

The Swedish National Biobank Program

Cumulative List of Publications 2002-2004

The List is assembled from the Annual Reports of the Work Packages of the National Biobank Program. Total number of publications is 181.

Juni Palmgren, WP 2 reports the following publications:

Gu, H.F., Abulaiti, A., Östenson, C-G, Humphreys, K., Wahlestedt, C., Brookes, A.J., Efendic, S. Single nucleotide polymorphisms in the proximal promoter region of the adiponectin (APM1) gene are associated with type 2 diabetes in Swedish caucasians. *Diabetes* 53 Suppl 1: S31-S35, 2004.

Pawitan, Y., Bjöhle, J., Wedren, S., Humphreys, K., Skoog, L., Huang, F., Amler, L., Shaw, P., Hall, P., Bergh, J. Gene expression profiling for prognosis using Cox regression. *Statistics in Medicine* 23: 1767-1780, 2004.

Wedren, S., Lovmar, L., Humphreys, K., Magnusson, C., Melhus, H., Syvanen, AC., Kindmark, A., Landegren, U., Lagerström-Fermer, M., Stiger, F., Persson, I., Baron, J., Weiderpass, E. Oestrogen receptor alpha gene haplotype and postmenopausal breast cancer risk: a case control study. *Breast Cancer Res.* 6(4): R437-R449, 2004.

Ripatti S, Gatz M, Pedersen NL, Palmgren J. Three-state frailty model for age at onset of dementia and death in Swedish twins. *Genet Epidemiol.* 24: 139-149, 2003.

Pedersen N.L., Ripatti S, Berg S, Reynolds C, Hofer SM, Finkel D, Gatz M, Palmgren J. The influence of mortality on twin models of change: addressing missingness through multiple imputation. *Behav Genet.* 33: 161-169, 2003.

Humphreys, K. Estimating haplotype phase from population-based case-control study data and association analysis of comorbidity. Manuscript in preparation.

Humphreys, K. and Wedren, S. (2002). Efficient estimation of haplotype phase for casecontrol data. Contributed paper, International Biometric Conference, Freiburg, Germany. (Abstract).

Grünewald M., Pedersen N., Arner P, Brookes T., Palmgren J. Linkage disequilibrium mapping using a case-control design and continuous phenotype measurements. Contributed paper, International Biometric Conference, Freiburg, Germany. (Abstract).

Dominicus A., Ripatti S., Pedersen N.L., Palmgren J. Modeling cognitive ability from longitudinal data with dropout and death. Contributed paper, International Biometric

Conference, Freiburg, Germany. (Abstract).

Göran Hallmans, WP 1 and 4.1 reports the following publications:

Anttila T, Tenkanen L, Lumme S, Leinonen M, Gislefoss RE, Hallmans G, Thoresen S, Hakulinen T, Luostarinen T, Stattin P, Saikku P, Dillner J, Lehtinen M, Hakama M. Chlamydial antibodies and risk of prostate cancer. *Cancer Epidemiol Biomarkers Prev* 2005; 14(2): 385-389.

Van Gils CH, Peeters PH, Bueno de Mesquita HB, Boshuizen HC, Lahmann PH, Clavel-Chapelon F, Thiebaut A, Kesse E, Sieri S, Palli D, Tumino R, Panico S, Vineis P, Gonzalez CA, Ardanaz E, Sanchez MJ, Amiano P, Navarro C, Quiros JR, Key TJ, Allen N, Khaw KT, Bingham SA, Psaltopoulou T, Koliva M, Trichopoulou A, Nagel G, Linseisen J, Boeing H, Berglund G, Wirfalt E, Hallmans G, Lenner P, Overvad K, Tjonneland A, Olsen A, Lund E, Engeset D, Alsaker E, Norat T, Kaaks R, Slimani N, Riboli E. Consumption of vegetables and fruits and risk of breast cancer. *JAMA* 2005; 293(2): 183-193.

Hultdin J, Van Guelpen B, Bergh A, Hallmans G, Stattin P. Plasma folate, vitamin B12, and homocysteine and prostate cancer risk: a prospective study. *Int J Cancer* 2005; 113(5): 819-824.

Rinaldi S, Kaaks R, Zeleniuch-Jacquotte A, Arslan AA, Shore RE, Koenig KL, Dossus L, Riboli E, Stattin P, Lukanova A, Toniolo P. Insulin-like growth factor-I, IGF binding protein-3, and breast cancer in young women: a comparison of risk estimates using different peptide assays. *Cancer Epidemiol Biomarkers Prev* 2005; 14(1): 48-52.

Vineis P, Airolidi L, Veglia P, Olgiati L, Pastorelli R, Autrup H, Dunning A, Garte S, Gormally E, Hainaut P, Malaveille C, Matullo G, Peluso M, Overvad K, Tjonneland A, Clavel-Chapelon F, Boeing H, Krogh V, Palli D, Panico S, Tumino R, Bueno De Mesquita B, Peeters P, Berglund G, Hallmans G, Saracci R, Riboli E. Environmental tobacco smoke and risk of respiratory cancer and chronic obstructive pulmonary disease in former smokers and never smokers in the EPIC prospective study. *BMJ* 2005; 330(7486): 277.

Berglin E, Padyukov L, Sundin U, Hallmans G, Stenlund H, van Venrooij WJ, Klareskog L, Dahlqvist SR. A combination of autoantibodies to cyclic citrullinated peptide (CCP) and HLA-DRB1 locus antigens is strongly associated with future onset of rheumatoid arthritis. *Arthritis Res Ther* 2004; 6: R303-R308.

Chen J, Lindmark-Månsson H, Drevelius M, Tidehag P, Hallmans G, Hertervig E, Nilsson Å, Åkesson B. Bioavailability of selenium from bovine milk as assessed in subjects with ileostomy. *Eur J Clin Nutr* 2004; 58: 350-355.

Gormally E, Hainaut P, Caboux E, Airolidi L, Autrup H, Malaveille C, Dunning A, Garte S, Matullo G, Overvad K, Tjonneland A, Clavel-Chapelon F, Boffetta P, Boeing H, Trichopoulou A, Palli D, Krogh V, Tumino R, Panico S, Bueno de Mesquita HB, Peeters PH, Lund E, Gonzalez CA, Martinez C, Dorronsoro M, Barricarte A, Tormo MJ, Quiros JR, Berglund G, Hallmans G, Day NE, Key TJ, Veglia F, Peluso M, Norat T, Saracci R, Kaaks R, Riboli E, Vineis P. Amount of DNA in plasma and cancer risk: a prospective study. *Int J Cancer*. 2004; 111(5): 746-749.

Hultdin J, Thogersen AM, Jansson JH, Nilsson TK, Weinehall L, Hallmans G. Elevated plasma homocysteine: cause or consequence of myocardial infarction? *J Intern Med* 2004; 256(6): 491-498.

Johansson L, Jansson JH, Stegmayr B, Nilsson TK, Hallmans G, Boman K. Hemostatic factors as risk markers for intracerebral hemorrhage: a prospective incident case-referent study. *Stroke* 2004; 35(4): 826-830.

Key TJ, Allen N, Appleby P, Overvad K, Tjønneland A, Miller A, Boeing H, Karalis D, Psaltopoulou T, Berrino F, Palli D, Panico S, Tumino R, Vineis P, Bueno de Mesquita HB, Kiemeny L, Peeters PHM, Martinez C, Dorronsoro M, González CA, Chirlaque MD, Quiros JR, Ardanaz E, Berglund G, Egevad L, Hallmans G, Stattin P, Bingham S, Day N, Gann P, Kaaks R, Ferrari P, Riboli E. Fruits and vegetables and prostate cancer: No association among 1,104 cases in a prospective study of 130,544 men in the European Prospective Investigation into Cancer and Nutrition (EPIC). *Int J Cancer* 2004; 109: 119-124.

Knekt P, Ritz J, Pereira M-A, O'reilly E-J, Augustsson K, Fraser G-E, Goldbourt U, Heitmann B-L, Hallmans G, Liu S, Pietinen P, Spiegelman D, Stevens J, Virtamo J, Willett W-C, Rimm E-B, Ascherio A. Antioxidant vitamins and coronary heart disease risk: a pooled analysis of 9 cohorts. *Am J Clin Nutr* 2004; 80(6): 1508-1520.

Lahmann PH, Hoffmann K, Allen N, van Gils CH, Khaw KT, Tehard B, Berrino F, Tjønneland A, Bigaard J, Olsen A, Overvad K, Clavel Chapelon F, Nagel G, Boeing H, Trichopoulos D, Economou G, Bellos G, Palli D, Tumino R, Panico S, Sacerdote C, Krogh V, Peeters P-H, Bueno de Mesquita HB, Lund E, Ardanaz E, Amiano P, Pera G, Quiros JR, Martinez C, Tormo MJ, Wirfalt E, Berglund G, Hallmans G, Key T-J, Reeves G, Bingham S, Norat T, Biessy C, Kaaks R, Riboli E. Body size and breast cancer risk: findings from the European Prospective Investigation into Cancer And Nutrition (EPIC). *Int J Cancer* 2004; 111(5): 762-771.

Lukanova A, Lundin E, Micheli A, Arslan A, Ferrari P, Rinaldi S, Krogh V, Lenner P, Shore RE, Biessy C, Muti P, Riboli E, Koenig KL, Levitz M, Stattin P, Berrino F, Hallmans G, Kaaks R, Toniolo P, Zeleniuch-Jacquotte A. Circulating levels of sex steroid hormones and risk of endometrial cancer in postmenopausal women. *Int J Cancer* 2004; 108(3): 425-432.

Lukanova A, Lundin E, Zeleniuch-Jacquotte A, Muti P, Mure A, Rinaldi S, Dossus L, Micheli A, Arslan A, Lenner P, Shore R E, Krogh V, Koenig K L, Riboli E, Berrino F, Hallmans G, Stattin P, Toniolo P and Kaaks R. Body mass index, circulating levels of sex-steroid hormones, IGF-I and IGF-binding protein-3: a cross-sectional study in healthy women. *Eur J Endocrinol* 2004; 150(2): 161-171.

Lukanova A, Zeleniuch-Jacquotte A, Lundin E, Micheli A, Arslan AA, Rinaldi S, Muti P, Lenner P, Koenig KL, Biessy C, Krogh V, Riboli E, Shore RE, Stattin P, Berrino F, Hallmans G, Toniolo P, Kaaks R. Prediagnostic levels of C-peptide, IGF-I, IGFBP -1, -2 and -3 and risk of endometrial cancer. *Int J Cancer* 2004; 108(2): 262-268.

Luo D, Gilliam LK, Greenbaum C, Bekris L, Hampe CS, Daniels T, Richter W, Marcovina SM, Rolandsson O, Landin-Olsson M, Kockum I, Lernmark A. Conformation-dependent GAD65 autoantibodies in diabetes. *Diabetologia* 2004; 47(9):1581-1591.

Luostarinen T, Lehtinen M, Bjørge T, Abeler V, Hakama M, Hallmans G, Jellum E, Koskela P, Lenner P, Lie AK, Paavonen J, Pukkala E, Saikku P, Sigstad E, Thoresen S, Youngman LD, Dillner J, Hakulinen T. Joint effects of different HPV and Chlamydia trachomatis infections on risk of squamous cell carcinoma of the cervix uteri. *Eur J Cancer* 2004; 40: 1058-1065.

Miller AB, Altenburg HP, Bueno de Mesquita B, Boshuizen HC, Agudo A, Berrino F, Gram IT, Janson L, Linseisen J, Overvad K, Rasmuson T, Vineis P, Lukanova A, Allen N, Amiano P, Barricarte A, Berglund G, Boeing H, Clavel-Chapelon F, Day NE, Hallmans H, Lund E, Martinez C, Navarro C, Palli D, Panico S, Peeters PHM, Quirós JR, Tjønneland A, Tumino R, Trichopoulou A, Trichopoulos D, Slimani N, Riboli E. Fruits and vegetables and lung cancer: Findings from the European prospective investigation into cancer and nutrition. *Int J Cancer* 2004; 108: 269-276.

Pereira MA, O'Reilly E, Augustsson K, Fraser GE, Goldbourt U, Heitmann BL, Hallmans G, Knekt P, Liu S, Pietinen P, Spiegelman D, Stevens J, Virtamo J, Willett WC, Ascherio A. Dietary Fiber and Risk of Coronary Heart Disease: A Pooled Analysis of Cohort Studies. *Arch Intern Med* 2004; 164(4): 370-376.

Rolandsson O, Marklund SL, Norberg M, Ågren Å, Hägg E. Hemoglobin A_{1c} can be analyzed in blood kept frozen at -80° C and is not commonly affected by hemolysis in the general population. *Metabolism* 2004; 53(11): 1496-1499.

Stattin P, Bylund A, Biessy C, Kaaks R, Hallmans G, Adlercreutz H. Prospective study of plasma enterolactone and prostate cancer risk (Sweden). *Cancer cause control* 2004; 15: 1095-1102.

Stattin P, Lumme S, Tenkanen L, Alfthan H, Jellum E, Hallmans G, Thoresen S, Hakulinen T, Luostarinen T, Lehtinen M, Dillner J, Stenman U-H, Hakama M. High levels of circulating testosterone are not associated with increased prostate cancer risk: a pooled prospective study. *Int J Cancer* 2004; 108(3): 418-424.

Stattin P, Soderberg S, Biessy C, Lenner P, Hallmans G, Kaaks R, Olsson T. Plasma leptin and breast cancer risk: a prospective study in northern sweden. *Breast Cancer Res Treat.* 2004; 86(3): 191-196.

Stattin P, Rinaldi S, Biessy C, Stenman U-H, Hallmans G, Kaaks R. High levels of circulating insulin-like growth factor-1 increase prostate cancer risk: A prospective study in a population-based nonscreened cohort. *J Clin Oncol* 2004; 22: 3104-3112.

Sundström P, Juto P, Wadell G, Hallmans G, Svenningsson A, Nyström L, Dillner J, Forsgren L. An altered immune response to Epstein-Barr virus in multiple sclerosis. A prospective study. *Neurology* 2004; 62: 2277-2282.

Söderberg S, Stegmayr B, Stenlund H, Sjöström L-G, Ågren Å, Johansson L, Weinehall L, Olsson T. Leptin, but not adiponectin, predicts stroke in males. *J Intern Med* 2004; 256: 128-136.

Thøgersen AM, Söderberg S, Jansson J-H, Dahlén G, Boman G, Nilsson TK, Lindahl B, Weinehall L, Stenlund H, Lundberg V, Johnson O, Åhrén B, Hallmans G. Interactions

between fibrinolysis, lipoproteins and leptin related to a first myocardial infarction. *Eur J Cardiovasc Prev Rehabil* 2004; 11(1): 33-40.

Tjonneland AM, Overvad K, Bingham SA, Day NE, Luben R, Ferrari P, Slimani N, Norat T, Clavel-Chapelon F, Kesse E, Nieters A, Boeing H, Martinez C, Dorronsoro M, Gonzalez CA, Key TJ, Trichopoulou A, Naska A, Vineis P, Tumino R, Krogh V, Bueno de Mesquita HB, Peeters PH, Berglund G, Hallmans G, Lund E, Skeie G, Kaaks R, Riboli E. Kostfibre beskytter mod kolorektal cancer blandt deltagerne i det faelleseuropaeiske. European Prospective Investigation into Cancer and Nutrition (EPIC)-studie. *Ugeskr Laeger*. 2004; 166(25): 2458-2460.

Tuohimaa P, Tenkanen L, Ahonen M, Lumme S, Jellum E, Hallmans G, Stattin P, Harvei S, Hakulinen T, Luostarinen T, Dillner J, Lehtinen M, Hakama M. Both high and low levels of blood vitamin D are associated with a higher prostate cancer risk: a longitudinal, nested case-control study in the Nordic countries. *Int J Cancer* 2004; 108(1): 104-108.

Warensjo E, Jansson JH, Berglund L, Boman K, Ahren B, Weinehall L, Lindahl B, Hallmans G, Vessby B. Estimated intake of milk fat is negatively associated with cardiovascular risk factors and does not increase the risk of a first acute myocardial infarction. A prospective case-control study. *Br J Nutr* 2004; 91(4): 635-642.

Chang E, Hedelin M, Adami H-O, Grönberg H, Bälter K. Re: Zinc supplement use and risk of prostate cancer. *J Natl Cancer Inst* 2004; 96(14): 1108; author reply 1108-1109.

Jonsson B-A, Adami H-O, Augustsson K, Bergh A, Göransson I, Stattin P, Wiklund F, Grönberg H. -160C/A polymorphism in the E-cadherin gene promoter and risk of hereditary, familial and sporadic prostate cancer. *Int J Cancer*. 2004; 109(3): 348-352.

Lindmark F, Jonsson BA, Bergh A, Stattin P, Zheng SL, Meyers DA, Xu J, Gronberg H. Analysis of the macrophage scavenger receptor 1 gene in Swedish hereditary and sporadic prostate cancer. *Prostate*. 2004; 59(2): 132-140.

Lindmark F, Zheng SL, Wiklund F, Bensen J, Augustsson Bälter K, Chang B, Hedelin M, Clark J, Stattin P, Meyers DA, Adami HO, Isaacs W, Grönberg H, Xu J. The H6D polymorphism in the Macrophage Inhibitory Cytokine Gene 1 (MIC-1) is associated with Prostate Cancer. *J Natl Cancer Inst* 2004; 96(16): 1248-1254.

Sun J, Hedelin M, Zheng SL, Adami H-O, Bensen J, Augustsson K, Chang B, Adams T, Adolfsson J, Turner AR, Meyers DA, Isaacs W, Xu J, Gronberg H. Interleukin 6 sequence variants are not associated with prostate cancer risk. *Cancer Epidemiol Biomarkers Prev* 2004; 13(10): 1677-1679.

Zheng SL, Augustsson-Balter K, Chang B, Hedelin M, Li L, Adami HO, Bensen J, Li G, Johnsson JE, Turner AR, Adams TS, Meyers DA, Isaacs WB, Xu J, Gronberg H. Sequence variants of toll-like receptor 4 are associated with prostate cancer risk: results from the Cancer Prostate in Sweden Study. *Cancer Res*. 2004; 64(8): 2918-2922.

Akhmedkhanov A, Lundin E, Guller S, Lukanova A, Micheli A, Ma Y, Afanasyeva Y, Zeleniuch-Jacquotte A, Krogh V, Lenner P, Muti P, Rinaldi S, Kaaks R, Berrino F, Hallmans

G, Toniolo P. Circulating soluble Fas levels and risk of ovarian cancer. *BMC Cancer*. 2003; 3(1): 33.

Arslan AA, Zeleniuch-Jacquotte A, Lundin E, Micheli A, Lukanova A, Afanasyeva Y, Lenner P, Krogh V, Muti P, Rinaldi S, Kaaks R, Berrino F, Hallmans G, Toniolo P. Serum follicle-stimulating hormone and risk of epithelial ovarian cancer in postmenopausal women. *Cancer Epidemiol Biomarkers Prev* 2003; 12(12): 1531-1535.

Asplund K, Nasic S, Janlert U, Stegmayr B. Smokeless tobacco as a possible risk factor for stroke. A nested case-control study. *Stroke* 2003; 34: 1754-1759.

Bingham SA, Day NE, Luben R, Ferrari P, Slimani N, Norat T, Clavel-Chapelon F, Kesse E, Nieters A, Boeing H, Tjonneland A, Overvad K, Martinez C, Dorronsoro M, Gonzalez CA, Key TJ, Trichopoulou A, Naska A, Vineis P, Tumino R, Krogh V, Bueno de Mesquita HB, Peeters PH, Berglund G, Hallmans G, Lund E, Skeie G, Kaaks R & Riboli E. Dietary fibre in food and protection against colorectal cancer in the European Prospective Investigation into Cancer and Nutrition (EPIC): an observational study. *Lancet* 2003; 361(9368): 1496-1501.

Eliasson M, Jansson J-H, Lindahl B, Stegmayr B. High levels of tissue plasminogen activator (tPA) antigen precede the development of type 2 diabetes in a longitudinal population study. The Northern Sweden MONICA Study. *Cardiovasc Diabetol*. 2003; 2:19.

Emmelin M, Weinehall L, Stegmayr B, Dahlgren L, Stenlund H, Wall S. Self-rated ill-health strengthens the impact of bio-medical risk factor load in predicting stroke, especially for men. An incident case-referent study. *J Hypertension* 2003; 1: 887-896.

Gonzalez CA, Pera G, Agudo A, Palli D, Krogh V, Vineis P, Tumino R, Panico S, Berglund G, Siman H, Nyren O, Agren A, Martinez C, Dorronsoro M, Barricarte A, Tormo MJ, Quiros JR, Allen N, Bingham S, Day N, Miller A, Nagel G, Boeing H, Overvad K, Tjonneland A, Bueno de Mesquita HB, Boshuizen HC, Peeters P, Numans M, Clavel-Chapelon F, Helen I, Agapitos E, Lund E, Fahey M, Saracci R, Kaaks R & Riboli E. Smoking and the risk of gastric cancer in the European prospective investigation into cancer and nutrition (EPIC). *Int J Cancer* 2003; 107: 629-634.

Hallmans G, Ågren Å, Johansson G, Johansson A, Stegmayr B, Jansson JH, Lindahl B, Rolandsson O, Söderberg S, Nilsson M, Johansson I, Weinehall L. Cardiovascular disease and diabetes in the Northern Sweden Health and Disease Study Cohort – evaluation of risk factors and their interactions. *Scand J Public Health* 2003; 31(Suppl 61): 18-24.

Kaaks R, Lukanova A, Rinaldi S, Biessy C, Soderberg S, Olsson T, Stenman U-H, Riboli E, Hallmans G, Stattin P. Interrelationships between plasma testosterone, SHBG, IGF-I, insulin and leptin in prostate cancer cases and controls. *Eur J Cancer Prev*. 2003; 12(4): 309-315.

Lindahl B, Stegmayr B, Johansson I, Weinehall L, Hallmans G. Trends in lifestyle 1986-99 in a 25- to 64-year-old population of the Northern Sweden MONICA project. *Scand J Public Health*. 2003; 31(Suppl 61): 31-37.

Lukanova A, Lundin E, Micheli A, Akhmedkhanov A, Rinaldi S, Muti P, Lenner P, Biessy C, Krogh V, Riboli E, Hallmans G, Berrino F, Zeleniuch-Jacquotte A, Toniolo P & Kaaks R. Risk of ovarian cancer in relation to prediagnostic levels of C-peptide, insulin-like growth

factor binding proteins-1 and -2 (USA, Sweden, Italy). *Cancer Cause Control* 2003; 14(3): 285-292.

Lukanova A, Lundin E, Akhmedkhanov A, Micheli A, Rinaldi S, Zeleniuch-Jacquotte A, Lenner P, Muti P, Biessy C, Krogh V, Berrino F, Hallmans G, Riboli E, Kaaks R, Toniolo P. Circulating levels of sex steroid hormones and risk of ovarian cancer. *Int J Cancer* 2003; 104(5): 636-642.

Palmqvist R, Engaras B, Lindmark G, Hallmans G, Tavelin B, Nilsson O, Hammarstrom S, Hafstrom L. Prediagnostic Levels of Carcinoembryonic Antigen and CA 242 in Colorectal Cancer: A Matched Case-Control Study. *Dis Colon Rectum*. 2003; 46(11): 1538-1544.

Palmqvist R, Stattin P, Rinaldi S, Biessy C, Stenling R, Riboli E, Hallmans G, Kaaks R. Plasma insulin, IGF-binding proteins-1 and -2 and risk of colorectal cancer: a prospective study in northern Sweden. *Int J Cancer*. 2003; 107(1): 89-93.

Rantapää-Dahlqvist S, de Jong BAW, Berglin E, Hallmans G, Wadell G, Stenlund H, Sundin U, van Venrooij WJ. Antibodies against cyclic citrullinated peptide and IgA rheumatoid factor predict the development of rheumatoid arthritis. *Arthritis Rheum* 2003; 48(10): 2741-2749.

Rolandsson O, Hagg E, Janer M, Rutledge E, Gaur LK, Nilsson M, Hallmans G, Lernmark A. High GAD65 autoantibody levels in nondiabetic adults are associated with HLA but not with CTLA-4 or INS VNTR. *J Intern Med* 2003; 253(4): 447-453.

Soderberg S, Stegmayr B, Ahlbeck-Glader C, Slunga-Birgander L, Ahren B, Olsson T. High leptin levels are associated with stroke. *Cerebrovasc Dis* 2003; 15(1-2): 63-69.

Stattin P, Palmqvist R, Soderberg S, Biessy C, Ardnor B, Hallmans G, Kaaks R, Olsson T. Plasma leptin and colorectal cancer risk: a prospective study in Northern Sweden. *Oncol Rep* 2003; 10(6): 2015-2021.

Mörner S, Richard P, Kazzam E, Hellman U, Hainque B, Schwartz K, Waldenström A. Identification of the genotypes causing familial hypertrophic cardiomyopathy in northern Sweden. *J Mol Cell Cardiol* 2003; 35: 841-849.

Agudo A, Slimani N, Ocké MC, A Naska, Miller AB, Kroke A, C Bamia, D Karalis, Vineis P, Palli D, Bueno de Mesquita HB, Peeters PHM, Engeset D, Hjartåker A, Navarro C, Martínez Garcia C, Wallström P, Zhang JX, Welch AA, Spencer E, Stripp C, Overvad K, Clavel-Chapelon F, Casagrande C and Riboli E. Consumption of vegetables, fruit and other plant foods in the European Prospective Investigation into Cancer and Nutrition (EPIC) cohorts from 10 European countries. *Pub Health Nutr* 2002; 5(6B): 1179-1196.

Ferrari P, Slimani N, Ciampi A, Trichopoulou A, Naska A, Lauria C, Veglia F, Bueno de Mesquita HB, Ocké MC, Brustad M, Braaten T, José Tormo M, Amiano P, Mattisson I, Johansson G, Welch A, Davey G, Overvad K, Tjønneland A, Clavel-Chapelon F, Thiebaut A, Linseisen J, Boeing H, Hemon B and Riboli E. Evaluation of under- and overreporting of energy intake in the 24-hour diet recalls in the European Prospective Investigation into Cancer and Nutrition (EPIC). *Pub Health Nutr* 2002; 5(6B): 1329-1333.

Ghaderi M, Wallin KL, Wiklund F, Zake LN, Hallmans G, Lenner P, Dillner J, Sanjeevi CB. Risk of invasive cervical cancer associated with polymorphic HLA DR/DQ haplotypes. *Int J Cancer* 2002; 100(6): 698-701.

Haftenberger M, Lahmann PH, Panico S, Gonzalez CA, Seidell JC, Boeing H, Guirdanella MC, Krogh V, Bueno de Mesquita HB, Peeters PHM, Skeie G, Hjartåker A, Rodriguez M, Quirós JR, Berglund G, Janlert U, Khaw KT, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Tehard B, Miller AB, Klipstein-Grobusch K, Benetou V, Kiriazi G, Riboli E and Slimani N. Overweight, obesity and fat distribution in 50- to 64-year-old participants in the European Prospective Investigation into Cancer and Nutrition (EPIC). *Pub Health Nutr* 2002; 5(6B): 1147-1162.

Haftenberger M, Schuit AJ, Tormo MJ, Boeing H, Wareham N, Bueno de Mesquita HB, Kumle M, Hjartåker A, Chirlaque MD, Ardanaz E, Andren C, Lindahl B, Peeters PHM, Allen NE, Overvad K, Tjønneland A, Clavel-Chapelon F, Linseisen J, Bergmann MM, Trichopoulou A, Lagiou P, Salvini S, Panico S, Riboli E, Ferrari P and Slimani N. Physical activity of subjects aged 50–64 years involved in the European Prospective Investigation into Cancer and Nutrition (EPIC). *Pub Health Nutr* 2002; 5(6B): 1163-1178.

Hjartåker A, Lagiou A, Slimani N, Lund E, Chirlaque MD, Vasilopoulou E, Zavitsanos X, Berrino F, Sacerdote C, Ocké MC, Peeters PHM, Engeset D, Skeie G, Aller A, Amiano P, Berglund G, Nilsson S, McTaggart A, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Linseisen J, Schulz M, Hemon B and Riboli E. Consumption of dairy products in the European Prospective Investigation into Cancer and Nutrition (EPIC) cohort: data from 35 955 24-hour dietary recalls in 10 European countries. *Pub Health Nutr* 2002; 5(6B): 1259-1271.

Hulten K, Winkvist A, Lenner P, Johansson R, Adlercreutz H, Hallmans G. An incident case-referent study on plasma enterolactone and breast cancer risk. *Eur J Nutr* 2002; 41(4): 168-176.

Johansson I, Hallmans G, Wikman A, Biessy C, Riboli E, Kaaks R. Validation and calibration of food-frequency questionnaire measurements in the Northern Sweden Health and Disease cohort. *Public Health Nutr* 2002; 5(3): 487-496.

Johansson L, Jansson JH, Boman K, Nilsson TK, Stegmayr B, Hallmans G. Prospective study on soluble thrombomodulin and von Willebrand factor and the risk of ischemic and hemorrhagic stroke. *Thromb Haemost.* 2002; 87(2): 211-217.

Kaaks R, Lundin E, Rinaldi S, Manjer J, Biessy C, Soderberg S, Lenner P, Janzon L, Riboli E, Berglund G, Hallmans G. Prospective study of IGF-I, IGF-binding proteins, and breast cancer risk, in northern and southern Sweden. *Cancer Causes Control* 2002; 13(4): 307-316.

Keinen-Boker L, Peeters PHM, AMulligan A, Navarro C, Slimani N, Mattison I, Lundin E, McTaggart A, Allen NE, Overvad K, Tjønneland, Clavel-Chapelon F, Linseisen J, Haftenberger M, Lagiou P, Kalapothaki V, Evangelista A, Frasca G, Bueno de Mesquita HB, Van der Schouw YT, Engeset D, Skeie G, Tormo MJ, Ardanaz E, Charrondière UR and Riboli E. Soy product consumption in 10 European countries: the European Prospective Investigation into Cancer and Nutrition (EPIC) study. *Pub Health Nutr* 2002; 5(6B): 1217-1226.

Klipstein-Grobusch K, Slimani N, Krogh V, Keil U, Boeing H, Overvad K, Tjønneland A, Clavel-Chapelon F, Thiébaud A, Linseisen J, Schulze MB, Lagiou P, Papadimitrou A, Saieva C, Veglia F, Bueno de Mesquita HB, Peeters PHM, Kumle M, Brustad M, Martinez Garcia C, Barricarte A, Berglund G, Weineball L, Mulligan A, Allen N, Ferrari P and Riboli E. Trends in self-reported past alcoholic beverage consumption and ethanol intake from 1950 to 1995 observed in eight European countries participating in the European Investigation into Cancer and Nutrition (EPIC). *Pub Health Nutr* 2002; 5(6B): 1297-1310.

Lehtinen M, Koskela P, Jellum E, Bloigu A, Anttila T, Hallmans G, Luukkaala T, Thoresen S, Youngman L, Dillner J, Hakama M. Herpes simplex virus and risk of cervical cancer: A longitudinal, nested case-control study in the Nordic countries. *Am J Epidemiol* 2002; 156(8): 687-692.

Linseisen J, Bergström E, Gafá L, González CA, Thiébaud A, Trichopoulou A, Tumino R, Navarro C Sánchez, Martinez Garcia C, Mattison I, Nilsson S, Welch A, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Kesse E, Miller AB, Schulz M, Botsi K, Naska A, Sieri S, Sacerdote C, Ocké MC, Peeters PHM, Skeie G, Engeset D, Charrondière UR and Slimani N. Consumption of added fats and oils in the European Prospective Investigation into Cancer and Nutrition (EPIC) centres across 10 European countries as assessed by 24-hour dietary recalls. *Pub Health Nutr* 2002; 5(6B): 1227-1242.

Linseisen J, Kesse E, Slimani N, Bueno de Mesquita HB, Ocké MC, Skeie G, Kumle M, Dorronsoro Iraeta M, Morote Gómez P, Janson L, Stattin P, Welch AA, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Miller AB, Klipstein-Grobusch K, Lagiou P, Kalapothaki V, Masala G, Giurdanella MC, Norat T and Riboli E. Meat consumption in the European Prospective Investigation into Cancer and Nutrition (EPIC) cohorts: results from 24-hour dietary recalls. *Pub Health Nutr* 2002; 5(6B): 1243-1258.

Lukanova A, Lundin E, Toniolo P, Micheli A, Akhmedkhanov A, Rinaldi S, Muti P, Lenner P, Biessy C, Krogh V, Zeleniuch-Jacquotte A, Berrino F, Hallmans G, Riboli E, Kaaks R. Circulating levels of insulin-like growth factor-I and risk of ovarian cancer. *Int J Cancer* 2002; 101(6): 549-554.

Lukanova A, Soderberg S, Stattin P, Palmqvist R, Lundin E, Biessy C, Rinaldi S, Riboli E, Hallmans G, Kaaks R. Nonlinear relationship of insulin-like growth factor (IGF)-I and IGF-I/IGF-binding protein-3 ratio with indices of adiposity and plasma insulin concentrations (Sweden). *Cancer Cause Control* 2002; 13(6): 509-516.

Lukanova A, Toniolo P, Lundin E, Micheli A, Akhmedkhanov A, Muti P, Zeleniuch-Jacquotte A, Biessy C, Lenner P, Krogh V, Berrino F, Hallmans G, Riboli E, Kaaks R. Body mass index in relation to ovarian cancer: a multi-centre nested case-control study. *Int J Cancer* 2002; 99(4): 603-608.

Palmqvist R, Hallmans G, Rinaldi S, Biessy C, Stenling R, Riboli E, Kaaks R. Plasma insulin-like growth factor 1, insulin-like growth factor binding protein 3, and risk of colorectal cancer: a prospective study in northern Sweden. *Gut* 2002; 50(5): 642-646.

Riboli E, Hunt KJ, Slimani N, Ferrari P, Norat T, Fahey M, Charrondière UR, Hémon B, Casagrande C, Vignat J, Overvad K, Tjønneland A, Clavel-Chapelon F, Thiébaud A, Wahrendorf J, Boeing H, Trichopoulos D, Trichopoulou A, Vineis P, Palli D, Bueno de

Mesquita HB, Peeters PHM, Lundin E, Engeset D, González CA, Barricarte A, Berglund G, Hallmans G, Day NE, Key TJ, Kaaks R and Saracci R. European Prospective Investigation into Cancer and Nutrition (EPIC): study populations and data collection. *Pub Health Nutr* 2002; 5(6B): 1113-1124.

Saadatian-Elahi M, Norat T, Bueno de Mesquita HB, Clavel F, Gonzalez CA, Hallmans G, Key TJ, Krogh V, Miller AB, Tjønneland A, Trichopoulou A, Riboli E. Plasma concentrations of fatty acids in nine European countries: cross-sectional study within the European Prospective Investigation into Cancer and Nutrition (EPIC). *IARC Sci Publ* 2002; 156: 215-218.

Sieri S, Agudo A, Kesse E, Klipstein-Grobusch K, San-José B, Welch AA, Krogh V, Luben R, Allen N, Overvad K, Tjønneland A, Clavel-Chapelon F, Thiébaud A, Miller AB, Boeing H, Kolyva M, Saieva C, Celentano E, Ocké MC, Peeters PHM, Brustad M, Kumle M, Dorronsoro M, Fernandez Feito A, Mattison I, Weinball L, Riboli E and Slimani N. Patterns of alcohol consumption in 10 European countries participating in the European Prospective Investigation into Cancer and Nutrition (EPIC) project. *Pub Health Nutr* 2002; 5(6B): 1287-1296.

Slimani N, Kaaks R, Ferrari P, Casagrande C, Clavel-Chapelon F, Lotze G, Kroke A, Trichopoulos D, Trichopoulou A, Lauria C, Bellegotti M, Ocké MC, Peeters PHM, Engeset D, Lundin E, Agudo A, Larrañaga N, Mattisson I, Andren C, Johansson I, Davey G, Welch AA, Overvad K, Tjønneland A, Van Staveren WA, Saracci R and Riboli E. European Prospective Investigation into Cancer and Nutrition (EPIC) calibration study: rationale, design and population characteristics. *Pub Health Nutr* 2002; 5(6B): 1125-1146.

Slimani N, Fabey M, Welch AA, Wirfält F, Stripp C, Bergström E, Linseisen J, Schulz MB, Bamia C, Chloptsios Y, Veglia F, Panico S, Bueno de Mesquita HB, Ocké MC, Brustad M, Lundin E, González CA, Barcos A, Berglund G, Winkvist A, Mulligan A, Appleby P, Overvad K, Tjønneland A, Clavel-Chapelon F, Kesse E, Ferrari P, van Staveren WA and Riboli E. Diversity of dietary patterns observed in the European Prospective Investigation into Cancer and Nutrition (EPIC) project. *Pub Health Nutr* 2002; 5(6B): 1311-1328.

Stattin P, Adlercreutz H, Tenkanen L, Jellum E, Lumme S, Hallmans G, Harvei S, Teppo L, Stumpf K, Luostarinen T, Lehtinen M, Dillner J, Hakama M. Circulating enterolactone and prostate cancer risk: a Nordic nested case-control study. *Int J Cancer* 2002; 99(1): 124-129.

Wallin KL, Wiklund F, Luostarinen T, Angstrom T, Anttila T, Bergman F, Hallmans G, Ikaheimo I, Koskela P, Lehtinen M, Stendahl U, Paavonen J, Dillner J. A population-based prospective study of Chlamydia trachomatis infection and cervical carcinoma. *Int J Cancer* 2002; 101(4): 371-374.

Weinehall L, Ohgren B, Persson M, Stegmayr B, Boman K, Hallmans G, Lindholm LH. High remaining risk in poorly treated hypertension: the 'rule of halves' still exists. *J Hypertension* 2002; 20(10): 2081-2088.

Welch AA, Lundin E, Amiano P, Dorronsoro M, Brustad M, Kumle M, Rodriguez M, Lasheras C, Janzon L, Jansson J, Luben R, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, J Linseisen, Klipstein-Grobusch K, Benetou V, Zavitsanos X, Tumino R, Galasso R, Bueno de Mesquita HB, Ocké MC, Charrondiére UR and Slimani N. Variability of fish

consumption within the 10 European Countries participating in the European Investigation into Cancer and Nutrition (EPIC) study. *Pub Health Nutr* 2002; 5(6B): 1273-1286.

Wirfält E, McTaggart A, Pala V, Gullberg B, Frasca G, Panico S, Bueno de Mesquita HB, Peeters PHM, Engeset D, Skeie G, Chirlaque MD, Amiano P, Lundin E, Mulligan A, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Linseisen J, Nöthlings U, Polychronopoulos E, Georga K, Charrondière UR and Slimani N. Food sources of carbohydrates in a European cohort of adults. *Pub Health Nutr* 2002; 5(6B): 1197-1216.

Ulf de Faire, WP 4.2 reports the following publications:

Beekman M, Heijmans BT, Martin NG, Whitfield JB, Pedersen NL, de Faire U, Snieder H, Lakenberg N, Suchiman HE, de Knijff P, Frants RR, van Ommen GJ, Klufft C, Vogler GP, Boomsma DI and Slagboom PE. Evidence for a QTL on chromosome 19 influencing LDL cholesterol levels in the gene population. *Eur J Hum Genet* 2003; 11: 845-50.

Beekman M, Heijmans BT, Martin NG, Whitfield JB, Pedersen NL, de Faire U, Snieder H, Lakenberg N, de Knijff P, Frants RR, van Ommen GJ, Klufft C, Vogler GP, Slagboom PE and Boomsma DI. Two-locus linkage analysis applied to putative quantitative trait loci for lipoprotein(a) levels. *Twin Res* 2003; 6: 322-4.

Bennet AM, Prince JA, Fei GZ, Lyrenas L, Huang Y, Wiman B, Frostegard J and de Faire U. Interleukin-6 serum levels and genotypes influence the risk for myocardial infarction. *Atherosclerosis* 2003; 171: 359-67.

Finkel D, Pedersen NL, Reynolds CA, Berg S, de Faire U and Svartengren M. Genetic and environmental influences on decline in behavioral markers of aging. *Behav Genet* 2003; 33: 107-23.

Kehoe PG, Katzov H, Feuk L, Bennet AM, Johansson B, Wiman B, de Faire U, Cairns NJ, Wilcock GK, Brookes AJ, Blennow K and Prince JA. Haplotypes extending across ACE are associated with Alzheimer's disease. *Hum Mol Genet* 2003; 12: 859-67.

Leander K, Wiman B, Hallqvist J, Sten-Linder M, de Faire U; Stockholm Heart Epidemiology Program. PAI-1 level and the PAI-1 4G/5G polymorphism in relation to risk of non-fatal myocardial infarction: results from the Stockholm Heart Epidemiology Program (SHEEP). *Thromb Haemost* 2003; 89:1064-71.

Lindgren P, Fahlstadius P, Hellenius ML, Jonsson B, de Faire U. Cost-effectiveness of primary prevention of coronary heart disease through risk factor intervention in 60-year-old men from the county of Stockholm-a stochastic model of exercise and dietary advice. *Prev Med* 2003;36:403-409.

Litton JE, Muilu J, Bjorklund A, Leinonen A and Pedersen NL. Data modeling and data communication in GenomeEUtwin. *Twin Res* 2003; 6: 383-90.

Rosell MS, Hellenius ML, de Faire UH, Johansson GK. Associations between diet and the metabolic syndrome vary with the validity of dietary intake data. *Am J Clin Nutr* 2003;78:84-90.

Rosell M, de Faire U, Hellenius ML.

Low prevalence of the metabolic syndrome in wine drinkers - is it the alcohol beverage or the lifestyle?

Eur J Clin Nutr 2003;57:227-234.

Yasar U, Bennet AM, Eliasson E, Lundgren S, Wiman B, de Faire U and Rane A. Allelic variants of cytochromes P450 2C modify the risk for acute myocardial infarction.

Pharmacogenetics 2003; 13: 715-20.

Lichtenstein P, de Faire U, Floderus B, Svartengren M, Svedberg P and Pedersen NL. The Swedish Twin Registry: a unique resource for clinical, epidemiological and genetic studies. J Intern Med 2002; 252: 184-205.

Zdravkovic S, Wienke A, Pedersen NL, Marenberg ME, Yashin AI and de Faire U.

Heritability of death from coronary heart disease: a 36-year follow-up of 20 966 Swedish twins. J Intern Med 2002; 252: 247-254.

Göran Berglund, WP 4.3 reports the following publications (Malmö Diet and Cancer):

Leosdottir M, Nilsson P, Nilsson J-Å, Månsson H, Berglund G: The association between total energy intake and early mortality: data from the Malmö Diet and Cancer Study. J Int Med 2004;256:499-509.

Nordin Fredrikson G, Hedblad B, Nilsson J-Å, Alm R, Berglund G, Nilsson J: Association between diet, lifestyle, metabolic cardiovascular risk factors, and plasma C-reactive protein levels. Metabolism 2004;53:1436-42.

Key TJ, Allen N, Appleby P, Overvad K, Tjønneland A, Miller A, Boeing H, Karalis D, Psaltopoulou T, Berrino F, Palli D, Panico S, Tumino R, Vineis P, Bueno-de-Mesquita HB, Kiemeny L, Peeters PHM, Martinez C, Dorronsoro M, González CA, Chirlaque MD, Quiros JR, Ardanaz E, Berglund G, Egevad L, Hallmans G, Stattin P, Bingham S, Day N, Gann P, Kaaks R, Ferrari P, Riboli E: Fruits and vegetables and prostate cancer: no association among 1.104 cases in a prospective study of 130.544 men in the European prospective investigation into cancer and nutrition (EPIC). Int J Cancer 2004;109:119-124.

Mattisson I, Wirfält E, Johansson U, Gullberg B, Olsson H, Berglund G. Intakes of plant foods, fibre and fat and risk of breast cancer – a prospective study in the Malmö Diet and Cancer cohort. Br J Cancer 2004;90:122-7.

Gonzalez CA, Pera G, Agudo A, Palli D, Krogh V, Vineis P, Tumino R, Panico S, Berglund G, Siman H, Nyrén O, Agren A, Martinez C, Dorronsoro M, Barricarte A, Tormo MJ, Quiros JR, Allen N, Bingham S, Day N, Miller A, Nagel G, Boeing H, Overvad K, Tjønneland A, Bueno-de-Masquita HB, Boshuizen HC, Peeters P, Numans M, Clavel-Chapelon F, Helen I, Agapitos E, Lund E, Fahey M, Saracci R, Kaaks R, Roboli E. Smoking and the risk of gastric cancer in the European prospective investigation into cancer and nutrition (EPIC). Int J Cancer 2003;107:629-34.

Mattisson I, Wirfält E, Andrén C, Gullberg B, Berglund G. Dietary fat intake – food sources and dietary correlates in the Malmö Diet and Cancer cohort. Publ Health Nutr 2003;6:559-69.

Nordin Fredrikson G, Hedblad B, Berglund G, Alm R, Ares M, Cercek B, Chyu K-Y, Shah PK, Nilsson J. Identification of immune responses against aldehyde-modified peptide sequences in ApoB associated with cardiovascular disease. *Arterioscler Thromb Vasc Biol* 2003;23:872-8.

Bingham SA, Day NE, Luben R, Ferrari P, Slimani N, Norat T, Clavel-Chapelon F, Kesse E, Nieters A, Boeing H, Tjønneland A, Overvad K, Martinez C, Dorronsoro M, Gonzalez CA, Key TJ, Trichopoulou A, Naska A, Vineis P, Tumino R, Krogh V, Bueno-de-Mesquita HB, Peeters PHM, Berglund G, Hallmans G, Lund E, Skeie G, Kaaks R, Riboli E: Dietary fibre in food and protection against colorectal cancer in the European Prospective Investigation into Cancer and Nutrition (EPIC): and observational study. *Lancet* 2003;361:1496-501.

Nordin Fredrikson G, Hedblad B, Berglund G, Nilsson J. Plasma oxidized LDL: a predictor for acute myocardial infarction? *J Intern Med* 2003;253:425-0.

Wallström P, Wirfält E, Mattisson I, Gullberg B, Janzon L, Berglund G. Serum β -caroten and α -tocopherol in smokers and non-smokers – associations with food sources and supplemental intakes. A report from the Malmö Diet and Cancer cohort. *Nutrition Research* 2003;23:163-83.

Hjartåker A, Lagiou A, Slimani N, Lund E, Chirlaque MD, Vasilopoulou E, Zavitsanos X, Berrino F, Sacerdote C, Ocké MC, Peeters PHM, Engeset D, Skeie G, Aller A, Amiano P, Berglund G, Nilsson S, McTaggart A, Spencer EA, Overvad K, Tjønneland A, Clavel-Chapelon F, Linseisen J, Schulz M, Hemon B, Riboli E. Consumption of dairy products in the European Prospective Investigation into Cancer and Nutrition (EPIC) cohort: data from 35955 24-hour dietary recalls in 10 European countries. *Publ Health Nutr* 2002;5(6B):1259-71.

Lahmann PH, Lissner L, Gullberg B, Olsson H, Berglund G. A prospective study of adiposity and postmenopausal breast cancer risk: The Malmö diet and cancer study. *Int J Cancer* 2003;103:246-252.

Klipstein-Grobusch K, Slimani N, Krogh V, Keil U, Boeing H, Overvad K, Tjønneland A, Clavel-Chapelon F, Thiébaud A, Linseisen J, Schulze MB, Lagiou P, Papadimitrou A, Saieva C, Veglia F, Bueno-de-Mesquita HB, Peeters PHM, Kumle M, Brustad M, Martínez Garcia C, Barricarte A, Berglund G, Weinehall L, Mulligan A, Allen N, Ferrari P, Riboli E. Trends of self-reported past alcoholic beverage consumption and ethanol intake from 1950 to 1995 observed in eight European countries participating in the European Investigation into Cancer and Nutrition (EPIC). *Publ Health Nutr* 2002;5(6B):1297-310.

Wirfält E, Mattison I, Johansson U, Gullberg B, Wallström P, Berglund G. A methodological report from the Malmö Diet and Cancer study: development and evaluation of altered routines in dietary data processing. *Nutrition J.* 2002;1:3.

Rosvall M, Östergren P-O, Hedblad B, Isacson S-O, Janzon L, Berglund G. Life-course perspective on socioeconomic differences in carotid atherosclerosis. *Arterioscler Thromb Vasc Biol* 2002;22:1704-11.

Haftenberger M, Lahmann P, Panico S, Gonzalez CA, Seidell JC, Boeing H, Giurdanella MC, Krogh V, Bueno-de-Mesquita HB, Peeters PHM, Skeie G, Hartåker A, Rodriguez M, Quirós JR, Berglund G, Janlert U, Khaw KT, Spencer EA, Overvad K, Tjønneland A, Clavel-

Chapelon F, Tehard B, Miller AB, Klipstein-Grobusch K, Benetou V, Kiriazi G, Riboli E, Slimani N. Overweight, obesity and fat distribution in 50- to 64-year-old participants in the European Prospective Investigation into Cancer and Nutrition (EPIC). *Publ Health Nutr* 2002;5(6B):1147-62.

Wirfält E, Mattisson I, Gullberg B, Johansson U, Olsson H, Berglund G. Post-menopausal breast cancer is associated with high intakes of ω 6-fatty acids. *Cancer Causes and Controls* 2002;13:883-93.

Manjer J, Elmståhl S, Janzon L, Berglund G. Invitation to a population-based cohort study: differences between subjects recruited using various strategies. *Scand J Public Health* 2002;30:103-12.

Hedblad B, Nilsson P, Engström G, Berglund G, Janzon L. Insulin resistance in non-diabetic subjects is associated with increased incidence of myocardial infarction and death. *Diabet Med* 2002;19:470-5.

Lahmann P, Lissner L, Gullberg B, Berglund G. A prospective study of adiposity and all-cause mortality: The Malmö Diet and Cancer Study. *Obesity Res* 2002;10:361-9.

Hedblad B, Merlo J, Manjer J, Engström G, Berglund G, Janzon L. Incidence of cardiovascular disease, cancer and death in postmenopausal women affirming use of hormone replacement therapy. *Scand J Publ Health* 2002;30:12-9.

Göran Berglund, WP 4.3 reports the following publications (Malmö Preventive Project):

Nilsson PM, Nilsson J-Å, Östergren P-O, Berglund G: Social mobility, marital status, and mortality risk in an adult life course perspective: The Malmö Preventive Project. *Scand J Publ Health* 2005;00:1-12.

Öhlin B, Nilsson PM, Nilsson J-Å, Berglund G: Chronic psychosocial stress predicts long-term cardiovascular morbidity and mortality in middle-aged men. *Europ Heart J* 2004;25:867-73.

Nilsson PM, Nilsson J-Å, Berglund G: Family burden of cardiovascular mortality: risk implications for offspring in a national register linkage study based upon the Malmö Preventive Project. *J Intern Med* 2004;255:229-35.

Janzon E, Hedblad B, Berglund G, Engström G: Changes in blood pressure and body weight following smoking cessation in women. *J Int Med* 2004;255:266-72.

Gottsäter A, Rydén-Ahlgren Å, Szelagt B, Hedblad B, Persson J, Berglund G, Wroblewski M, Sundkvist G. Cardiovascular autonomic neuropathy associated with carotid atherosclerosis in Type 2 diabetic patients. *Diabet Med* 2003;20:495-9.

Nilsson P, Nilsson J-Å, Hedblad B, Eriksson K-F, Berglund G. Hyperinsulinaemia as long-term predictor of death and ischaemic heart disease in nondiabetic men: The Malmö Preventive Project. *J Intern Med* 2003;253:136-45.

Hedblad B, Jonsson S, Nilsson P, Engström G, Berglund G, Jansson L. Obesity and myocardial infarction – vulnerability related to occupational level and marital status. A 23-year follow-up of an urban male Swedish population. *J Intern Med* 2002;252:542-50.

Khalili P, Nilsson P M, Nilsson J-Å, Berglund G. Smoking as a modifier of the systolic blood pressure-induced risk of cardiovascular events and mortality: a population-based prospective study of middle-aged men. *J Hypertens* 2002;20:1759-64.

Jonsson S, Hedblad B, Engström G, Nilsson P, Berglund G, Jansson L. Influence of obesity on cardiovascular risk. Twenty-three-year follow-up of 22025 men from an urban Swedish population. *Internat J Obesity* 2002;26:1046-53.

Nilsson PM, Nilsson J-Å, Hedblad B, Berglund G, Lingärde F. The enigma of increased non-cancer mortality after weight loss in healthy men who are overweight or obese. *J Intern Med* 2002;252:70-8.

Norinder A, Persson U, Nilsson P, Nilsson J-Å, Hedblad B, Berglund G. Costs for screening, intervention and hospital treatment generated by the Malmö Preventive Project: a large-scale community screening programme. *J Intern Med* 2002;251:44-52.

Simán JH, Forsgren A, Berglund G, Florén C-H. Helicobacter pylori infection is associated with a decreased risk of developing oesophageal neoplasms. *Helicobacter* 2001;6:310-6.

Joyce Carlson, WP 4.5 reports the following publications:

Sjoholm MI, Hoffmann G, Lindgren S, Dillner J, Carlson J.
Comparison of archival plasma and formalin-fixed paraffin-embedded tissue for genotyping in hepatocellular carcinoma.
Cancer Epidemiology, Biomarkers & Prevention. 14. 251-255. 2005.

Johan Botling, WP 5.1 reports the following publications:

Botling J, Tahmasebpoor S, Ohsihima M, Östman A, Ponten F, Micke P.
Stable RNA in Fresh Surgical Specimens Transported on Ice.
Submitted.

Micke P, Bjornsen T, Scheidl S, Stromberg S, Demoulin JB, Ponten F, Ostman A, Lindahl P, Busch C.
A fluid cover medium provides superior morphology and preserves RNA integrity in tissue sections for laser microdissection and pressure catapulting.
J. Pathol. (2004) 202: 130-138.

Backvall H, Stromberg S, Gustafsson A, Asplund A, Sivertsson A, Lundeberg J, Ponten F.
Mutation spectra of epidermal p53 clones adjacent to basal cell carcinoma and squamous cell carcinoma.
Exp. Dermatol. (2004) 13: 643-650.

Wester K, Asplund A, Bäckvall H, Micke P, Derveniece A, Hartmane I, Malmström PU, Ponten F.

Zinc-based fixative improves preservation of genomic DNA and proteins in histoprocessing of human tissues.

Lab. Invest. (2003) 83: 889-899.

Tobin G, Thunberg U, Johnson A, Thörn I, Söderberg O, Hultdin M, Botling J, Enblad G, Sällström J, Sundström C, Roos G, Rosenquist R.

Somatically mutated Ig V(H)3-21 genes characterize a new subset of chronic lymphocytic leukemia.

Blood (2002) 99:2262-2264.

Thunberg U, Tobin G, Johnson A, Söderberg O, Padyukov L, Hultdin M, Klareskog L, Enblad G, Sundström C, Roos G, Rosenquist R.

Polymorphism in the P2X7 receptor gene and survival in chronic lymphocytic leukemia.

Lancet (2002) 360: 1898-1899.

Göran Landberg, WP 5.3 reports the following publications:

Dejmek J, Leandersson K, Manjer J, Bjartell A, Emdin SO, Vogel WF, Landberg G.

Andersson T. Expression and signaling activity of Wnt-5a/discoidin domain receptor-1 and Syk plays distinct but decisive roles in breast cancer patient survival. Clin Cancer Res 11: 520-528, 2005.

Stendahl M, Kronblad Å, Rydén L, Emdin S, Bengtsson NO, Landberg G. Cyclin D1 overexpression is a negative predictive factor for tamoxifen response in postmenopausal breast cancer patients. British J Cancer 90: 1942-1948, 2004.

Hedberg Y, Ljungberg B, Roos G, Landberg G. Retinoblastoma protein in human renal cell carcinoma in relation to alterations in G1/S regulatory proteins. International J Cancer 109: 189-193, 2004.

Bladh J, Landberg G, Persson J. Regulation of the cyclin A1 protein is associated with its differential subcellular localization in hematopoietic and leukemic cells. Submitted, 2003.

Helczynska K, Kronblad Å, Jöghi A, Landberg G, Pahlman S. Hypoxia induces dedifferentiation in ductal carcinoma in situ carcinoma of the breast. Cancer Research April 1; 63 (7): 1441-1444, 2003.

Burger AM, Grugel R, Landberg G, Kitching R, Seth A. The breast cancer-associated gene Di12 has oncogenic activity. Anticancer Res 23: 2027-2033, 2003.

Lodén M, Perris F, Nielsen NH, Emdin S, Landberg G. C-erbB2, p27 and G1/S aberrations in human primary breast cancer. AntiCancer Res 23: 1053-1062, 2003.

Rydén L, Linderholm B, Nielsen NH, Emdin S, Jönsson P, Landberg G. Tumor specific VEGF-A and VEGFR2/KDR protein are co-expressed in breast cancer. Breast Cancer Res 82: 147-154, 2003.

Jirström K, Ringberg A, Fernö M, Anagnostaki L, Landberg G. Tissue microarray analyses of G1/S-regulatory proteins in ductal carcinoma in situ of the breast indicate that cyclin D1 is a predictive factor for local recurrence. *Br J Cancer* 89: 1920-1926, 2003.

Hedberg Y, Ljungberg B, Roos G, Landberg G. Expression of cyclin D1, D3, E, and p27 in human renal cell carcinoma analysed by tissue micro array. *British J Cancer* 88: 1417-1423, 2003.

Öhd J, Kamp JF, Nielsen C, Campbell J, Landberg G, Löfberg H, Sjölander A. Expression of the leukotriene D4 receptor cycLT1, COX-2, and other cell survival factors in colorectal adenocarcinomas. *Gastroenterology* 1: 57-70, 2003.

Hedberg Y, Ljungberg B, Roos G, Landberg G. Aberrant cyclin E and p27 protein content in human renal cell carcinoma. *Internation J Cancer* 102: 601-607, 2002.

Cao Y, Lundwall Å, Gadaleanu V, Lilja H, Bjartell A. Anti-trombin is expressed in the benign prostatic epithelium and in prostate cancer and is capable of forming complexes with prostate-specific antigen and human glandular kallikrein 2. *Am J Pathol* 161: 2053-2063, 2002.

Landberg G. Multiparameter analyses of cell cycle regulatory proteins in human breast cancer: a key to definition of separate pathways in tumorigenesis. *Adv Cancer Res*: 84:35-56, 2002.

Lodén M, Stighall M, Nielsen NH, Östlund H, Roos G, Emdin SO, Landberg G. The cyclin D1 high and cyclin E high subgroups of primary breast cancer. Separate pathways in tumourogenesis based on pattern of genetic abnormalities. *Oncogene* 21: 4680-4690, 2002.

Monica Nistér, WP 5.4 reports the following publications:

Frozen Tissue Biobanks, Tissue handling, cryopreservation, extraction, and use for proteomic analysis

Review submitted for publication February 2005.

Handling of Brain and Glial Brain Tumor Tissue for Biobanking and Proteomics

The manuscript is planned to be submitted for publication in April of 2005.

Optimized Protein Extraction From Cryopreserved Brain Tissue Samples

Submitted for publication February of 2005.

De Bustos, C., Smits, A., Strömberg, B., Collins, V. P., Nistér, M., and Afink, G.

A PDGFRA promoter polymorphism, which disrupts the binding of ZNF148, is associated with primitive neuroectodermal tumours and ependymomas.

J Med Genet 42: 31-37, 2005.

Hesselager, G., Ren, Z. P., Saft, L., Hägerstrand, D., Wester, K., Östman, A., and Nistér, M. Different glioblastoma multiforme subgroups exist with regards to EGFR and PDGFRA activation.

Submitted.

Mats G. Hansson, WP 7 reports the following publications:

Hansson, Mats G. Building on relationships of trust in biobank research, *Journal of Medical Ethics*, in press.

Hansson, Mats G. Integrity -from an evolutionary and ethical perspective. Monograph. Carlsons Förlag, in press.

Helgesson, Gert. Children, longitudinal studies, and informed consent. *Medicine, Health Care and Philosophy*, in press.

Helgesson, Gert, Johnsson, Linus. The right to withdraw consent to research on biobank samples, *Medicine, Health Care and Philosophy*, in press.

Helgesson, Gert, Ludvigsson, Johnny, Gustafsson Stolt, Ulrica. How to handle informed consent in longitudinal studies when participants have a limited understanding of the study, *Journal of Medical Ethics*, prel. accepted.

Eriksson, Stefan, Helgesson, Gert. To give renewed information or letting people be - A suggested tool for identifying those research participants who rightly want only limited information, manuscript at reviewers, *Journal of Medical Ethics*, prel. accepted.

Gustafsson Stolt, U., Helgesson, G., Liss, P-E, Svensson, T, Ludvigsson, J. Information and informed consent in a longitudinal screening involving children: a questionnaire survey, *European Journal of Human Genetics*, 2005 (13): 376-383.

von Essen, Ulrik. När, var och hur uppkommer en biobank?, *Förvaltningsrättslig tidskrift* 2004: 103-130.

Hansson, Mats G & Levin, Marianne (eds.). *Biobank as resources for health*. Uppsala University, 2003. Among other papers, it includes:

von Essen, Ulrik. Focusing on personal integrity violation - legal guidelines for ethical practice. 129-148.

Helgesson, Gert. A Swedish standard for information and consent procedures in biobank research. 149-164.

Kaijser, Magnus. Examples from Swedish biobank research. 33-50.

Hellstadius, Åsa, Wolk, Sanna & Wessman, Richard. Intellectual property and biobanks. 207-225.

von Essen, Ulrik. Biobanksforskning - forskares möjligheter att få tillgång till vävnadsmaterial och personuppgifter. *Förvaltningsrättslig tidskrift* 2003 (2): 197-214.

von Essen, Ulrik. Biobanks- och registerforskning - etikprovning och materialtillgång. In Wolk, Sanna (ed.). *Biobanksrätt*, 2003: 177-234.

Wessman, Richard. Biobanken, marknaden och rätten. In Wolk, Sanna (ed.). *Biobanksrätt*, 2003: 303-321.

von Essen, Ulrik. Etikprovning av biobanks- och registerforskning. *Förvaltningsrättslig tidskrift* 2002 (5-6): 351-380.

Hansson, Mats G. Combining efficiency and concerns about integrity in the use of human biobanks. Submitted.

Website: www.bioethics.uu.se/biobanker (Gert Helgesson responsible for the content).

Ulrik von Essen, Mats G. Hansson and Bo S. Lindberg have also contributed with Biobanker som hälsoresurs - educational material (landstinget).

Malmö Microbiology Biobank reports the following publications:

Widell A, Molnegren V, Pieksma F, Calmann M, Peterson J, Lee SR.
Detection of hepatitis C core antigen in serum or plasma as a marker of hepatitis C viraemia in the serological window-phase.
Transfus Med 12: 107-113, 2002.

Tissue Biobank at Karolinska Hospital reports the following publications:

Kjellman P, Wallin G, Hoog A, Auer G, Larsson C, Zedenius J. MIB-1 index in thyroid tumors: a predictor of the clinical course in papillary thyroid carcinoma.
Thyroid. 2003 Apr;13(4):371-80.

Valimaki S, Forsberg L, Farnebo LO, Larsson C. Distinct target regions for chromosome 1p deletions in parathyroid adenomas and carcinomas.
Int J Oncol. 2002 Oct;21(4):727-35.

Frisk T, Foukakis T, Dwight T, Lundberg J, Hoog A, Wallin G, Eng C, Zedenius J, Larsson C. Silencing of the PTEN tumor-suppressor gene in anaplastic thyroid cancer.
Genes Chromosomes Cancer. 2002 Sep;35(1):74-80.