



Curriculum Vitae

Personal information **Eva Skovlund**

Work experience

1. Employer: Norwegian Research Council
 - Start date: 011986
 - End date: 121990
 - Position: research fellow
 - Activities: PhD project: Sequential two_sample methods in controlled clinical trials
 - Country: Norway
2. Employer: Glaxo Norway
 - Start date: 011991
 - End date: 011992
 - Position: biostatistician
 - Activities: Planning and analyses of clinical trials
 - Country: Norway
3. Employer: University of Oslo
 - Start date: 021992
 - End date: 011995
 - Position: associate professor
 - Activities: research, supervision and lectures in statistics
 - Country: Norway
4. Employer: Norwegian Cancer Society
 - Start date: 011995
 - End date: 082001
 - Position: research coordinator
 - Activities: supervision clinical research projects, mainly Norwegian Radium Hospital
 - Country: Norway
5. Employer: University of Oslo
 - Start date: 011995
 - End date: 022015
 - Position: visiting professor
 - Activities: research and supervision
 - Country: Norway
6. Employer: Norwegian Medicines Agency
 - Start date: 092001
 - End date: 012010
 - Position: senior adviser
 - Activities: Assessment of efficiency and safety. CHMP member from 2002
 - Country: Norway
7. Employer: Norwegian Medicines Agency
 - Start date: 022010
 - End date: 112011
 - Position: scientific director
 - Activities: Member CHMP Chair/vice chair BSWP
 - Country: Norway
8. Employer: Norwegian Institute of Public Health
 - Start date: 112011
 - End date: 022015
 - Position: director
 - Activities: head Dept of pharmacoepidemiology and acting head Division of epidemiology
 - Country: Norway
9. Employer: Norwegian Institute of Public Health
 - Start date: 032015
 - End date: 122021
 - Position: senior researcher
 - Activities: research projects, mostly pharmacoepidemiology
 - Country: Norway
10. Employer: Norwegian University of Science and Technology
 - Start date: 032015
 - End date:
 - Position: professor
 - Activities: supervision MSc and PhD, epidemiological research
 - Country: Norway
11. Employer: Norwegian Medicines Agency
 - Start date: 102020
 - End date:
 - Position: special adviser
 - Activities: Member of CHMP (from 25 November 2021)
 - Country: Norway

Education and training

1. Subject: University of Oslo
 - Start date: 081980

- End date: 061985
 - Qualification: MSc Pharm
 - Organisation: pharmacology
 - Country: Norway
2. Subject: University of Oslo
- Start date: 081985
 - End date: 121990
 - Qualification: PhD
 - Organisation: PhD thesis: Sequential two_sample methods in controlled clinical trials
 - Country: Norway

Additional information

Publications

1. Skovlund E. and Walløe L. (1987) A simulation study of a sequential t -test developed by Armitage. *Scand. J. Statist.*, 14, 347_352.
2. Skovlund E. (1988) The correction of a two sample sequential t -test developed by Hajnal. *Comput. Statist. Data Anal.*, 6, 165_175.
3. Skovlund E. (1988) A simulation study of three sequential two_sample tests with triangular continuation regions. *J. Stat. Plann. Inference*, 19, 383_394; Erratum (1989), 22, 403_404.
4. Skovlund E. and Walløe L. (1988) A sequential two_sample test developed by stochastic simulation. *J. Statist. Comput. Simul.*, 29, 87_104.
5. Skovlund E. (1991) Truncation of a two sample sequential Wilcoxon test. *Biometrical Journal*, 33, 271_279.
6. Fenstad G. U. and Skovlund E. (1990) A two_sample sequential rank test by Sen investigated by stochastic simulation. *J. Statist. Comput. Simul.*, 36, 129_137.
7. Skovlund E. and Walløe L. (1989) Estimation of treatment difference following a sequential clinical trial. *JASA*, 84, 823_828.
8. Skovlund E. and Walløe L. (1991) Sequential or fixed sample trial design? A case study by stochastic simulation. *J. Clin. Epidemiol.*, 44, 265_272.
9. Skovlund E., Fyllingen G., Landre H., and Nesheim B. I. (1991) Comparison of postpartum pain treatments using sequential trial design. Paracetamol versus placebo. *Europ. J. Clin. Pharmacol.*, 40, 343_347.
10. Skovlund E., Fyllingen G., Landre H., and Nesheim B. I. (1991) Comparison of postpartum pain treatments using sequential trial design. Naproxen versus paracetamol. *Europ. J. Clin. Pharmacol.*, 40, 539_542.
11. Skovlund E. (1991) Should we tell trial patients that they might receive placebo? (letter) *Lancet*, 337, 1041. 1
2. Skovlund E. (1991) Placeboeffekter og kontrollerte kliniske forsøk. *Tidsskr. Nor. Laegeforen.*, 111, 2728_2731.
13. Skovlund E. (1992) How can the number of patients in clinical trials be kept to a minimum? *Pharmaceutical Medicine*, 5, 213_223.
14. Fenstad G.U. and Skovlund E. (1992) The Behrens_Fisher problem; A comparison of test properties when observations are not necessarily normal. *Statistical Research Report*, 10. Department of Mathematics, University of Oslo.
15. Winnem, M., Eskerud, J., Monstad, I., Kierulf, H., Aasen, J., and Skovlund, E. (1993) Migrenediagnostikk i allmennpraksis. *Tidsskr Nor Laegeforen*, 113, 2386_2388. Også publisert som "Maanedens artikel" i *Nordisk Medicin*, 108, 280_282.
16. Skovlund, E. (1994) Should the single blind placebo responder exclusion phase be omitted from clinical trials? *Nord. J. Psychiatry*, 48, 159_165.
17. Bølviken, E. and Skovlund, E. (1994) Confidence intervals from Monte Carlo tests. *Statistical Research Report*, 5. Department of Mathematics, University of Oslo.
18. Boe, J., Bakke, P., Rødølen, T., Skovlund, E., and Gulsvik, A. For the Research Council of the Norwegian Thoracic Society. (1994) High dose inhaled steroids in asthmatics: Moderate efficacy gain and suppression of the hypothalamic_pituitary_adrenal (HPA) axis. *European Respiratory Journal*, 7, 2179_2184.
19. Haaland, K., Karlsson, B., Skovlund, E., and Thoresen, M. (1995) Simultaneous measurements of cerebral circulation with electromagnetic flowmetry and Doppler Ultrasound velocity in the newborn pig. *Pediatr. Res.* 36, 601_606.
20. Haaland, K., Karlsson, B., Skovlund, E., Lagercrantz, H., and Thoresen, M., (1995) Postnatal development of the cerebral blood flow velocity response to changes in PaCO₂ and MABP in the piglet. *Acta Paed. Scand.* 84, 1414_1420.
21. Skovlund, E. and Flaten, O. (1995) Response measures in the acute treatment of migraine. *Cephalalgia*, 15, 519_522.
22. Bjørtuft, Ø., Geiran, O.R., Fjeld, J., Skovlund, E., Johansen, B., and Boe, J. (1996) Bronchiolitis obliterans syndrome in single lung transplantation for chronic obstructive pulmonary disease; impact for gas diffusing capacity and pulmonary perfusion. *Respiratory Medicine*, 90, 553_559.
23. Bølviken, E. and Skovlund, E. (1996) Confidence intervals from Monte Carlo tests. *JASA*, 91, 1071_1078.
24. Løkkevik, E., Skovlund, E., Reitan, J.B., Hannisdal, E., Tanum, G., and Kvinnsland, S. (1996) Skin treatment with Bepanthen □ cream versus no cream during radiotherapy: A randomized controlled trial. *Acta Oncologica*, 8, 1021_1026.
25. Fosså, S.D., Theodore, C.H., Dearnaley, D., Mead, B., Sternberg, C., Roberts, J.T., Scher, H.J., and Skovlund, E. (1996) Post_chemotherapy survival of patients with advanced urothelial cancer. *Br. J. Cancer.* 74, 1655_1659.
26. Skovlund, E. (1996) Controlled clinical trials in cancer research. *Acta Oncologica. Suppl.* 8, 27_33.
27. Bjørtuft, Ø., Simonsen, S., Geiran, O.R., Fjeld, J., Skovlund, E., and Boe, J. (1996) Pulmonary haemodynamics after single lung transplantation for end_stage pulmonary parenchymal disease. *European Respiratory Journal*, 9, 2007_2011.
28. Digranes, A., Solberg, C.O., Sjørusen, H., Skovlund, E., and Sander, J. (1997) Antibiotic susceptibility of blood culture isolates of Enterobacteriaceae from six Norwegian hospitals 1991_1992. *APMIS*, 105, 854_860.
29. Børresen_Dale, A.L., Lothe, R.A., Meling, G.I., Heinault, P., Rognum, T.O., and Skovlund, E. (1998) TP53 and long term prognosis in colorectal cancer; mutations in the Zn_binding domain predict poor survival. *Clinical Cancer Res.* 4, 203_210.
30. Paus, E., Børmer, O.P., Fosså, S.D., Nilsson, O., Otnes, B., and Skovlund, E. (1998) Stability of free and total prostate specific antigen (PSA) in serum from patients with prostate carcinoma and benign hyperplasia. *J. Urol.* 159, 1599_1605.
31. Skovlund, E. (1998) A critical review of papers from clinical cancer research. *Acta Oncol.* 37, 339_346.
32. Strand, Ø.A., Leone, A., Giercksky, K.E., Skovlund, E. and Kirkebøen, K.A. (1998) Improved survival in a pig model of abdominal sepsis by treatment with NG_monomethyl_L_arginine. *Critical Care Medicine*, 26, 1490_1499.
33. Zeimet, A.G., Skovlund, E., Widschwendter, M., Daxenbichler, G., and Marth, C. (1998) Ascitic interleukin_12 is an independent prognostic factor in ovarian cancer. (letter) *J. Clin. Oncol.* 16, 3208_3209.
34. Skovlund, E. (1998) Interim analyses of survival data in cancer clinical trials. *Acta Oncol.* 37, 645_650.
35. Helland, Å., Olsen, A.O., Langerød, A., Johnsen, H., Skovlund, E., and Børresen_Dale, A.L. (1998) p53 polymorphism and risk of cervical cancer. (Scientific correspondence.) *Nature*, 396, 530_531.
36. Kristensen, V.N., Andersen, T.I., Erikstein, B., Geitvik, G., Skovlund, E., Nesland, J.M., Børresen_Dale, A.L. (1998) Single tube multiplex polymerase chain reaction genotype analysis of GSTM1, GSTT1 and GSTP1. Relation to TP53 tumor status and clinicopathological variables in breast cancer patients. *Pharmacogenetics*, 8, 441_447.
37. Laake, K., Launonen, V., Winqvist, R., Huusko, P., Beckmann, M.W., Niederacher, D., Gudlaugdottir, S., Sigurdardottir, V., Eyfjord, J., Seitz, S., Scherneck, S., Rio, P., Bignon, Y.J., Chapème, M.H., Liederer, R., Birnbaum, D., White, G., Varley, J., Sztan, M., Olah, E., Sever, N., Peterlin, B., Plummer, S., Casey, G., Osori, A., Benitez, J., Broeks, A., van't Veer, L., Spurr, N., Borg, Å., Devilee, P., Skovlund, E., and Børresen_Dale, A.L. (1999) Loss of heterozygosity at 11q23.1 and survival in breast cancer: Results of a large European study. *Genes, Chromosomes & Cancer*, 25, 212_221.
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infection in high_grade cervical intraepithelial neoplasia. *Int. J. Gyn. Path.* 18, 206_210. 39. Skovlund, E. (1999) Repeated significance tests on accumulating survival data. *J. Clin. Epidemiol.*, 52, 1083_1088. 40. Breivik, E.K., Barkvoll, P., and Skovlund, E. (1999) Combining diclofenac with acetaminophen or acetaminophen_codeine after oral surgery: a randomized, double blind, single dose study. *Clin. Pharmacol. Ther.*, 66, 625_635. 41. Hatlevoll, R., Karlsen, K.O., and Skovlund, E. (1999) Endobronchial radiotherapy for malignant bronchial obstruction or recurrence. *Acta Oncol.*, 38, 999_1004. 42. Breivik, E.K., Bjørnsson, G., and Skovlund, E. (2000) A comparison of pain rating scales by sampling from clinical trial data. *Clin. J. Pain*, 16, 22_28. 43. Hernandez, A.M., Fosså, S.D., Brøgger, A., Kat, A., and Skovlund, E. (2000) Chromosome aberrations after etoposide containing cisplatin_based chemotherapy for malignant germ_cell tumours. *Ann. Oncol.*, 11, 897_898. 44. Alfsen, G.C., Thoresen, S.Ø., Kristensen, G.B., Skovlund, E., and Abeler, V.M. (2000) Histopathological subtyping of cervical adenocarcinoma reveals increasing incidence rates of endometrioid tumors in all age groups. A population based study with review of all non_squamous cervical carcinomas in Norway from 1966_70, 1976_80, and 1986_90. *Cancer*, 89, 1291_1299. 45. Skovlund, E. and Fosså, S.D. (2000) PSA_screening i tre norske fylker i 1999. *Tidsskr. Nor. Lægeforen.*, 120, 2539_2541. 46. Skarstein, J., Aass, N., Fosså, S.D., Skovlund, E., and Dahl, A.A. (2000) Psychological distress in cancer patients as measured by the Hospital Anxiety and Depression Scale (HADS) and the EORTC QLQ_C33. *J Psychosomatic Res.* 49, 27_34. 47. Lilleby, W., Fosså, S.D., Knutsen, B.H., Abildgaard, A., Skovlund, E., and Lien, H.H. (2000). 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(2001) Immunobead_based detection and characterization of circulating tumor cells in melanoma patients. *Rec. Res. in Cancer Res.* 158, 40_50. 52. Skovlund, E. (2001) Hva kjennetegner en god legemiddelutprøving? *Tidsskr. Nor. Lægeforen.*, 121, 336_338. 53. Breivik, E.K. and Skovlund, E. (2001) Comparing pain rating scales in clinical trials (letter). *Clin. J. Pain.* 17, 104_105. 54. Lilleby, W., Torlakovic, G., Torlakovic, E., Skovlund, E., and Fosså, S.D. (2001). Prognostic significance of histologic grading in patients with prostate carcinoma who are assessed by the Gleason and World Health Organization grading systems in needle biopsies obtained prior to radiotherapy. *Cancer.* 92, 311_319. 55. Holm, R., Skovlund, E., Skomedal, H., Flørenes, V.A., and Tanum, G. (2001) Reduced expression of p21WAF1 is an indicator of malignant behaviour in anal carcinomas. *Histopathology.* 39, 43_49. 56. Røtterud, R., Berner, Å., Holm, R., Skovlund, E., and Fosså, S.D. (2001) p53, p21 and mdm2 expression versus response to radiotherapy in transitional carcinoma of the bladder. *BJU International.* 88, 202_208. 57. Hall, K.S., Wiklund, T., Erikstein, B., Holte, H., Kvalheim, G., Sommer, H.H., Andersen, A., Skovlund, E., Bergh, J., and Hall, C. (2001) Effects of dose_intensive chemotherapy and radiotherapy on serum N_terminal proatrial natriuretic peptide in high_risk breast cancer patients. *Breast Cancer Res & Treat.* 67, 235_244. 58. Suo, Z., Yang, H., Mei, Q., Skovlund, E., Cui, J., and Nesland, J.M. (2001) Type 1 protein tyrosine kinases in Chinese breast carcinomas: A clinicopathological study. *Int. J. Surg. Pathol.* 9, 177_187. 59. Røtterud, R., Skomedal, H., Berner, Å., Danielsen, H.E., Skovlund, E., and Fosså, S.D. (2001) p53 and p21 WAF1/CIP1 behave differently in euploid vs aneuploid bladder tumours treated with radiotherapy. *Acta Oncologica.* 40, 644_652. 60. Alfsen, G.C., Kristensen, G.B., Skovlund, E., Pettersen, E., and Abeler, V.M. 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(2002) NORCCAP (NORwegian Colorectal Cancer Prevention): a randomised trial to assess the safety and efficacy of carbon dioxide versus air insufflation in colonoscopy. *Gut* 50, 604_607. 65. Puska, P., Korpelainen, V., Hoie, L., Skovlund, E., Lahti, T., and Smerud, K.T. (2002) Soy protein in hypercholesterolemia: A double blind, placebo controlled trial. *Eur. J. Clin. Nutr.* 56, 352_357. 66. Bretthauer, M., Gondal, G., Larsen, I.K., Carlsen, E., Eide, T.J., Grotmol, T., Skovlund, E., Tveit, K.M., Vatn, M.H., and Hoff, G. (2002) Design, organisation and management of a controlled population screening study for detection of colorectal neoplasia. Attendance rates in the NORCCAP study (Norwegian Colorectal Cancer Prevention). *Scand J Gastroenterol.* 37, 568_573. 67. Fosså, S.D. and Skovlund, E. (2002) Selection of patients may limit the generalizability of results from cancer trials. *Acta Oncol.* 41, 131_137. 68. Heimdal, K., Skovlund, E., Møller, P. 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Sundstrøm, S., Bremnes, R.M., Kaasa, S., Aasebø, U., Hatlevoll, R., Dahle, R., Boye, N., Wang, M., Vigander, T., Vilsvik, J., Skovlund, E., Hannisdal, E., and Aamdal, S. (2002) Cisplatin and etoposide regimen is superior to cyclophosphamide, epirubicin and vincristine regimen in small_cell lung cancer: Results from a randomized phase III trial with 5 years' follow_up. *J Clin Oncol.* 20, 4665_4672. 77. Torlakovic, E., Skovlund, E., Snover, D. L., Torlakovic, G., and Nesland, J.M. (2003) Morphologic reappraisal of serrated colorectal polyps. *Am J Surg Pathol.* 27, 65_81. 78. Moe, T.J., Mykletun, A., Matre, R., Skovlund, E., Bassøe, C.F., and Dahl, A.A. (2003) Change of immunoglobulins and complement factors in patients with self_injurious behaviour. *Acta Psychiatr Scand.* 107, 151_154. 79. Diep, C.B., Thorstensen, L., Meling, G.I., Skovlund, E., Rognum, T.O., and Lothe, R.A. (2003) Genetic tumor markers with prognostic impact in Dukes' stages B and C colorectal cancer patients. *J Clin Oncol.* 21, 820_829. 80. Guren, M.G., Dueland, S., Skovlund, E., Fosså, S.D., Poulsen, J.P., and Tveit, K.M. (2003) Quality of life during radiation therapy for rectal cancer. *Eur J Cancer.* 39, 587_594. 81. Rønning, M., Blix, H.S., Strøm, H., Skovlund, E., Andersen, M., and VanderStichele, R. (2003) Problems in collecting comparable national drug use data in Europe: the example of antibacterials. *58, 843_849. Eur. J. Clin. Pharmacol.* 82. Soucek, P., Gut, I., Trmny, M., Skovlund, E., Grenaker Alnæs, G., Kristensen, T., Børresen_Dale, A.L., and Kristensen, V.N. (2003) Multiplex single_tube screening for mutations in the Nijmegen Breakage Syndrome (NBS1) gene in Hodgkin's and non_Hodgkin's lymphoma patients of Slavic origin. *Eur J Human Genetics.* 11, 416_419. 83. Smeland, S., Aas, M., Skovlund, E., Erikstein, B., Hess, S.L., and Fosså, S.D. (2003) Role of Strontium_89 as adjuvant to palliative external beam radiation is questionable: results of a double_blind randomised study. *Int J Radiation Oncol Biol Phys.* 56, 1397_1404. 84. Bretthauer, M., Hoff, G., Thiis_Evensen, E., Huppertz_Hauss, G., and Skovlund, E. (2003) Air and carbon dioxide volumes insufflated during colonoscopy. *Gastrointestinal Endoscopy.* 58, 203_206. 85. Breen, A.B., Vaskinn, T.E., Reikvam, Å., Skovlund, E., Lislevand, H., and Madsen, S. (2003) Warfarinbehandling og blødninger (Oral anticoagulants and bleeding). *Tidsskr Nor Lægeforen* 123, 1835_1837. 86. Madsen, S., Breen, A.B., Vaskinn, T.E., Reikvam, Å., Skovlund, E., and Lislevand, H. (2003) High INR_values responsible for adverse events (eletter). Rapid response to

Odén and Fahlén, *BMJ* 2002; 325: 1073_1075. <http://bmj.bmjournals.com/cgi/eletters/325/7372/1073#31018> 87.

Skovlund, E. (2003) Interim analyses in clinical trials. *Heart Drug*. 3, 113_116. 88. Hoff, G., Bretthauer, M., Skovlund, E., and Grotmol, T. (2003) Re: Baseline findings of the Italian multicenter randomized controlled trial of "Once_only sigmoidoscopy" – SCORE (letter). *JNCI* 95, 1089_1090. 89. Reed, W., Hannisdal, E., Skovlund, E., Thoresen, S.Ø., Lilleng, P., and Nesland, J. (2003) Pregnancy and breast cancer: a population based study. *Virchows Archiv*, 443, 44_50. 90. Hernes, E., Fosså, S.D., and Skovlund, E. (2003) Androgen_independent prostate cancer: The clinical problem of a growing pelvic tumour. *Acta Oncol.* 42, 749_755. 91. Bretthauer, M., Skovlund, E., Grotmol, T., This_Evensen, E., Gondal, G., Huppertz_Hauss, G., Efskind, P., Hofstad, B., Holmsen, S.T., Eide, T.J., and Hoff, G. (2003) Inter_endoscopist variation in polyp and neoplasia pick_up rates in flexible sigmoidoscopy screening for colorectal cancer. *Scand J Gastroenterol.* 38, 1268_1274. 92. 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Projects

- PhD supervision Michael Bretthauer, Colorectal cancer screening by flexible sigmoidoscopy. Dissertation 2004
- Morten Wang Fagerland, Performance of significance tests with emphasis on three medical research issues. Dissertation 2009
- Kjersti Bruheim, Radiotherapy for rectal cancer, a long_term follow_up. Dissertation 2010
- Anna Törner, Statistical models on data of long_term follow up after infectious diseases. External mentor. Dissertation 2014.
- Siri Ann Mauseeth. Urinary incontinence. Dissertation May 2018
- Lars Jøran Kjerpeseth. Efficacy and safety of anticoagulants in patients with atrial fibrillation. Dissertation May 2019
- Björg Y. Aksnessæther, Second cancer after RT. Nov 2023
- Stine Rognan, Intervention by clinical pharmacists in an internal medicines ward. Dissertation Oct 2023
- Pushpanjali Shakya, Diabetes Prevention Education Program – An educational lifestyle modification approach to prevent diabetes among prediabetics in Nepal. Dissertation Nov 2023
- Sanju Bhattarai, A cluster randomized trial to evaluate comprehensive approach to hypertension management in Nepal. 2022-
- Santripti Shrestha, Implementing Point-of-Care Tests and Barriers to reduce Antibiotics for vaginal discharge: Randomised controlled trial in Nepal (POCT-BRA Study), 2024-

Memberships

- Alternate member CHMP, Norway, 2021-
- Elected member of DKNVS (The Royal Norwegian Society of Sciences and Letters) 2021
- Member Review Panel Clinical therapy research, Swedish Research Council, 2017-2019.
- Board member, National colorectal screening, 2017. Journal of the Norwegian Medical Association, co_editor *Medisin og tall*, 2015-
- Board member, Norwegian Cancer Registry 2016-2019.
- Board member CDDF (Cancer Drug Development Forum) 2014-2016 and 2020-. Vice chair CDDF, 2022-2024
- Member NEM (National Committee for Medical & Health Research Ethics) 2014-2021.
- Board member, BDA Oncology 2012-2014.
- Editorial board, Scandinavian Journal of Pain, 2012-2024
- Member of the scientific board, *Hjerte_ og karregisteret*, 2012_2017
- Chair Biostatistics Working Party, CHMP/EMA 2011.
- Vice chair Biostatistics Working Party, CHMP/EMA 2009-2010.
- Board member, Norsk Farmaceutisk Selskap, 2009-2011.
- Vice chair, board Norsk Regnesentral, 2010-2014.
- Board member, Norsk Regnesentral 2009-2010.
- Board member, Programstyret for klinisk forskning, Norges forskningsråd 2006-2010.
- Norway's member CHMP (Committee for Medicinal Products for Human Use, EMA) 2004-2011.
- Norway's member CPMP (Committee for Proprietary Medicinal Products, EMEA) 2002-2004.
- Board member NORCCAP (Norwegian Colorectal Cancer Prevention), 1999-2019

Other Relevant Information