## Nano Course in Lymphatics in Health and Disease Syllabus

**GS21 1341**  
**Fall 2017**

Instructors: Melissa Aldrich, PhD, John C. Rasmussen, PhD, and Sunkuk Kwon, PhD

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Instructor(s)</th>
<th>Topics</th>
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| **October 10 and 12, 2017**  
Tuesday and Thursday  
9-11 am  
IMM/SRB 331 | Aldrich | (2 hours) Aldrich—introduction to lymphatics anatomy, developmental biology, and molecular effectors of function  
(2 hours) Aldrich—description of immunological interactions within lymphatics, lymph node lymphatic architecture, effects of inflammation on lymphatics |
| **October 17 and 19, 2017**  
Tuesday and Thursday  
9-11 am  
IMM/SRB 331 | Rasmussen | (2 hours) Rasmussen—description of lymphatic imaging modalities, underlying photonic principles of near-infrared fluorescence imaging, and application to human lymphatic investigation  
(2 hours) Rasmussen—description of human/clinical studies of lymphatic dysfunction, discussion of potential future applications |
| **October 24 and 26, 2017**  
Tuesday and Thursday  
9-11 am  
IMM/SRB 331 | Kwon | (2 hours) Kwon—description of animal lymphatic imaging studies, animal models of lymphedema and other lymphatic disorders  
(2 hours) Kwon—metastasis and lymphatics, near-infrared fluorescence imaging in animal cancer models |
| **October 31 and November 2, 2017**  
Tuesday and Thursday  
9-10:30 am  
IMM/SRB 331 | | (1-1/2 hours) student presentations and discussion  
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