Title: Family studies using the Swedish Multi-Generation Register: some approaches and challenges

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13:15–14:15 and 14:15~ Coffee/Tea

Place: UB338

Abstract:

The Swedish Multi-Generation register is a unique resource for studies of familial aggregation of disease. However, analysis of data from related individuals requires appropriate statistical methods that are often specific to the research question at hand. In this talk I will describe some statistical approaches that we have used to design and analyse studies of pairs of relatives and more extended family structures in order to address research questions in cancer and perinatal epidemiology. Cox regression is used for time-to-event outcomes and for dichotomous outcomes we use GLMM with probit link where random effects represent the shared genetic and environmental components within the family.

I will outline some challenges that arise in family studies due to truncation and/or censoring of the data available from population registers, and present some approaches to correcting for bias introduced by this incompleteness.

All are welcome!