is a significant predictor of PSA relapse and poor prognosis in low grade or organ confined prostate cancer. *Prostate*. 2004 Feb 1;58(2):183-92.

- [26] Chakravarti A, Zhai GG. Molecular and genetic prognostic factors of prostate cancer. *World J Urol.* 2003 Sep;21(4):265-74.
- [27] Quinn DI, Henshall SM, Sutherland RL. Molecular markers of prostate cancer outcome. *Eur J Cancer.* 2005 Apr;41(6):858-87.
- [28] Bonkhoff H. Prognosefaktoren des Prostatakarzinoms. *Pathologe.* 2005 Nov;26(6):433-43.
- [29] Dennis LK, Lynch CF, Torner JC. Epidemiologic association between prostatitis and prostate cancer. *Urology.* 2002 Jul;60(1):78-83.
- [30] Dennis LK, Dawson DV. Meta-analysis of measures of sexual activity and prostate cancer. *Epidemiology.* 2002 Jan;13(1):72-9.
- [31] Palapattu GS, Sutcliffe S, Bastian PJ, Platz EA, De Marzo AM, Isaacs WB, Nelson WG. Prostate carcinogenesis and inflammation: emerging insights. *Carcinogenesis.* 2005 Jul;26(7):1170-81.
- [32] Nelson WG, De Marzo AM, DeWeese TL, Isaacs WB. The role of inflammation in the pathogenesis of prostate cancer. *J Urol.* 2004 Nov;172(5 Pt 2):6-11.
- [33] Tsujimoto Y, Takayama H, Nonomura N, Okuyama A, Aozasa K. Postatrophic hyperplasia of the prostate in Japan: histologic and immunohistochemical features and p53 gene mutation analysis. *Prostate.* 2002 Sep 1;52(4):279-87.
- [34] Shah R, Mucci NR, Amin A, Macoska JA, Rubin MA. Postatrophic hyperplasia of the prostate gland: neoplastic precursor or innocent bystander? *Am J Pathol.* 2001 May;158(5):1767-73.
- [35] Balkwill F, Mantovani A. Inflammation and cancer: back to Virchow? *Lancet.* 2001 Feb 17;357(9255):539-45.
- [36] Dvorak HF. Tumors: wounds that do not heal. Similarities between tumor stroma generation and wound healing. *N Engl J Med.* 1986 Dec 25;315(26):1650-9.
- [37] Miyamoto T, Ogino N, Yamamoto S, Hayaishi O. Purification of prostaglandin endoperoxide synthetase from bovine vesicular gland microsomes. *J Biol Chem.* 1976 May 10;251(9):2629-36.
- [38] DeWitt DL, Smith WL. Primary structure of prostaglandin G/H synthase from sheep vesicular gland determined from the complementary DNA sequence. *Proc Natl Acad Sci U S A.* 1988 Mar;85(5):1412-6.
- [39] Merlie JP, Fagan D, Mudd J, Needleman P. Isolation and characterization of the complementary DNA for sheep seminal vesicle prostaglandin endoperoxide synthase (cyclooxygenase). *J Biol Chem.* 1988 Mar 15;263(8):3550-3.

- [40] Yokoyama C, Takai T, Tanabe T. Primary structure of sheep prostaglandin endoperoxide synthase deduced from cDNA sequence. *FEBS Lett.* 1988 Apr 25;231(2):347-51.
- [41] Yokoyama C, Tanabe T. Cloning of human gene encoding prostaglandin endoperoxide synthase and primary structure of the enzyme. *Biochem Biophys Res Commun.* 1989 Dec 15;165(2):888-94.
- [42] Xie WL, Chipman JG, Robertson DL, Erikson RL, Simmons DL. Expression of a mitogen-responsive gene encoding prostaglandin synthase is regulated by mRNA splicing. *Proc Natl Acad Sci U S A.* 1991 Apr 1;88(7):2692-6.
- [43] Kujubu DA, Fletcher BS, Varnum BC, Lim RW, Herschman HR. TIS10, a phorbol ester tumor promoter-inducible mRNA from Swiss 3T3 cells, encodes a novel prostaglandin synthase/cyclooxygenase homologue. *J Biol Chem.* 1991 Jul 15;266(20):12866-72.
- [44] O'Banion MK, Winn VD, Young DA. cDNA cloning and functional activity of a glucocorticoid-regulated inflammatory cyclooxygenase. *Proc Natl Acad Sci U S A.* 1992 Jun 1;89(11):4888-92.
- [45] Hla T, Neilson K. Human cyclooxygenase-2 cDNA. *Proc Natl Acad Sci U S A.* 1992 Aug 15;89(16):7384-8.
- [46] Willoughby DA, Moore AR, Colville-Nash PR. COX-1, COX-2, and COX-3 and the future treatment of chronic inflammatory disease. *Lancet.* 2000 Feb 19;355(9204):646-8.
- [47] Chandrasekharan NV, Dai H, Roos KL, Evanson NK, Tomsik J, Elton TS, Simmons DL. COX-3, a cyclooxygenase-1 variant inhibited by acetaminophen and other analgesic/antipyretic drugs: cloning, structure, and expression. *Proc Natl Acad Sci U S A.* 2002 Oct 15;99(21):13926-31.
- [48] Dubois RN, Abramson SB, Crofford L, Gupta RA, Simon LS, Van De Putte LB, Lipsky PE. Cyclooxygenase in biology and disease. *FASEB J.* 1998 Sep;12(12):1063-73.
- [49] Hla T, Bishop-Bailey D, Liu CH, Schaeffers HJ, Trifan OC. Cyclooxygenase-1 and -2 isoenzymes. *Int J Biochem Cell Biol.* 1999 May;31(5):551-7.
- [50] Thun MJ, Henley SJ, Patrono C. Nonsteroidal anti-inflammatory drugs as anticancer agents: mechanistic, pharmacologic, and clinical issues. *J Natl Cancer Inst.* 2002 Feb 20;94(4):252-66.
- [51] Taketo MM. Cyclooxygenase-2 inhibitors in tumorigenesis (part I). *J Natl Cancer Inst.* 1998 Oct 21;90(20):1529-36.

- [52] Hussain T, Gupta S, Mukhtar H. Cyclooxygenase-2 and prostate carcinogenesis. *Cancer Lett.* 2003 Mar 10;191(2):125-35.
- [53] Pruthi RS, Derksen E, Gaston K. Cyclooxygenase-2 as a potential target in the prevention and treatment of genitourinary tumors: a review. *J Urol.* 2003 Jun;169(6):2352-9.
- [54] Vane JR. Inhibition of prostaglandin synthesis as a mechanism of action for aspirin-like drugs. *Nat New Biol.* 1971 Jun 23;231(25):232-5.
- [55] Karow T, Lang-Roth R. *Allgemeine und spezielle Pharmakologie und Toxikologie.* © by Thomas Karow, 14. Auflage 2006:536-42
- [56] Silverstein FE, Faich G, Goldstein JL, Simon LS, Pincus T, Whelton A, Makuch R, Eisen G, Agrawal NM, Stenson WF, Burr AM, Zhao WW, Kent JD, Lefkowitz JB, Verburg KM, Geis GS. Gastrointestinal toxicity with celecoxib vs nonsteroidal anti-inflammatory drugs for osteoarthritis and rheumatoid arthritis: the CLASS study: A randomized controlled trial. *Celecoxib Long-term Arthritis Safety Study. JAMA.* 2000 Sep 13;284(10):1247-55.
- [57] Bombardier C, Laine L, Reicin A, Shapiro D, Burgos-Vargas R, Davis B, Day R, Ferraz MB, Hawkey CJ, Hochberg MC, Kvien TK, Schnitzer TJ; VIGOR Study Group. Comparison of upper gastrointestinal toxicity of rofecoxib and naproxen in patients with rheumatoid arthritis. *VIGOR Study Group. N Engl J Med.* 2000 Nov 23;343(21):1520-8.
- [58] Bresalier RS, Sandler RS, Quan H, Bolognese JA, Oxenius B, Horgan K, Lines C, Riddell R, Morton D, Lanos A, Konstam MA, Baron JA; Adenomatous Polyp Prevention on Vioxx (APPROVe) Trial Investigators. Cardiovascular events associated with rofecoxib in a colorectal adenoma chemoprevention trial. *N Engl J Med.* 2005 Mar 17;352(11):1092-102.
- [59] Caldwell B, Aldington S, Weatherall M, Shirtcliffe P, Beasley R. Risk of cardiovascular events and celecoxib: a systematic review and meta-analysis. *J R Soc Med.* 2006 Mar;99(3):132-40.
- [60] Kearney PM, Baigent C, Godwin J, Halls H, Emberson JR, Patrono C. Do selective cyclo-oxygenase-2 inhibitors and traditional non-steroidal anti-inflammatory drugs increase the risk of atherothrombosis? Meta-analysis of randomised trials. *BMJ.* 2006 Jun 3;332(7553):1302-8.
- [61] Wilson KT, Fu S, Ramanujam KS, Meltzer SJ. Increased expression of inducible nitric oxide synthase and cyclooxygenase-2 in Barrett's esophagus and associated adenocarcinomas. *Cancer Res.* 1998 Jul 15;58(14):2929-34.

- [62] Ristimaki A, Honkanen N, Jankala H, Sipponen P, Harkonen M. Expression of cyclooxygenase-2 in human gastric carcinoma. *Cancer Res.* 1997 Apr 1;57(7):1276-80.
- [63] Tucker ON, Dannenberg AJ, Yang EK, Zhang F, Teng L, Daly JM, Soslow RA, Masferrer JL, Woerner BM, Koki AT, Fahey TJ 3rd. Cyclooxygenase-2 expression is up-regulated in human pancreatic cancer. *Cancer Res.* 1999 Mar 1;59(5):987-90.
- [64] Mohammed SI, Knapp DW, Bostwick DG, Foster RS, Khan KN, Masferrer JL, Woerner BM, Snyder PW, Koki AT. Expression of cyclooxygenase-2 (COX-2) in human invasive transitional cell carcinoma (TCC) of the urinary bladder. *Cancer Res.* 1999 Nov 15;59(22):5647-50.
- [65] Half E, Tang XM, Gwyn K, Sahin A, Wathen K, Sinicrope FA. Cyclooxygenase-2 expression in human breast cancers and adjacent ductal carcinoma in situ. *Cancer Res.* 2002 Mar 15;62(6):1676-81.
- [66] Matsumoto Y, Ishiko O, Deguchi M, Nakagawa E, Ogita S. Cyclooxygenase-2 expression in normal ovaries and epithelial ovarian neoplasms. *Int J Mol Med.* 2001 Jul;8(1):31-6.
- [67] Subbaramaiah K, Dannenberg AJ. Cyclooxygenase 2: a molecular target for cancer prevention and treatment. *Trends Pharmacol Sci.* 2003 Feb;24(2):96-102.
- [68] Dannenberg AJ, Subbaramaiah K. Targeting cyclooxygenase-2 in human neoplasia: rationale and promise. *Cancer Cell.* 2003 Dec;4(6):431-6.
- [69] Hull MA. Cyclooxygenase-2: how good is it as a target for cancer chemoprevention? *Eur J Cancer.* 2005 Sep;41(13):1854-63.
- [70] Liu CH, Chang SH, Narko K, Trifan OC, Wu MT, Smith E, Haudenschild C, Lane TF, Hla T. Overexpression of cyclooxygenase-2 is sufficient to induce tumorigenesis in transgenic mice. *J Biol Chem.* 2001 May 25;276(21):18563-9.
- [71] Neufang G, Furstenberger G, Heidt M, Marks F, Muller-Decker K. Abnormal differentiation of epidermis in transgenic mice constitutively expressing cyclooxygenase-2 in skin. *Proc Natl Acad Sci U S A.* 2001 Jun 19;98(13):7629-34.
- [72] Chulada PC, Thompson MB, Mahler JF, Doyle CM, Gaul BW, Lee C, Tiano HF, Morham SG, Smithies O, Langenbach R. Genetic disruption of PtgS-1, as well as PtgS-2, reduces intestinal tumorigenesis in Min mice. *Cancer Res.* 2000 Sep 1;60(17):4705-8.
- [73] Tiano HF, Loftin CD, Akunda J, Lee CA, Spalding J, Sessoms A, Dunson DB, Rogan EG, Morham SG, Smart RC, Langenbach R. Deficiency of either

- cyclooxygenase (COX)-1 or COX-2 alters epidermal differentiation and reduces mouse skin tumorigenesis. *Cancer Res.* 2002 Jun 15;62(12):3395-401.
- [74] Williams CS, Tsujii M, Reese J, Dey SK, DuBois RN. Host cyclooxygenase-2 modulates carcinoma growth. *J Clin Invest.* 2000 Jun;105(11):1589-94.
- [75] Oshima M, Dinchuk JE, Kargman SL, Oshima H, Hancock B, Kwong E, Trzaskos JM, Evans JF, Taketo MM. Suppression of intestinal polyposis in Apc delta716 knockout mice by inhibition of cyclooxygenase 2 (COX-2). *Cell.* 1996 Nov 29;87(5):803-9.
- [76] Masferrer JL, Leahy KM, Koki AT, Zweifel BS, Settle SL, Woerner BM, Edwards DA, Flickinger AG, Moore RJ, Seibert K. Antiangiogenic and antitumor activities of cyclooxygenase-2 inhibitors. *Cancer Res.* 2000 Mar 1;60(5):1306-11.
- [77] Visscher DW, Smilanz S, Drozdowicz S, Wykes SM. Prognostic significance of image morphometric microvessel enumeration in breast carcinoma. *Anal Quant Cytol Histol.* 1993 Apr;15(2):88-92.
- [78] Cheng T, Cao W, Wen R, Steinberg RH, LaVail MM. Prostaglandin E2 induces vascular endothelial growth factor and basic fibroblast growth factor mRNA expression in cultured rat Muller cells. *Invest Ophthalmol Vis Sci.* 1998 Mar;39(3):581-91.
- [79] Daniel TO, Liu H, Morrow JD, Crews BC, Marnett LJ. Thromboxane A2 is a mediator of cyclooxygenase-2-dependent endothelial migration and angiogenesis. *Cancer Res.* 1999 Sep 15;59(18):4574-7.
- [80] Sonoshita M, Takaku K, Sasaki N, Sugimoto Y, Ushikubi F, Narumiya S, Oshima M, Taketo MM. Acceleration of intestinal polyposis through prostaglandin receptor EP2 in Apc(Delta 716) knockout mice. *Nat Med.* 2001 Sep;7(9):1048-51.
- [81] Kimura M, Osumi S, Ogihara M. Stimulation of DNA synthesis and proliferation by prostaglandins in primary cultures of adult rat hepatocytes. *Eur J Pharmacol.* 2000 Sep 22;404(3):259-71.
- [82] Lu X, Xie W, Reed D, Bradshaw WS, Simmons DL. Nonsteroidal antiinflammatory drugs cause apoptosis and induce cyclooxygenases in chicken embryo fibroblasts. *Proc Natl Acad Sci U S A.* 1995 Aug 15;92(17):7961-5.
- [83] Uefuji K, Ichikura T, Mochizuki H. Cyclooxygenase-2 expression is related to prostaglandin biosynthesis and angiogenesis in human gastric cancer. *Clin Cancer Res.* 2000 Jan;6(1):135-8.

- [84] Li M, Wu X, Xu XC. Induction of apoptosis by cyclo-oxygenase-2 inhibitor NS398 through a cytochrome C-dependent pathway in esophageal cancer cells. *Int J Cancer*. 2001 Jul 15;93(2):218-23.
- [85] Ding XZ, Tong WG, Adrian TE. Blockade of cyclooxygenase-2 inhibits proliferation and induces apoptosis in human pancreatic cancer cells. *Anticancer Res*. 2000 Jul-Aug;20(4):2625-31.
- [86] Hida T, Kozaki K, Muramatsu H, Masuda A, Shimizu S, Mitsudomi T, Sugiura T, Ogawa M, Takahashi T. Cyclooxygenase-2 inhibitor induces apoptosis and enhances cytotoxicity of various anticancer agents in non-small cell lung cancer cell lines. *Clin Cancer Res*. 2000 May;6(5):2006-11.
- [87] Tsujii M, DuBois RN. Alterations in cellular adhesion and apoptosis in epithelial cells overexpressing prostaglandin endoperoxide synthase 2. *Cell*. 1995 Nov 3;83(3):493-501.
- [88] Chan TA, Morin PJ, Vogelstein B, Kinzler KW. Mechanisms underlying nonsteroidal antiinflammatory drug-mediated apoptosis. *Proc Natl Acad Sci U S A*. 1998 Jan 20;95(2):681-6.
- [89] Cao Y, Pearman AT, Zimmerman GA, McIntyre TM, Prescott SM. Intracellular unesterified arachidonic acid signals apoptosis. *Proc Natl Acad Sci U S A*. 2000 Oct 10;97(21):11280-5.
- [90] Takahashi Y, Kawahara F, Noguchi M, Miwa K, Sato H, Seiki M, Inoue H, Tanabe T, Yoshimoto T. Activation of matrix metalloproteinase-2 in human breast cancer cells overexpressing cyclooxygenase-1 or -2. *FEBS Lett*. 1999 Oct 22;460(1):145-8.
- [91] Attiga FA, Fernandez PM, Weeraratna AT, Manyak MJ, Patierno SR. Inhibitors of prostaglandin synthesis inhibit human prostate tumor cell invasiveness and reduce the release of matrix metalloproteinases. *Cancer Res*. 2000 Aug 15;60(16):4629-37.
- [92] Stolina M, Sharma S, Lin Y, Dohadwala M, Gardner B, Luo J, Zhu L, Kronenberg M, Miller PW, Portanova J, Lee JC, Dubinett SM. Specific inhibition of cyclooxygenase 2 restores antitumor reactivity by altering the balance of IL-10 and IL-12 synthesis. *J Immunol*. 2000 Jan 1;164(1):361-70.
- [93] Steinbach G, Lynch PM, Phillips RK, Wallace MH, Hawk E, Gordon GB, Wakabayashi N, Saunders B, Shen Y, Fujimura T, Su LK, Levin B. The effect of celecoxib, a cyclooxygenase-2 inhibitor, in familial adenomatous polyposis. *N Engl J Med*. 2000 Jun 29;342(26):1946-52

- [94] Turini ME, DuBois RN. Cyclooxygenase-2: a therapeutic target. *Annu Rev Med.* 2002;53:35-57.
- [95] Kutchera W, Jones DA, Matsunami N, Groden J, McIntyre TM, Zimmerman GA, White RL, Prescott SM. Prostaglandin H synthase 2 is expressed abnormally in human colon cancer: evidence for a transcriptional effect. *Proc Natl Acad Sci U S A.* 1996 May 14;93(10):4816-20.
- [96] Kargman SL, O'Neill GP, Vickers PJ, Evans JF, Mancini JA, Jothy S. Expression of prostaglandin G/H synthase-1 and -2 protein in human coloncancer. *Cancer Res.* 1995 Jun 15;55(12):2556-9.
- [97] DuBois RN, Radhika A, Reddy BS, Entingh AJ. Increased cyclooxygenase-2 levels in carcinogen-induced rat colonic tumors. *Gastroenterology.* 1996 Apr;110(4):1259-62.
- [98] Sheng H, Shao J, Kirkland SC, Isakson P, Coffey RJ, Morrow J, Beauchamp RD, DuBois RN. Inhibition of human colon cancer cell growth by selective inhibition of cyclooxygenase-2. *J Clin Invest.* 1997 May 1;99(9):2254-9.
- [99] Dixon DA, Kaplan CD, McIntyre TM, Zimmerman GA, Prescott SM. Post-transcriptional control of cyclooxygenase-2 gene expression. The role of the 3'-untranslated region. *J Biol Chem.* 2000 Apr 21;275(16):11750-7.
- [100] Appleby SB, Ristimaki A, Neilson K, Narko K, Hla T. Structure of the human cyclo-oxygenase-2 gene. *Biochem J.* 1994 Sep 15;302 ( Pt 3):723-7.
- [101] Ma WJ, Cheng S, Campbell C, Wright A, Furneaux H. Cloning and characterization of HuR, a ubiquitously expressed Elav-like protein. *J Biol Chem.* 1996 Apr 5;271(14):8144-51.
- [102] Keene JD. Why is Hu where? Shuttling of early-response-gene messenger RNA subsets. *Proc Natl Acad Sci U S A.* 1999 Jan 5;96(1):5-7.
- [103] Ma WJ, Cheng S, Campbell C, Wright A, Furneaux H. Cloning and characterization of HuR, a ubiquitously expressed Elav-like protein. *J Biol Chem.* 1996 Apr 5;271(14):8144-51.
- [104] Nabors LB, Furneaux HM, King PH. HuR, a novel target of anti-Hu antibodies, is expressed in non-neural tissues. *J Neuroimmunol.* 1998 Dec 1;92(1-2):152-9.
- [105] Anderson NE, Cunningham JM, Posner JB. Autoimmune pathogenesis of paraneoplastic neurological syndromes. *Crit Rev Neurobiol.* 1987;3(3):245-99.
- [106] Atasoy U, Watson J, Patel D, Keene JD. ELAV protein HuA (HuR) can redistribute between nucleus and cytoplasm and is upregulated during serum stimulation and T cell activation. *J Cell Sci.* 1998 Nov;111 ( Pt 21):3145-56.

- [107] Antic D, Keene JD. Messenger ribonucleoprotein complexes containing human ELAV proteins: interactions with cytoskeleton and translational apparatus. *J Cell Sci.* 1998 Jan;111 ( Pt 2):183-97.
- [108] Fan XC, Steitz JA. Overexpression of HuR, a nuclear-cytoplasmic shuttling protein, increases the in vivo stability of ARE-containing mRNAs. *EMBO J.* 1998 Jun 15;17(12):3448-60.
- [109] Peng SS, Chen CY, Xu N, Shyu AB. RNA stabilization by the AU-rich element binding protein, HuR, an ELAV protein. *EMBO J.* 1998 Jun 15;17(12):3461-70.
- [110] Levy NS, Chung S, Furneaux H, Levy AP. Hypoxic stabilization of vascular endothelial growth factor mRNA by the RNA-binding protein HuR. *J Biol Chem.* 1998 Mar 13;273(11):6417-23.
- [111] Jain RG, Andrews LG, McGowan KM, Gao F, Keene JD, Pekala PP. Hel-N1, an RNA-binding protein, is a ligand for an A + U rich region of the GLUT1 3' UTR. *Nucleic Acids Symp Ser.* 1995;(33):209-11.
- [112] Brennan CM, Steitz JA. HuR and mRNA stability. *Cell Mol Life Sci.* 2001 Feb;58(2):266-77.
- [113] Ma WJ, Chung S, Furneaux H. The Elav-like proteins bind to AU-rich elements and to the poly(A) tail of mRNA. *Nucleic Acids Res.* 1997 Sep 15;25(18):3564-9.
- [114] Gallouzi IE, Brennan CM, Stenberg MG, Swanson MS, Eversole A, Maizels N, Steitz JA. HuR binding to cytoplasmic mRNA is perturbed by heat shock. *Proc Natl Acad Sci U S A.* 2000 Mar 28;97(7):3073-8.
- [115] Fan XC, Steitz JA. HNS, a nuclear-cytoplasmic shuttling sequence in HuR. *Proc Natl Acad Sci U S A.* 1998 Dec 22;95(26):15293-8.
- [116] Fukuda M, Asano S, Nakamura T, Adachi M, Yoshida M, Yanagida M, Nishida E. CRM1 is responsible for intracellular transport mediated by the nuclear export signal. *Nature.* 1997 Nov 20;390(6657):308-11.
- [117] Gallouzi IE, Steitz JA. Delineation of mRNA export pathways by the use of cell-permeable peptides. *Science.* 2001 Nov 30;294(5548):1895-901.
- [118] Kaighn ME, Narayan KS, Ohnuki Y, Lechner JF, Jones LW. Establishment and characterization of a human prostatic carcinoma cell line (PC-3). *Invest Urol.* 1979 Jul;17(1):16-23.
- [119] Stone KR, Mickey DD, Wunderli H, Mickey GH, Paulson DF. Isolation of a human prostate carcinoma cell line (DU 145). *Int J Cancer.* 1978 Mar 15;21(3):274-81.

- [120] Horoszewicz JS, Leong SS, Chu TM, Wajsman ZL, Friedman M, Papsidero L, Kim U, Chai LS, Kakati S, Arya SK, Sandberg AA. The LNCaP cell line-a new model for studies on human prostatic carcinoma. *Prog Clin Biol Res.* 1980;37:115-32.
- [121] Remmele W, Stegner HE. Vorschlag zur einheitlichen Definition eines immunreaktiven Scores (IRS) für den immunhistochemischen Östrogenrezeptor-Nachweis (ER-ICA) im Mammkarzinomgewebe. *Pathologe.* 1987 May;8(3):138-40.
- [122] Werncke KD, Medizinische Biometrie-Planung und Auswertung medizinischer Studien, Institut für Medizinische Biometrie, Charité Universitätsmedizin, 2001 Oktober 16, 39-41
- [123] Tukey JW. *Exploratory Data Analysis. Limited Preliminary Ed.* Addison-Wesley Publishing, Reading, MA, 1970.
- [124] O'Neill GP, Ford-Hutchinson AW. Expression of mRNA for cyclooxygenase-1 and cyclooxygenase-2 in human tissues. *FEBS Lett.* 1993 Sep 13;330(2):156-60.
- [125] Gupta S, Srivastava M, Ahmad N, Bostwick DG, Mukhtar H. Over-expression of cyclooxygenase-2 in human prostate adenocarcinoma. *Prostate.* 2000 Jan;42(1):73-8.
- [126] Tanji N, Kikugawa T, Yokoyama M. Immunohistochemical study of cyclooxygenases in prostatic adenocarcinoma; relationship to apoptosis and Bcl-2 protein expression. *Anticancer Res.* 2000 Jul-Aug;20(4):2313-9.
- [127] Yoshimura R, Sano H, Masuda C, Kawamura M, Tsubouchi Y, Chargui J, Yoshimura N, Hla T, Wada S. Expression of cyclooxygenase-2 in prostate carcinoma. *Cancer.* 2000 Aug 1;89(3):589-96.
- [128] Kirschenbaum A, Klausner AP, Lee R, Unger P, Yao S, Liu XH, Levine AC. Expression of cyclooxygenase-1 and cyclooxygenase-2 in the human prostate. *Urology.* 2000 Oct 1;56(4):671-6.
- [129] Madaan S, Abel PD, Chaudhary KS, Hewitt R, Stott MA, Stamp GW, Lalani EN. Cytoplasmic induction and over-expression of cyclooxygenase-2 in human prostate cancer: implications for prevention and treatment. *BJU Int.* 2000 Oct;86(6):736-41.
- [130] Lee LM, Pan CC, Cheng CJ, Chi CW, Liu TY. Expression of cyclooxygenase-2 in prostate adenocarcinoma and benign prostatic hyperplasia. *Anticancer Res.* 2001 Mar-Apr;21(2B):1291-4.
- [131] Zang T, Sun F, Li Y. [Expression of COX-2 in prostatic cancer and benign prostatic hyperplasia] *Zhonghua Wai Ke Za Zhi.* 2001 Sep;39(9):702-3.

- [132] Shappell SB, Manning S, Boeglin WE, Guan YF, Roberts RL, Davis L, Olson SJ, Jack GS, Coffey CS, Wheeler TM, Breyer MD, Brash AR. Alterations in lipoxygenase and cyclooxygenase-2 catalytic activity and mRNA expression in prostate carcinoma. *Neoplasia*. 2001 Jul-Aug;3(4):287-303.
- [133] Uotila P, Valve E, Martikainen P, Nevalainen M, Nurmi M, Harkonen P. Increased expression of cyclooxygenase-2 and nitric oxide synthase-2 in human prostate cancer. *Urol Res*. 2001 Feb;29(1):23-8.
- [134] Zha S, Gage WR, Sauvageot J, Saria EA, Putzi MJ, Ewing CM, Faith DA, Nelson WG, De Marzo AM, Isaacs WB. Cyclooxygenase-2 is up-regulated in proliferative inflammatory atrophy of the prostate, but not in prostate carcinoma. *Cancer Res*. 2001 Dec 15;61(24):8617-23.
- [135] Wang W, Bergh A, Damber JE. Cyclooxygenase-2 expression correlates with local chronic inflammation and tumor neovascularization in human prostate cancer. *Clin Cancer Res*. 2005 May 1;11(9):3250-6.
- [136] Rubio J, Ramos D, Lopez-Guerrero JA, Iborra I, Collado A, Solsona E, Almenar S, Llombart-Bosch A. Immunohistochemical expression of Ki-67 antigen, cox-2 and Bax/Bcl-2 in prostate cancer; prognostic value in biopsies and radical prostatectomy specimens. *Eur Urol*. 2005 Nov;48(5):745-51.
- [137] Cohen BL, Gomez P, Omori Y, Duncan RC, Civantos F, Soloway MS, Lokeshwar VB, Lokeshwar BL. Cyclooxygenase-2 (COX-2) expression is an independent predictor of prostate cancer recurrence. *Int J Cancer*. 2006 Sep 1;119(5):1082-7.
- [138] Lim JT, Piazza GA, Han EK, Delohery TM, Li H, Finn TS, Buttyan R, Yamamoto H, Sperl GJ, Brendel K, Gross PH, Pamukcu R, Weinstein IB. Sulindac derivatives inhibit growth and induce apoptosis in human prostate cancer cell lines. *Biochem Pharmacol*. 1999 Oct 1;58(7):1097-107.
- [139] Liu XH, Kirschenbaum A, Yao S, Stearns ME, Holland JF, Claffey K, Levine AC. Upregulation of vascular endothelial growth factor by cobalt chloride-simulated hypoxia is mediated by persistent induction of cyclooxygenase-2 in a metastatic human prostate cancer cell line. *Clin Exp Metastasis*. 1999;17(8):687-94.
- [140] Hsu AL, Ching TT, Wang DS, Song X, Rangnekar VM, Chen CS. The cyclooxygenase-2 inhibitor celecoxib induces apoptosis by blocking Akt activation in human prostate cancer cells independently of Bcl-2. *J Biol Chem*. 2000 Apr 14;275(15):11397-403.

- [141] Subbarayan V, Sabichi AL, Llansa N, Lippman SM, Menter DG. Differential expression of cyclooxygenase-2 and its regulation by tumor necrosis factor-alpha in normal and malignant prostate cells. *Cancer Res.* 2001 Mar 15;61(6):2720-6.
- [142] Song X, Lin HP, Johnson AJ, Tseng PH, Yang YT, Kulp SK, Chen CS. Cyclooxygenase-2, player or spectator in cyclooxygenase-2 inhibitor-induced apoptosis in prostate cancer cells. *J Natl Cancer Inst.* 2002 Apr 17;94(8):585-91.
- [143] Patel MI, Subbaramaiah K, Du B, Chang M, Yang P, Newman RA, Cordon-Cardo C, Thaler HT, Dannenberg AJ. Celecoxib inhibits prostate cancer growth: evidence of a cyclooxygenase-2-independent mechanism. *Clin Cancer Res.* 2005 Mar 1;11(5):1999-2007.
- [144] Chen CC, Sun YT, Chen JJ, Chiu KT. TNF-alpha-induced cyclooxygenase-2 expression in human lung epithelial cells: involvement of the phospholipase C-gamma 2, protein kinase C-alpha, tyrosine kinase, NF-kappa B-inducing kinase, and I-kappa B kinase 1/2 pathway. *J Immunol.* 2000 Sep 1;165(5):2719-28.
- [145] Newton R, Kuitert LM, Bergmann M, Adcock IM, Barnes PJ. Evidence for involvement of NF-kappaB in the transcriptional control of COX-2 gene expression by IL-1beta. *Biochem Biophys Res Commun.* 1997 Aug 8;237(1):28-32.
- [146] Catley MC, Chivers JE, Cambridge LM, Holden N, Slater DM, Staples KJ, Bergmann MW, Loser P, Barnes PJ, Newton R. IL-1beta-dependent activation of NF-kappaB mediates PGE2 release via the expression of cyclooxygenase-2 and microsomal prostaglandin E synthase. *FEBS Lett.* 2003 Jul 17;547(1-3):75-9.
- [147] Chen P, Cai Y, Yang ZG, Zhou R, Zhang GS, Domann F, Fang X. Involvement of PKC, p38 MAPK and AP-2 in IL-1beta-induced expression of cyclooxygenase-2 in human pulmonary epithelial cells. *Respirology.* 2006 Jan;11(1):18-23.
- [148] Dandekar DS, Lokeshwar BL. Inhibition of cyclooxygenase (COX)-2 expression by Tet-inducible COX-2 antisense cDNA in hormone-refractory prostate cancer significantly slows tumor growth and improves efficacy of chemotherapeutic drugs. *Clin Cancer Res.* 2004 Dec 1;10(23):8037-47.
- [149] Liu XH, Yao S, Kirschenbaum A, Levine AC. NS398, a selective cyclooxygenase-2 inhibitor, induces apoptosis and down-regulates bcl-2 expression in LNCaP cells. *Cancer Res.* 1998 Oct 1;58(19):4245-9.
- [150] Kamijo T, Sato T, Nagatomi Y, Kitamura T. Induction of apoptosis by cyclooxygenase-2 inhibitors in prostate cancer cell lines. *Int J Urol.* 2001 Jul;8(7):S35-9.

- [151] Nabors LB, Gillespie GY, Harkins L, King PH. HuR, a RNA stability factor, is expressed in malignant brain tumors and binds to adenine- and uridine-rich elements within the 3' untranslated regions of cytokine and angiogenic factor mRNAs. *Cancer Res.* 2001 Mar 1;61(5):2154-61.
- [152] Lopez de Silanes I, Fan J, Yang X, Zonderman AB, Potapova O, Pizer ES, Gorospe M. Role of the RNA-binding protein HuR in colon carcinogenesis. *Oncogene.* 2003 Oct 16;22(46):7146-54.
- [153] Erkinheimo TL, Lassus H, Sivula A, Sengupta S, Furneaux H, Hla T, Haglund C, Butzow R, Ristimaki A. Cytoplasmic HuR expression correlates with poor outcome and with cyclooxygenase 2 expression in serous ovarian carcinoma. *Cancer Res.* 2003 Nov 15;63(22):7591-4.
- [154] Denkert C, Weichert W, Pest S, Koch I, Licht D, Kobel M, Reles A, Sehouli J, Dietel M, Hauptmann S. Overexpression of the embryonic-lethal abnormal vision-like protein HuR in ovarian carcinoma is a prognostic factor and is associated with increased cyclooxygenase 2 expression. *Cancer Res.* 2004 Jan 1;64(1):189-95.
- [155] Denkert C, Weichert W, Winzer KJ, Muller BM, Noske A, Niesporek S, Kristiansen G, Guski H, Dietel M, Hauptmann S. Expression of the ELAV-like protein HuR is associated with higher tumor grade and increased cyclooxygenase-2 expression in human breast carcinoma. *Clin Cancer Res.* 2004 Aug 15;10(16):5580-6.
- [156] Heinonen M, Bono P, Narko K, Chang SH, Lundin J, Joensuu H, Furneaux H, Hla T, Haglund C, Ristimaki A. Cytoplasmic HuR expression is a prognostic factor in invasive ductal breast carcinoma. *Cancer Res.* 2005 Mar 15;65(6):2157-61.
- [157] Erkinheimo TL, Sivula A, Lassus H, Heinonen M, Furneaux H, Haglund C, Butzow R, Ristimaki A. Cytoplasmic HuR expression correlates with epithelial cancer cell but not with stromal cell cyclooxygenase-2 expression in mucinous ovarian carcinoma. *Gynecol Oncol.* 2005 Oct;99(1):14-9.
- [158] Mrena J, Wiksten JP, Thiel A, Kokkola A, Pohjola L, Lundin J, Nordling S, Ristimaki A, Haglund C. Cyclooxygenase-2 is an independent prognostic factor in gastric cancer and its expression is regulated by the messenger RNA stability factor HuR. *Clin Cancer Res.* 2005 Oct 15;11(20):7362-8.
- [159] Denkert C, Koch I, von Keyserlingk N, Noske A, Niesporek S, Dietel M, Weichert W. Expression of the ELAV-like protein HuR in human colon cancer: association with tumor stage and cyclooxygenase-2. *Mod Pathol.* 2006 Sep;19(9):1261-9.

- [160] Dixon DA, Kaplan CD, McIntyre TM, Zimmerman GA, Prescott SM. Post-transcriptional control of cyclooxygenase-2 gene expression. The role of the 3'-untranslated region. *J Biol Chem*. 2000 Apr 21;275(16):11750-7.
- [161] Dixon DA, Tolley ND, King PH, Nabors LB, McIntyre TM, Zimmerman GA, Prescott SM. Altered expression of the mRNA stability factor HuR promotes cyclooxygenase-2 expression in colon cancer cells. *J Clin Invest*. 2001 Dec;108(11):1657-65.
- [162] Sengupta S, Jang BC, Wu MT, Paik JH, Furneaux H, Hla T. The RNA-binding protein HuR regulates the expression of cyclooxygenase-2. *J Biol Chem*. 2003 Jul 4;278(27):25227-33.
- [163] Lopez de Silanes I, Fan J, Yang X, Zonderman AB, Potapova O, Pizer ES, Gorospe M. Role of the RNA-binding protein HuR in colon carcinogenesis. *Oncogene*. 2003 Oct 16;22(46):7146-54.
- [164] Brennan CM, Gallouzi IE, Steitz JA. Protein ligands to HuR modulate its interaction with target mRNAs in vivo. *J Cell Biol*. 2000 Oct 2;151(1):1-14.
- [165] Walensky LD, Coffey DS, Chen TH, Wu TC, Pasternack GR. A novel M(r) 32,000 nuclear phosphoprotein is selectively expressed in cells competent for self-renewal. *Cancer Res*. 1993 Oct 1;53(19):4720-6.
- [166] Kadkol SS, Brody JR, Epstein JI, Kuhajda FP, Pasternack GR. Novel nuclear phosphoprotein pp32 is highly expressed in intermediate- and high-grade prostate cancer. *Prostate*. 1998 Feb 15;34(3):231-7.
- [167] Brody JR, Kadkol SS, Hauer MC, Rajaii F, Lee J, Pasternack GR. pp32 reduction induces differentiation of TSU-Pr1 cells. *Am J Pathol*. 2004 Jan;164(1):273-83.
- [168] Toyoshima F, Moriguchi T, Wada A, Fukuda M, Nishida E. Nuclear export of cyclin B1 and its possible role in the DNA damage-induced G2 checkpoint. *EMBO J*. 1998 May 15;17(10):2728-35.
- [169] Adachi M, Fukuda M, Nishida E. Nuclear export of MAP kinase (ERK) involves a MAP kinase kinase (MEK)-dependent active transport mechanism. *J Cell Biol*. 2000 Mar 6;148(5):849-56.
- [170] Lecane PS, Kiviharju TM, Sellers RG, Peehl DM. Leptomycin B stabilizes and activates p53 in primary prostatic epithelial cells and induces apoptosis in the LNCaP cell line. *Prostate*. 2003 Mar 1;54(4):258-67.
- [171] Kau TR, Silver PA. Nuclear transport as a target for cell growth. *Drug Discov Today*. 2003 Jan 15;8(2):78-85.

- [172] Newlands ES, Rustin GJ, Brampton MH. Phase I trial of elactocin. *Br J Cancer*. 1996 Aug;74(4):648-9.
- [173] Wang W, Fan J, Yang X, Furer-Galban S, Lopez de Silanes I, von Kobbe C, Guo J, Georas SN, Foufelle F, Hardie DG, Carling D, Gorospe M. AMP-activated kinase regulates cytoplasmic HuR. *Mol Cell Biol*. 2002 May;22(10):3425-36.
- [174] Hardie DG, Carling D. The AMP-activated protein kinase--fuel gauge of the mammalian cell? *Eur J Biochem*. 1997 Jun 1;246(2):259-73.
- [175] Xiang X, Saha AK, Wen R, Ruderman NB, Luo Z. AMP-activated protein kinase activators can inhibit the growth of prostate cancer cells by multiple mechanisms. *Biochem Biophys Res Commun*. 2004 Aug 13;321(1):161-7.
- [176] Yun H, Lee M, Kim SS, Ha J. Glucose deprivation increases mRNA stability of vascular endothelial growth factor through activation of AMP-activated protein kinase in DU 145 prostate carcinoma. *J Biol Chem*. 2005 Mar 18;280(11):9963-72.
- [177] Mahmud S, Franco E, Aprikian A. Prostate cancer and use of nonsteroidal anti-inflammatory drugs: systematic review and meta-analysis. *Br J Cancer*. 2004 Jan 12;90(1):93-9.
- [178] Bosetti C, Gallus S, La Vecchia C. Aspirin and cancer risk: an updated quantitative review to 2005. *Cancer Causes Control*. 2006 Sep;17(7):871-88.
- [179] Norrish AE, Jackson RT, McRae CU. Non-steroidal anti-inflammatory drugs and prostate cancer progression. *Int J Cancer*. 1998 Aug 12;77(4):511-5.
- [180] Neugut AI, Rosenberg DJ, Ahsan H, Jacobson JS, Wahid N, Hagan M, Rahman MI, Khan ZR, Chen L, Pablos-Mendez A, Shea S. Association between coronary heart disease and cancers of the breast, prostate and colon. *Cancer Epidemiol Biomarkers Prev*. 1998 Oct;7(10):869-73.
- [181] Menezes RJ, Swede H, Mettlin C, Moysich KB Regular aspirin use and risk of prostate cancer. *Proceedings of the American association for cancer research annual meeting*. San Francisco, USA. 2002;43:933
- [182] Irani J, Ravery V, Pariente JL, Chartier-Kastler E, Lechevallier E, Soulie M, Chautard D, Coloby P, Fontaine E, Bladou F, Desgrandchamps F, Haillot O. Effect of nonsteroidal anti-inflammatory agents and finasteride on prostate cancer risk. *J Urol*. 2002 Nov;168(5):1985-8.
- [183] Bosetti C, Talamini R, Negri E, Franceschi S, Montella M, La Vecchia C. Aspirin and the risk of prostate cancer. *Eur J Cancer Prev*. 2006 Feb;15(1):43-5.

- [184] Paganini-Hill A, Chao A, Ross RK, Henderson BE. Aspirin use and chronic diseases: a cohort study of the elderly. *BMJ*. 1989 Nov 18;299(6710):1247-50.
- [185] Thun MJ, Namboodiri MM, Calle EE, Flanders WD, Heath CW Jr. Aspirin use and risk of fatal cancer. *Cancer Res*. 1993 Mar 15;53(6):1322-7.
- [186] Schreinemachers DM, Everson RB. Aspirin use and lung, colon, and breast cancer incidence in a prospective study. *Epidemiology*. 1994 Mar;5(2):138-46.
- [187] Leitzmann MF, Stampfer MJ, Ma J, Chan JM, Colditz GA, Willett WC, Giovannucci E. Aspirin use in relation to risk of prostate cancer. *Cancer Epidemiol Biomarkers Prev*. 2002 Oct;11(10 Pt 1):1108-11.
- [188] Habel LA, Zhao W, Stanford JL. Daily aspirin use and prostate cancer risk in a large, multiracial cohort in the US. *Cancer Causes Control*. 2002 Jun;13(5):427-34.
- [189] Perron L, Bairati I, Moore L, Meyer F. Dosage, duration and timing of nonsteroidal antiinflammatory drug use and risk of prostate cancer. *Int J Cancer*. 2003 Sep 1;106(3):409-15.
- [190] Garcia Rodriguez LA, Gonzalez-Perez A. Inverse association between nonsteroidal anti-inflammatory drugs and prostate cancer. *Cancer Epidemiol Biomarkers Prev*. 2004 Apr;13(4):649-53.
- [191] Ratnasinghe LD, Graubard BI, Kahle L, Tangrea JA, Taylor PR, Hawk E. Aspirin use and mortality from cancer in a prospective cohort study. *Anticancer Res*. 2004 Sep-Oct;24(5B):3177-84.
- [192] Platz EA, Rohrmann S, Pearson JD, Corrada MM, Watson DJ, De Marzo AM, Landis PK, Metter EJ, Carter HB. Nonsteroidal anti-inflammatory drugs and risk of prostate cancer in the Baltimore Longitudinal Study of Aging. *Cancer Epidemiol Biomarkers Prev*. 2005 Feb;14(2):390-6.
- [193] Jacobs EJ, Rodriguez C, Mondul AM, Connell CJ, Henley SJ, Calle EE, Thun MJ. A large cohort study of aspirin and other nonsteroidal anti-inflammatory drugs and prostate cancer incidence. *Natl Cancer Inst*. 2005 Jul 6;97(13):975-80.
- [194] Pruthi RS, Derksen JE, Moore D. A pilot study of use of the cyclooxygenase-2 inhibitor celecoxib in recurrent prostate cancer after definitive radiation therapy or radical prostatectomy. *BJU Int*. 2004 Feb;93(3):275-8.
- [195] Pruthi RS, Derksen JE, Moore D, Carson CC, Grigson G, Watkins C, Wallen E. Phase II trial of celecoxib in prostate-specific antigen recurrent prostate cancer after definitive radiation therapy or radical prostatectomy. *Clin Cancer Res*. 2006 Apr 1;12(7 Pt 1):2172-7.

- [196] Dandekar DS, Lopez M, Carey RI, Lokeshwar BL. Cyclooxygenase-2 inhibitor celecoxib augments chemotherapeutic drug-induced apoptosis by enhancing activation of caspase-3 and -9 in prostate cancer cells. *Int J Cancer*. 2005 Jun 20;115(3):484-92.
- [197] Arber N, Eagle CJ, Spicak J, Racz I, Dite P, Hajer J, Zavoral M, Lechuga MJ, Gerletti P, Tang J, Rosenstein RB, Macdonald K, Bhadra P, Fowler R, Wittes J, Zauber AG, Solomon SD, Levin B; PreSAP Trial Investigators. Celecoxib for the prevention of colorectal adenomatous polyps. *N Engl J Med*. 2006 Aug 31;355(9):885-95.
- [198] Baron JA, Sandler RS, Bresalier RS, Quan H, Riddell R, Lanas A, Bolognese JA, Oxenius B, Horgan K, Loftus S, Morton DG; APPROVe Trial Investigators. A randomized trial of rofecoxib for the chemoprevention of colorectal adenomas. *Gastroenterology*. 2006 Dec;131(6):1674-82.
- [199] Bertagnolli MM, Eagle CJ, Zauber AG, Redston M, Solomon SD, Kim K, Tang J, Rosenstein RB, Wittes J, Corle D, Hess TM, Woloj GM, Boisserie F, Anderson WF, Viner JL, Bagheri D, Burn J, Chung DC, Dewar T, Foley TR, Hoffman N, Macrae F, Pruitt RE, Saltzman JR, Salzberg B, Sylwestrowicz T, Gordon GB, Hawk ET; APC Study Investigators. Celecoxib for the prevention of sporadic colorectal adenomas. *N Engl J Med*. 2006 Aug 31;355(9):873-84.
- [200] Solomon SD, McMurray JJ, Pfeffer MA, Wittes J, Fowler R, Finn P, Anderson WF, Zauber A, Hawk E, Bertagnolli M; Adenoma Prevention with Celecoxib (APC) Study Investigators. Cardiovascular risk associated with celecoxib in a clinical trial for colorectal adenoma prevention. *N Engl J Med*. 2005 Mar 17;352(11):1071-80.