



**Karolinska  
Institutet**



## Pain in neonates- Workshop 15 June 2010

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- 13.00-13.15    **Opening**  
Hugo Lagercrantz and Lena Bergqvist, Astrid Lindgren's Children Hospital, Stockholm
- 13.15-14.00    ***Pain, stress, and neurodevelopment in very preterm infants***  
Ruth Eckstein Grunau, University of British Columbia, Vancouver
- 14.00-14.15    Coffee
- 14.15-15.00    ***Effectiveness of interventions in infants -nonpharmacological treatment***  
Bonnie Stevens, University of Toronto and the Hospital for Sick Children, Toronto
- 15.10-15.55    ***Placebo and the opioid system***  
Predrag Petrovic, Karolinska University Hospital, Stockholm
- 15.55-16.15    **Summary and closing**  
Hugo Lagercrantz and Lena Bergqvist
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- 16.30-21.00    **NIRS workshop**  
*Pain evaluation with near-infrared spectroscopy*  
Theory and practical use of the Invos and Hamamatsu NIRS systems.  
Jakob Carlsson, Karolinska University Hospital, Stockholm  
*Dinner buffet will be served.*

**Registration for the NIRS workshop** via e-mail before 11 June to [petra.millfors.376@student.ki.se](mailto:petra.millfors.376@student.ki.se).

Location: Skandiasalen, Astrid Lindgren's Children Hospital, Stockholm

**About the lecturers:**



**Ruth Eckstein Grunau**, University of British Columbia, Vancouver

Dr. Ruth Eckstein Grunau, a clinical psychologist, is a Professor in the Neonatology Division, Dept. of Pediatrics at the University of British Columbia, and a Distinguished Scholar in Neurosciences & Child Health at the Child & Family Research Institute, in Vancouver Canada. Dr Grunau is in the forefront internationally of human clinical research in long term effects of neonatal pain on neurodevelopment in preterm infants, and is a pioneer in infant pain assessment.

**Bonnie Stevens**, University of Toronto and the Hospital for Sick Children, Toronto

Dr. Bonnie Stevens is the Signy Hildur Eaton Chair in Paediatric Nursing Research, Associate Chief Nursing, Research and Senior Scientist in the Research Institute at the Hospital for Sick Children. She is a Professor in the Lawrence S. Bloomberg Faculty of Nursing and Faculty of Medicine at the University of Toronto. She is a founding advisory board member of the University of Toronto Centre for the Study of Pain and the Institute of Human Development and Child and Youth at the Canadian Institutes of Health Research (CIHR). Dr. Stevens is also the Director of the University of Toronto Centre for the Study of Pain. She earned her BScN from McMaster University, her MScN from the University of Toronto and her PhD from McGill University.



Dr. Stevens held a Career Scientist Award from the Ontario Ministry of Health and has received the Premiers Research Excellence Award and the American Pain Society's Jeffrey Lawson Award for pediatric pain advocacy. Her current research is on the assessment and management of pain in infants at risk for neurological impairment and the effectiveness of knowledge translation (KT) strategies. She is the Principal Investigator of the CIHR Team in Children's Pain investigating KT interventions in 8 pediatric hospitals in Canada. She has over 200 publications and is the co-editor of the 2007 book "Pain in Neonates and Infants" (Elsevier).



**Predrag Petrovic**, Karolinska University Hospital, Stockholm

Dr Predrag Petrovic, Dept. of Clinical Neuroscience, is doing research on the brain's reward system and how it is essential to sensations of satisfaction, joy and pleasure. It's keymost chemical agent is thought to be the neurotransmitter dopamine. Now however, another class of signal substance, the opioids, has been linked to the human reward system. This means that scientists now are in a position to better understand the underlying mechanisms for how these drugs work.