



## Claus Svane Sondergaard, Ph.D.

<b>Clinical Interests</b>	Dr. Sondergaard's research focuses on human stem and progenitor cells of hematopoietic, mesenchymal and endothelial lineages and their potential to mediate tissue regeneration in pre-clinical animal models. His current research specifically focuses on the development of an implantable stem cells and extra cellular matrix scaffold device for cardiovascular repair.
<b>Title</b>	Visiting Assistant Professor
<b>Specialty</b>	<a href="#">Surgery - Cardiothoracic</a>
<b>Department</b>	<a href="#">Surgery</a>
<b>Division</b>	Cardiothoracic Surgery
<b>Languages</b>	Danish, German
<b>Education</b>	Ph.D., Aarhus University, Aarhus, 2008 B.S., Aarhus University, Aarhus, 1999 M.S., Aarhus University, Aarhus, 2003
<b>Internships</b>	Washington University, School of Medicine, St Louis, MO, 2005
<b>Professional Memberships</b>	American Association for the Advancement of Science International Placental Stem Cell Society
<b>Honors and Awards</b>	Stem Cell Training Program Award, California Institute for Regenerative Medicine, 2011 Travel Award, Danish Heart Association, 2006 Travel Award, Danish Cancer Society, 2004 Scholarship, Danish Stem Cell Doctoral School, 2004 Scholarship, Danish Cancer Society, 2002
<b>Select Recent Publications</b>	Mathews G, Sondergaard C, Jeffreys A, Childs W, Le BL, Sahota A, Najibi S, Nolte J, Si MS. Computational Analysis of Contractility in Engineered Heart Tissue. IEEE Trans Biomed Eng. 2012 May;59(5):1429-35. Sondergaard CS, Mathews G, Wang L, Jeffreys A, Sahota A, Wood M, Ripplinger CM, Si MS. Contractile and Electrophysiologic Characterization of Optimized Self-Organizing Engineered Heart Tissue. Ann Thorac Surg. 2012 Oct;94(4):1241-9. Sondergaard CS, Russell Witt, Grant Mathews, Skender Najibi, Lisa Le, Tracy Clift, Ming-Sing Si Prevascularization of self-organizing engineered heart tissue by human umbilical vein endothelial



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Larsen H?, Roug AS, Nielsen K, S?ndergaard CS, Hokland P. Nonviral transfection of leukemic primary cells and cells lines by siRNA-a direct comparison between Nucleofection and Accell delivery. *Exp Hematol.* 2011 Nov;39(11):1081-9.

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Sondergaard CS, Haldrup C, Beer C, Andersen B, Kohn DB, Pedersen L. Preloading potential of retroviral vectors is packaging cell clone dependent and centrifugation onto CH-296 ensures highest transduction efficiency. *Hum Gene Ther.* 2009 Apr;20(4):337-49.

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