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Author	<b>Simon Olofsson</b>	
Title (English)	<b>Role of Dicer in Breast Cancer Stem Cells</b>	
Title (Swedish)		
Abstract	<p>Dicer is a ribonuclease type III enzyme that plays an important role in the biosynthesis of miRNA as well as other cellular functions such as siRNA synthesis. Dicer is mainly a cytoplasmic protein, however, it has been shown that Dicer is also present in the nucleus. It has also been shown that silencing of Dicer in breast cancer stem cells increases their self-renewal capacity. In this project, I focused on elucidating the role of Dicer in breast cancer stem cells by trying to identify specific domains or functional regions of Dicer that regulate breast cancer stem cell self-renewal capacity, as well as the effect of the subcellular localization of Dicer. While there is still much to be investigated regarding the role of Dicer in the biology of cancer stem cells, the results of this study suggests that the expression of GFP-NLS-Dicer, i.e. Dicer that is overexpressed and localized in the nucleus, might induce lower proliferative ability of breast cancer stem cells.</p>	
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