

**Department of Clinical Neuroscience**  
Division of Insurance Medicine

## **CURRICULUM VITAE**

### **BIRGITTA FLODERUS**

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### **Academic background**

2003 Professor of Epidemiology, Karolinska Institutet (KI)  
1976 Associate Professor of Epidemiological theory and methods, KI  
1974 PhD Hygiene, KI  
1967 BA (Sociology) Stockholm University

### **Positions**

2009 – Project leader, Department of Clinical Neuroscience, KI. Since 2010  
– professor emerita.  
2007 – 2010 Guest Professor of epidemiology, Department of Public Health Sciences,  
KI  
2003 – 2007 Adjunct Professor, Department of Public Health Sciences and the Institute  
of Environmental Medicine, KI  
2002 – 2007 Researcher, National Institute for Working Life (NIWL), Stockholm  
1997 – 2001 Researcher, National Institute of Environmental Medicine, KI  
1988 – 1996 Researcher, NIWL, Stockholm  
1985 – 1987 Researcher, Department of Hygiene, KI.  
Visiting Researcher, University of Southern California, School of  
Medicine  
1978 – 1984 Research assistant (forskarassistent), Department of Hygiene, KI. 1978 –  
1983 Acting University Reader. Department of Hygiene, KI.  
1967 – 1977 Researcher assistant, Institute of Public Health (Statens Institut för  
Folkhälsan) and the Department of Hygiene, KI.  
Parental leave, two children born 1975, 1976.

### **Scholarships**

Doctoral student KI 1972 – 1974  
Visiting Researcher (Scholarship). University of Southern California, School of  
Medicine, USA 1984-85, supported by Swedish research councils, including FRN.

**Supervision at KI**

Since 2010 co-supervisor of Tony Durkee, Department of Public Health Sciences, KI.

## Main supervisor:

2003	Niclas Håkansson, Med. Dr.
2002	Margaretha Voss, Med. Dr.
1993	Ulf Bergquist, Dr. Med. Vet.
1997	Carin Stenlund, Med. Lic.
1998	Lotta Johansson, Master of Public Health student
1997	Margaretha Voss, Master of Public Health student

**Teaching**

Course responsibility, teaching, examination at different levels of education within the KI, since the early 70s. Teaching at the Stockholm University during the 60s and 70s. Extensive teaching, examination, and supervision at the educational program of the NIWL, during 1974-2006. Invited speaker at several international meetings, organized by e.g. the WHO and the European Parliament.

**Leadership, Collaboration, Board/Committee positions**

Leader of research groups related to projects based on the Swedish Twin Registry, projects of potential health effects of electromagnetic fields, and projects related to sickness absence and disability pension. Collaboration with research groups mainly from the US, the UK, Spain, Denmark and Finland.

1980–84	Head of the Swedish Twin Registry
1983–86	Vice president, International Society for Twin Studies
1984–2002	Member of the Steering group of the Swedish Twin Registry
1991–94	Assistant Head of the Department of Neuromedicine, NIWL

## Member of Editorial Board:

1997 – 2006	Bioelectromagnetics
1997 – 2006	International Journal of Occupational and Environmental Health
1994 – 2009	Scandinavian Journal of Work, Environment and Health

1996 – 2003 Board member of the European Bioelectromagnetics Association (EBEA)

## Member of the Admission Board of Postgraduate Studies:

2006 – 2009	Department of Public Health Sciences, KI
2010–	Department of Clinical Neuroscience, KI

Member of dissertation committees at KI (at least seven times)

Member of the Scientific Committee of Congresses (ICOH 1996, EBEA 1998, EBEA 2001)

**Grants (Principal Investigator)**

1980-85, subcontract grant from the NIH of the US related to the Swedish twin registry (PI of the Swedish subcontract).

Research grants from the Swedish Council for Working Life and Social Research:

2009 01 01 – 2011 12 31 (Dn 2009-0453) 1 900 000:-

Disability pension among Swedish women born in 1960-79

2005 01 01 – 2009 05 31 (Dn 2004-1101) 2 600 000:-

Combining parenthood and work – a contributing cause of ill health and sickness absence in women born in the 60s and 70s?

2002 01 01 – 2003 12 31 (Dn 2002-0463) 400 000:-

Occupational magnetic field exposure and the risk of tumors of the endocrine glands. A case-control study.

2001 01 01 – 2003 06 30 (Dn 2001-0342) 700 000:-

Occupational exposure to high frequency (<300Hz – 300GHz) magnetic fields.

2000 01 01 – 2002 03 31 (Dn 1999-0281) 500 000:-

Occupational magnetic field exposure and ischemic heart disease.

1999 01 01 – 2000 12 31 (Diariennr 1998-0339) 1 000 000:-

Occupational magnetic fields in the workplace. Identification of exposed groups.

1995 07 01 – 1998 06 30 (Dn 95-0226) 1 000 000:-

Resistance welding, magnetic field exposure and cancer morbidity. Collaboration between Denmark and Sweden.

1995– 1997 06 30 (Dn 94-0162) 900 000:-

Low frequency magnetic fields and cancer morbidity. Three epidemiological studies.

My research has also been financially supported by Statens energiverk and Elforsk.

**Publications**

In total 65 articles in international scientific journals (listed below), 6 articles in Swedish scientific journals, 7 book chapters, and 17 research reports.

1. Floderus B, Hagman M, Aronsson G, Marklund S, Wikman A. Medically certified sickness absence with insurance benefits in women with and without children. *EJPH*. Advance access published March 30, 2011.
2. Niederkrotenthaler T, Floderus B, Alexanderson K, Rasmussen F, Mittendorfer-Rutz E. Exposure to parental mortality and markers of morbidity, and the risks of attempted and completed suicide in offspring: an analysis of sensitive life periods. *J Epidemiol Community Health*. 2010 Oct 5. [Epub ahead of print]
3. Nakaya N, Bidstrup PE, Saito-Nakaya K, Frederiksen K, Koskenvuo M, Pukkala E, Kaprio J, Floderus B, Uchitomi Y, Johansen C. Personality traits and cancer risk and survival based on Finnish and Swedish registry data. *Am J Epidemiol*. 2010 Aug 15;172(4):377-85. Epub 2010 Jul 16.
4. Floderus B, Hagman M, Aronsson G, Marklund S, Wikman A. Work status, work hours and health in women with and without children. *Occup Environ Med*. 2009 Oct;66(10):704-10. Epub 2009 Jun 29

5. Floderus B, Hagman M, Aronsson G, Marklund S, Wikman A. Self-reported health in young mothers: the impact of age, work, and socioeconomic conditions. *Women & Health* 2008; 47(2):63-86.
6. Norman K, Floderus B, Hagman M, Toomingas A, Wigaeus Tornqvist E. Musculoskeletal symptoms in relation to work exposures at call centre companies in Sweden. *Work*. 2008;30(2):201-14.
7. Lope V, Pérez-Gomez B, Aragonés N, Lopez-Abente G, Gustavsson P, Floderus B, Docemeci M, Silva A, Pollán M. Occupational exposure to ionizing radiation, electromagnetic fields and risk of thyroid cancer in Sweden. *Scand J Work Environ Health* 2006; 32(4):276-284.
8. Floderus B, Göransson S, Alexandersson K, Aronsson G. Self-estimated life situation in patients on long-term sick leave. *J Rehabil Med* 2005; 37:291-299
9. Håkansson N, Stenlund C, Gustavsson P, Johansen C, Floderus B. Arc and resistance welding and tumours of the endocrine glands: a Swedish case-control study with focus on extremely low frequency magnetic fields. *Occup Environ Med*. 2005; 62(5):304-8
10. Hansen PE, Floderus B, Frederiksen K, Johansen C. Personality traits, health behavior, and risk for cancer: a prospective study of a Swedish twin cohort. *Cancer* 2005; 103(5):1082-91
11. Voss M, Nylen L, Floderus B, Diderichsen F, Terry PD. Unemployment and early cause-specific mortality: a study based on the Swedish twin registry. *Am J Public Health* 2004; 94(12):2155-61
12. Voss M, Floderus B, Diderichsen F. How do job characteristics, family situation, domestic work, and lifestyle factors relate to sickness absence? A study based on Sweden Post. *J Occup Environ Med* 2004; 46(11):1134-43
13. Floderus B, Håkansson N. Occupational exposures and neurodegenerative diseases; Authors response. *Epidemiology* 2004; 15(2): 254.
14. Håkansson N, Gustavsson P, Sastre A, Floderus B. Occupational exposure to extremely low frequency magnetic fields and mortality from cardiovascular disease. *Am J Epidemiol* 2003; 158(6):534-42
15. Håkansson N, Gustavsson P, Johansen C, Floderus B. Neurodegenerative diseases in welders and other workers exposed to high levels of magnetic fields. *Epidemiology* 2003; 14(4):420-6
16. Navas-Acien A, Pollan M, Gustavsson P, Floderus B, Plato N, Dosemeci M. Interactive effect of chemical substances and occupational electromagnetic field exposure on the risk of gliomas and meningiomas in Swedish men. *Cancer Epidemiol Biomarkers Prev*. 2002 Dec;11(12):1678-83.
17. Floderus B, Stenlund C, Carlgren F. Occupational exposures to high frequency electromagnetic fields in the intermediate range (>300 Hz-10 MHz). *Bioelectromagnetics*. 2002 Dec;23(8):568-77
18. Lichtenstein P, De Faire U, Floderus B, Svartengren M, Svedberg P, Pedersen NL. The Swedish Twin Registry: a unique resource for clinical, epidemiological and genetic studies. *J Intern Med*. 2002 Sep;252(3):184-205. Review.
19. Swerdlow AJ, De Stavola BL, Floderus B, Holm NV, Kaprio J, Verkasalo PK, Mack T. Risk factors for breast cancer at young ages in twins: an international population-based study. *J Natl Cancer Inst*. 2002 Aug 21;94(16):1238-46.

20. Moradi T, Adami HO, Ekblom A, Wedren S, Terry P, Floderus B, Lichtenstein P. Physical activity and risk for breast cancer a prospective cohort study among Swedish twins. *Int J Cancer*. 2002 Jul 1;100(1):76-81.
21. Håkansson N, Floderus B, Gustavsson P, Johansen C, Olsen JH. Cancer incidence and magnetic field exposure in industries using resistance welding in Sweden. *Occup Environ Med*. 2002 Jul;59(7):481-6.
22. Håkansson N, Floderus B, Gustavsson P, Feychting M, Hallin N. Occupational sunlight exposure and cancer incidence among Swedish construction workers. *Epidemiology*. 2001 Sep;12(5):552-7. PubMed PMID: 11505175.
23. Voss M, Floderus B, Diderichsen F. Changes in sickness absenteeism following the introduction of a qualifying day for sickness benefit--findings from Sweden Post. *Scand J Public Health*. 2001 Sep;29(3):166-74. PubMed PMID: 11680767.
24. Pollán M, Gustavsson P, Floderus B. Breast cancer, occupation, and exposure to electromagnetic fields among Swedish men. *Am J Ind Med*. 2001 Mar;39(3):276-85. PubMed PMID: 11241560.
25. Voss M, Floderus B, Diderichsen F. Physical, psychosocial, and organisational factors relative to sickness absence: a study based on Sweden Post. *Occup Environ Med*. 2001 Mar;58(3):178-84. PubMed PMID: 11171931; PubMed Central PMCID: PMC1740107.
26. Nylén L, Voss M, Floderus B. Mortality among women and men relative to unemployment, part time work, overtime work, and extra work: a study based on data from the Swedish twin registry. *Occup Environ Med*. 2001 Jan;58(1):52-7. PubMed PMID: 11119635; PubMed Central PMCID: PMC1740025.
27. Whiteman DC, Murphy MF, Verkasalo PK, Page WF, Floderus B, Skytthe A, Holm NV. Breast cancer risk in male twins: joint analyses of four twin cohorts in Denmark, Finland, Sweden and the United States. *Br J Cancer*. 2000 Nov;83(9):1231-3. PubMed PMID: 11027438; PubMed Central PMCID: PMC2363585.
28. Feychting M, Floderus B, Ahlbom A. Parental occupational exposure to magnetic fields and childhood cancer (Sweden). *Cancer Causes Control*. 2000 Feb;11(2):151-6. PubMed PMID: 10710199.
29. Forssén UM, Feychting M, Rutqvist LE, Floderus B, Ahlbom A. Occupational and residential magnetic field exposure and breast cancer in females. *Epidemiology*. 2000 Jan;11(1):24-9. PubMed PMID: 10615839.
30. Floderus B, Stenlund C, Persson T. Occupational magnetic field exposure and site-specific cancer incidence: a Swedish cohort study. *Cancer Causes Control* 1999 Oct;10(5):323-32. PubMed PMID: 10530600
31. Floderus B, Combined occupational and residential exposures. *Radiation Protection Dosimetry*, 1998; 83:93-97.
32. Feychting M, Pedersen NL, Svedberg P, Floderus B, Gatz M. Dementia and occupational exposure to magnetic fields. *Scand J Work Environ Health*. 1998 Feb;24(1):46-53. PubMed PMID: 9562400.
33. Feychting M, Forssén U, Floderus B. Occupational and residential magnetic field exposure and leukemia and central nervous system tumors. *Epidemiology*. 1997 Jul;8(4):384-9. PubMed PMID: 9209851.

34. Stenlund C, Floderus B. Occupational exposure to magnetic fields in relation to male breast cancer and testicular cancer: a Swedish case-control study. *Cancer Causes Control*. 1997 Mar;8(2):184-91. PubMed PMID: 9134242.
35. Floderus B, Persson T, Stenlund C. Magnetic-field Exposures in the Workplace: Reference Distribution and Exposures in Occupational Groups. *Int J Occup Environ Health*. 1996 Jul;2(3):226-238. PubMed PMID: 9933877.
36. Pederson NL, Lichtenstein P, Faire UD, Ahlbom A, Floderus B, Svartengren M. [An (inter)national resource. The Swedish registry on twins informs on the role of environment and heredity in diseases]. *Lakartidningen*. 1996 Mar 20;93(12):1127-30. Swedish. PubMed PMID: 8649076.
37. Floderus B. Is job title an adequate surrogate to measure magnetic field exposure? *Epidemiology*. 1996 Mar;7(2):115-6. PubMed PMID: 8834548.
38. Braun MM, Ahlbom A, Floderus B, Brinton LA, Hoover RN. Effect of twinship on incidence of cancer of the testis, breast, and other sites (Sweden). *Cancer Causes Control*. 1995 Nov;6(6):519-24. PubMed PMID: 8580300.
39. Marenberg ME, Risch N, Berkman LF, Floderus B, de Faire U. Genetic susceptibility to death from coronary heart disease in a study of twins. *N Engl J Med*. 1994 Apr 14;330(15):1041-6. PubMed PMID: 8127331.
40. Floderus B. Cancer in Swedish railway workers (letter). *Cancer Causes Control* 1994;5:581
41. Floderus B, Törnqvist S, Stenlund C. Incidence of selected cancers in Swedish railway workers, 1961-79. *Cancer Causes Control*. 1994 Mar;5(2):189-94. PubMed PMID: 8167266.
42. Floderus B, Persson T, Stenlund C, Wennberg A, Ost A, Knave B. Occupational exposure to electromagnetic fields in relation to leukemia and brain tumors: a case-control study in Sweden. *Cancer Causes Control*. 1993 Sep;4(5):465-76. PubMed PMID: 8218879.
43. Floderus B, Persson T, Stenlund C. [Increased risk of leukemias and brain tumors in occupational exposure to magnetic fields]. *Lakartidningen*. 1992 Dec 9;89(50):4363-6. Swedish. PubMed PMID: 1366267.
44. Mack TM, Floderus B. Malignant melanoma risk by nativity, place of residence at diagnosis, and age at migration. *Cancer Causes Control*. 1991 Nov;2(6):401-11. PubMed PMID: 1764565.
45. Knave B, Paulsson H, Floderus B, Grönkvist L, Häggström T, Jungeteg G, Nilsson H, Voss M, Wennberg A. Incidence of work-related disorders and absenteeism as tools in the implementation of work environment improvements: the Sweden Post strategy. *Ergonomics*. 1991 Jun;34(6):841-8. PubMed PMID: 1893898.
46. Floderus B, Barlow L, Mack TM. Recall bias in subjective reports of familial cancer. *Epidemiology*. 1990 Jul;1(4):318-21. PubMed PMID: 2083311.
47. Thomas DC, Langholz B, Mack W, Floderus B. Bivariate survival models for analysis of genetic and environmental effects in twins. *Genet Epidemiol*. 1990;7(2):121-35. PubMed PMID: 2338229.
48. Gerhardsson M, Floderus B, Norell SE. Physical activity and colon cancer risk. *Int J Epidemiol*. 1988 Dec;17(4):743-6. PubMed PMID: 3272134.

49. Tysk C, Lindberg E, Järnerot G, Flodéus-Myrhed B. Ulcerative colitis and Crohn's disease in an unselected population of monozygotic and dizygotic twins. A study of heritability and the influence of smoking. *Gut*. 1988 Jul;29(7):990-6.
50. Floderus B, Cederlöf R, Friberg L. Smoking and mortality: a 21-year follow-up based on the Swedish Twin Registry. *Int J Epidemiol*. 1988 Jun;17(2):332-40. PubMed PMID: 3403128.
51. Knave B, Floderus B. Exposure to low-frequency electromagnetic fields—a health hazard? *Scand J Work Environ Health*. 1988;14 Suppl 1:46-8. PubMed PMID: 3393879.
52. Pedersen NL, Floderus-Myrhed B. Twin analysis as a potential tool for examining psychosocial factors associated with and preceding smoking behaviors. *Acta Genet Med Gemellol (Roma)*. 1984;33(3):413-24.
53. Hrubec Z, Floderus-Myrhed B, de Faire U, Sarna S. Familial factors in mortality with control of epidemiological covariables. Swedish twins born 1886-1925. *Acta Genet Med Gemellol (Roma)*. 1984;33(3):403-12.
54. Pedersen NL, Friberg L, Floderus-Myrhed B, McClearn GE, Plomin R. Swedish early separated twins: identification and characterization. *Acta Genet Med Gemellol (Roma)*. 1984;33(2):243-50.
55. Bergström J, Floderus-Myrhed B. Co-twin control study of the relationship between smoking and some periodontal disease factors. *Community Dent Oral Epidemiol*. 1983 Apr;11(2):113-6.
56. Kaprio J, Hammar N, Koskenvuo M, Floderus-Myrhed B, Langinvainio H, Sarna S. Cigarette smoking and alcohol use in Finland and Sweden: a cross-national twin study. *Int J Epidemiol*. 1982 Dec;11(4):378-86.
57. Cederlöf R, Rantasalo I, Floderus-Myrhed B, Hammar N, Kaprio J, Koskenvuo M, Langinvainio H, Sarna S. A cross-national epidemiological resource: the Swedish and Finnish cohort studies of like-sexed twins. *Int J Epidemiol*. 1982 Dec;11(4):387-90.
58. Floderus-Myrhed B, Pedersen N, Rasmuson I. Assessment of heritability for personality, based on a short-form of the Eysenck Personality Inventory: a study of 12,898 twin pairs. *Behav Genet*. 1980 Mar;10(2):153-62.
59. Theorell T, Floderus-Myrhed B. 'Workload' and risk of myocardial infarction—a prospective psychosocial analysis. *Int J Epidemiol*. 1977 Mar;6(1):17-21.
60. Myrhed M, Floderus B. Alcohol consumption in relation to factors associated with ischemic heart disease: a cotwin control study. *Acta Genet Med Gemellol (Roma)*. 1976;25:129-32. PubMed PMID: 1031529.
61. Medlund P, Cederlöf R, Flodéus-Myrhed B, Friberg L, Sörensen S. A new Swedish twin registry containing environmental and medical base line data from about 14,000 same-sexed pairs born 1926-58. *Acta Med Scand Suppl*. 1976;600:1-111.
62. Theorell T, Lind E, Floderus-Myrhed B. The relationship of disturbing life changes and emotions to the early development of myocardial and other illness. *Int J Epidemiol* 1975; 4:281-293.
63. Floderus B. Psychosocial factors in relation to coronary heart disease and associated risk factors. Thesis Karolinska Institutet. *Nordisk Hygienisk Tidskrift* 1974, Suppl. 6.

64. Cederlöf R, Floderus B, Friberg L. The Swedish twin registry--past and future use. *Acta Genet Med Gemellol (Roma)*. 1970 Jan-Apr;19(1):351-4. PubMed PMID: 5533790.
65. Cederlöf R, Floderus B, Friberg L. Cancer in MZ and DZ twins. *Acta Genet Med Gemellol (Roma)*. 1970 Jan-Apr;19(1):69-74. PubMed PMID: 5502055.