Emma R Andersson
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(please also see www.anderssonlab.com)

Emma R. Andersson is an Assistant Professor at the Karolinska Institute, Stockholm. Dr Andersson has a long-standing interest in genetic disease and control of regeneration.
As a Ph.D. student with Ernest Arenas at the Karolinska Institute, she elucidated a role for WNT signaling in the morphogenesis and differentiation of the embryonic midbrain.

During her postdoctoral studies with Urban Lendahl at the Karolinska Institute, her work focused on the role of Notch signaling in development and disease. She performed guest research in the laboratories of Professors Elaine Fuchs and Mary E Hatten (Rockefeller University) to further develop the technique of ultrasound-guided nanoinjection of developing mouse embryos, to achieve gene targeting in a versatile and rapid manner in vivo.

Currently, her research focus is on the genetic and mechanistic basis of Alagille Syndrome, a multi-organ disease caused by defects in Notch signaling, and the development of techniques to manipulate gene expression in vivo in mammalian systems, in a high-throughput fashion.

Having developed a mouse model for Alagille syndrome, the lab now integrates single cell approaches, systems biology and epidemiology to unravel the mechanisms driving Alagille pathologies, in order to develop novel therapies.