

DOCTORAL  
THESIS  
SAHLGRENSKA  
ACADEMY

2022



# Blood Vessels, Biomarkers, and Broken Barriers: Investigations of the Brain Vasculature in Models of Neonatal Brain Injury

Axel Andersson



Axel Andersson holds a M.Sc. in Biomedicine from Umeå University and began his doctoral studies at the Department of Physiology at the Sahlgrenska Academy in November 2017.

Blood Vessels, Biomarkers, and Broken Barriers: Investigations of the Brain Vasculature in Models of Neonatal Brain Injury | Axel Andersson

ISBN 978-91-8009-626-3 (PRINT)  
ISBN 978-91-8009-627-0 (PDF)

Printed by Stema Specialtryck AB, Borås

**SAHLGRENSKA ACADEMY**  
**INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY**



UNIVERSITY OF  
GOTHENBURG