

This symposium is arranged by  
the Department of Neurosurgery  
in collaboration with  
the Center for Innovation at  
Karolinska University Hospital &  
Karolinska Institute



Symposium February 5th 2021:

# Augmented Spine

Innovation, navigation and advances in spine research

08:45	Minister of Enterprise and innovation Mr. Ibrahim Baylan	
09:00	Karolinska CEO Dr. Björn Zoëga	
09:15	<b>Professor Staffan Holmin</b> New imaging techniques and potential for spine applications	Karolinska Institute
09:30	<b>Associate Professor Michael Söderman</b> Superselective spinal angiography: surgical aspects	Karolinska Institute
09:45	<b>Dr. Erik Edström</b> Technical advances in neurosurgery	Karolinska Institute
10:00	<b>Dr. Gustav Burström</b> Augmented Navigation	Karolinska Institute
<b>10:30-10:45 Break</b>		
10:45	<b>Professor Christopher Nimsky</b> Intraoperative CT for microscope-based augmented reality in spine surgery	University of Marburg
11:00	<b>Dr. Drazenko Babic</b> From idea to Innovation	University of Magdebourg
11:15	<b>Professor Benno Hendriks</b> Navigation and sensing in spine surgery	Delft University of Technology
11:30	<b>Professor Paul Breedveld</b> From squid tentacle to steerable screw	Delft University of Technology
11:45	<b>Professor Claes Olerud</b> Spinal reconstructions using fibula grafts	Uppsala University

**12:00-13:00 Lunch** *Program for the afternoon on next page, including key note speaker*

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## *Program for the afternoon*

13:00	<b>Professor Roger Härtl (Keynote speaker)</b> Overview: Where Are We with Navigation?	Weill Cornell Medicine
13:45	<b>Professor Niklas Marklund</b> Biomarkers of cervical myelopathy	Lund University
14:00	<b>Professor Paul Gerdhem</b> Pathogenesis of scoliosis	Karolinska Institute
14:15-14:30	<b>Break</b>	Break
14:30	<b>Abstract presentations</b>	
15:00	<b>Dr. Victor Staartjes</b> EUROSPIN: The European Robotic Spinal Instrumentation Study	University of Zurich
15:15	<b>Professor Michael Winking</b> Benefits from Modern Imaging Technology in Spine Surgery	ZW-O Spine Center Osnabrück
15:30	<b>Dr. Adrian Elmi Terander</b> Closing remarks & future perspectives	Karolinska Institute
16:00	Symposium ended	