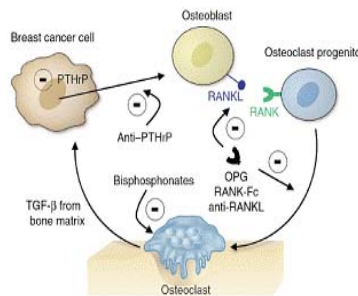
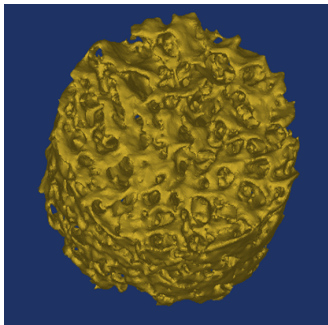


PROGRAM OF SEMINAR IN MATHEMATICAL BIOLOGY (WS 2010/11)  
**BIOLOGY, MATHEMATICS AND PHYSICS OF THE BONE**



SEMINAR DATES & TOPICS	TITLES OF SUBTOPIC	SPEAKERS (HOST)
7TH NOVEMBER, 2011 <b>STRUCTURE AND FUNCTION</b>	<ol style="list-style-type: none"> <li>1. Biology: Structure and function</li> <li>2. Physics of the bone</li> <li>3. Morphology of trabecular bone</li> </ol>	<i>Matthias Schumacher</i> <i>Robert Müller</i> <i>Christoph Jentsch</i> <i>Robert Müller</i> (Manfred Bobeth)
21ST NOVEMBER, 2011 <b>CELLULAR DYNAMICS I: REMODELING AND TISSUE ENGINEERING</b>	<ol style="list-style-type: none"> <li>1. Calcium influence on bone remodeling</li> <li>2. Modeling of the Basic Multicellular Unit (BMU)</li> <li>3. Cell migration &amp; Tissue Engineering</li> </ol>	<i>Thomas Hanke</i> <i>Rico Fischer</i> <i>Katrin Boettger</i> (Christoph Landsberg)
5TH DECEMBER, 2011 <b>MECHANO-TRANSDUCTION</b>	<ol style="list-style-type: none"> <li>1. Mechanotransduction</li> <li>2. Bone growth models</li> <li>3. Modeling of mechanical loading</li> </ol>	<i>Osvaldo Chara</i> <i>Nadine Hohmann</i> <i>Fabian Rost</i> (Robert Müller)
16TH JANUARY, 2012 <b>CELLULAR DYNAMICS II: ANGIOGENESIS &amp; CANCER</b>	<ol style="list-style-type: none"> <li>1. Role of angiogenesis in bone formation</li> <li>2. Multiple Myeloma</li> <li>3. Wrap up-interesting modeling aspects</li> </ol>	<i>Alvaro Köhn-Luque</i> <i>Roland Zimm</i> <i>Andreas Deutsch</i> (Andreas Deutsch)
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