



**Karolinska  
Institutet**

**Department of Clinical Neuroscience**

# Sickness Behavior: Immune System Influences on Brain and Behavior

**AKADEMISK AVHANDLING**

som för avläggande av medicine doktorsexamen vid Karolinska  
Institutet offentligen försvaras i Rockefeller salen.

**Fredagen den 29 maj 2015 kl. 10.00**

av

**Bianka Karshikoff**

MSc

*Huvudhandledare:*

Dr. John Axelsson  
Karolinska Institutet  
Department of Clinical Neuroscience  
Division of Psychology

*Bihandledare:*

Prof. Mats Lekander  
Stockholm University  
Stress Research Institute

Dr. Caroline Olgart Höglund  
Karolinska Institutet  
Department of Medicine Solna

Prof. Martin Ingvar  
Karolinska Institutet  
Department of Clinical Neuroscience  
Division of Osher Center for Integrative  
Medicine

*Fakultetsopponent:*

Prof. Manfred Schedlowski  
University Hospital Essen  
Institute of Medical Psychology

*Betygsnämnd:*

Dr. Märta Segerdahl  
Karolinska Institutet  
Department of Physiology and Pharmacology

Prof. Robert Harris  
Karolinska Institutet  
Department of Clinical Neuroscience

Prof. Steven Linton  
Örebro University  
Department of Law, Psychology and Social  
Work

**Stockholm 2015**