

ABC 11 – Pre-Conference WORKSHOP on: Mechanical Factors for Osteoarthritis

2nd Dec 2018

Lecture theatre 505-011, Grafton Campus

1.00pm to 2.00 pm	Registration and Assembly
<p>I. PARTICIPATION – Set-up 2.00pm to 2.15pm</p>	<p>We will use this time to organize ourselves into two groups: Experimentalists and Modelers. We will all be in the same room, however give some prior thought on where you would like to locate yourself in the room, based on these two groups.</p> <p>The simplest and best way to describe the two groups are as follows: Modelers are those that use mathematical or computer modeling techniques to solve biomechanical problems. Experimentalists are those that do not. (If you are both, choose a group for the day).</p> <p>The purpose of this first stage of the workshop is for us to get to know each other and to <i>structure the participation</i> that we will need to develop the discussion in the later stages.</p>
<p>II. PERSPECTIVE TAKING 2.15 pm to 4.00pm</p>	<p style="text-align: center;">SHORT¹ 10-minute PRESENTATIONS WITH DISCUSSION</p> <p>Topic 1: Is there such a thing as ‘primary OA’?</p> <p>If primary OA is due to factors such as age or wear and tear, and secondary OA is due to factors such as injury or obesity, from a mechanical standpoint what is the difference?</p> <ol style="list-style-type: none"> 1. <i>Aging vs Trauma OA - Are They Different?</i> – Peter Torzilli 2. <i>Predictive models and their role in understanding the multi-factorial nature of OA</i> – Rami Korhonen 3. <i>The bone and cartilage response team to mechanical (over-) stimuli.</i> – Egon Perilli 4. <i>Multiscale structural realities in pre-OA</i> – Ashvin Thambyah <p>Topic 2: Can the problem of OA be solved – with, or without, mechanical factors?</p> <p>If the age-related structural breakdown of the joint tissues is mechanically mediated, to what extent are mechanical factors in OA crucial yet downplayed in the present OA research?</p>

¹ Presenters are reminded to keep the presentations short and tight, accessible to all, and best suited to stimulate discussions.

	<p>5. <i>Mechano-chemo-neuro-biology of tissue adaption in OA: The argument for an integrated multiscale view of the condition.</i> – David Lloyd</p> <p>6. <i>“Is there a need for mechanical factors to predict and prevent the OA disease progression – clinically?”</i> Simo Saarakkala</p> <p>7. <i>Combining high-resolution joint imaging with gait analysis in OA: crossing boundaries in biomechanics</i> – Egon Perilli</p> <p>8. <i>If It’s Broken, Can we Fix It?</i> – Peter Torzilli</p>
4.00pm – 4.15pm	BREAK with REFRESHMENTS
<p>III. Setting up Collaborations</p> <p>4.15 pm to 5. 15pm</p>	<p>Topic 3: Osteoarthritis - If mechanics is the answer, what is the question?</p> <p>Organise into groups for discussion and brainstorming.</p> <p>Share ideas from the different groups, with Q&A.</p>
5.15pm	OPEN DISCUSSION & Closing Remarks

The workshop ‘stimulants’ (presenters of the short talks):

[Ashvin Thambyah](#)

[David Lloyd](#)

[Egon Perilli](#)

[Peter Torzilli](#)

[Rami Korhonen](#)

[Simo Saarakkala](#)