

# D-HEST Research Day 2014: Detailed Schedule

08:30	Registration			
09:00	Welcome Address Prof. Lino Guzzella			
	Introductory Talk Prof. Ralph Müller			
09:15	<b>Group Presentatios, Session 1</b>			
	7 groups (21 presentations)			
	First Name	Last Name	Title Presentation	Group
	Josef	Hörmansperger	Gentle steam decontamination of food powder	Erich J. Windhab
	Cornelia	Koller Lopes	High-Pressure Foaming of Fat-Continuous Systems	Erich J. Windhab
	Jana	Bahtz	Water transport in osmotically imbalanced W/O/W multiple emulsions	Erich J. Windhab
	Fabian	Birbaum	Particle Stabilized Foams	Peter Fischer
	Natalie	Scheuble	Controlling Satiety by Tailored Interfaces	Peter Fischer
	Viviane	Lutz-Bueno	Complex fluids and microfluidics	Peter Fischer
	Larissa	Schefer	Self-Assembly of Food Polysaccharides at the Molecular Level	Raffaele Mezzenga
	Sophia	Jördens	Structural and physical properties of amyloid fibrils at liquid interfaces	Raffaele Mezzenga
	Isabelle	Martiel	Towards phospholipid-based nonlamellar lyotropic liquid crystalline delivery systems	Raffaele Mezzenga
	Dominika	Ignasiak	Effects of age related changes in the musculoskeletal system on spinal loading	Stephen Ferguson
	William	Enns-Bray	What Predisposes a Hip to Fracture?	Stephen Ferguson
	Olga	Krupkova	New strategies for the treatment of the painful degenerative disc disease	Stephen Ferguson
	Andreas	Trüssel	Single Cell Gene Expression Mapping in Mechanical Induced Bone Adaptation	Ralph Müller
	Marios	Georgiadis	A correlative 3D framework for biomechanical bone imaging	Ralph Müller
	Duncan	Betts	In sillico multi-scale model of natural and augmented fracture healing	Ralph Müller
	Claude	Holenstein	Quantitative Cell and ECM mechanics	Jess Snedeker
	Aron	Horvath	Decreased viscoelastic response to substrate stretch in a model of bone cancer metastasis	Jess Snedeker
	Stefania	Wunderli	The role of matrix mechanics in tendon degeneration and regeneration	Jess Snedeker
	Pascal	Schütz	Understanding the Dynamics of the Human Knee Joint	William B. Taylor
	Stefan	Schmid	Spine Dynamics during Gait	William B. Taylor
	Florian	Vogl	Functional adaption - Determining bone health by acoustic methods	William B. Taylor
10:20	Photo session (all participants)			
10:30	Coffegee break			
11:00	<b>Group Presentations, Session 2</b>			
	4 groups (10 presentations)			
	First Name	Last Name	Title Presentation	Group
	Marc	Schneider	Urinary tract dysfunction in rats	Martin Schwab

Benjamin	Ineichen	Nogo-A Neutralisation as a Potential Novel Remyelinating Agent for Multiple Sclerosis	Martin Schwab
Noémie	Jordi	Functional and neuroanatomical plasticity in the visual system after excitotoxicity-induced injury	Martin Schwab
Eugenia	McAllister	Effects of Pro-Inflammatory Cytokines on Central Action of Leptin and Insulin	Wolfgang Langhans
Rosmarie	Clara	Possible role of cell metabolism in the release of GLP-1 from enteroendocrine cells	Wolfgang Langhans
Deepti	Ramachandran	Intestinal Fatty Acid oxidation and Control of Food intake	Wolfgang Langhans
Alik	Perdikari	From White to Brown Adipocytes	Christian Wolfrum
Leon	Straub	Masked brite adipocytes	Christian Wolfrum
Gitalee	Sarker	Transgenerational transmission of altered hedonic behaviors induced by perinatal maternal high fat diet exposure	Christian Wolfrum
Johannes	Mansfeld	Tackling age-related diseases by promoting endogenous stress response	Michael Ristow

**11:30 Keynote: Dr. Ian Roberts, Bühler Group**

**12:00 Lunch**

**13:30 Lab tours / Graduate Session**

**15:15 Group Presentations, Session 3**  
**4 groups (10 presentations)**

First Name	Last Name	Title Presentation	Group
Eva	van het Reve	Effects of cognitive-motor training on gait, divided attention and falls	Eling de Bruin
Seline	Wüest	The instrumented Timed Up and Go: its ability to assess stroke-induced balance and mobility impairments	Eling de Bruin
Patrick	Eggenberger	Brain Function and Cognition in Elderly Following Training	Eling de Bruin
Simon	Arnoldini	Novel approach to measure mechanical strain of fibronectin in tissues	Viola Vogel
Susanna	Früh	Super-Resolution Imaging of the Fibronectin Extracellular Matrix	Viola Vogel
Melanie	Burkhardt	Role of blood in peri-implant wound healing	Viola Vogel
Florian	Formica	A nanofiber-hydrogel composite as drug delivery system for cartilage repair	Marcy Zenobi-Wong
Matti	Kesti	ECM based bioink for cartilage regeneration	Marcy Zenobi-Wong
Claudia	Loebel	Hyaluronic acid hydrogel for endochondral ossification	Marcy Zenobi-Wong
Jana	Barbey	Nutrition Knowledge, the Social and Food Environment and Peoples Food Choice	Michael Siegrist
Angela	Bearth	Food Risk Perception and Communication	Michael Siegrist
Cristina	Kreuzmair	Medical risk communication with graphical formats	Michael Siegrist

**15:50 Coffee Break**

**Coffee Break**

**16:15 Group Presentations, Session 4**  
**6 groups (17 presentations)**

First Name	Last Name	Title Presentation	Group
Van	Pam	A cohort study revealing the trophic chain	Christophe Lacroix
Lea	Bircher	Innovative technology for the production of functional and safe human colonic microbiota for microbial transplantation	Christophe Lacroix

Eun-Hee	Doo	Effects of dietary nucleotides (NT) and yeast extracts (YE) on human and animal gut microbiota studied with in vitro modeling platform	Christophe Lacroix
Raffael	Inglin	Genomic approach to identify interactions between microbes during food fermentation and biopreservation	Leo Meile
Edwina	Romanens	Development of antifungal microbes for cocoa bean fermentation	Leo Meile
Pamela	Vazquez Gutierrez	Iron sequestration mechanisms in Bifidobacterium to fight enteropathogens	Leo Meile
Titu	Staubli	A novel mode of reproduction in <i>L. monocytogenes</i> L-forms	Martin Loessner
Jenna	Denyes	Alternative affinity molecules from phages	Martin Loessner
Sibylle	Schmitter	Characterization of a Toxin-Antitoxin System in <i>L. monocytogenes</i>	Martin Loessner
Nadine	Sobotzki	Drug-based Receptor Capture (DRC): Identification of functional small molecule-receptor interactions on living cells	Shana Sturla
Lea	von Moos	Safety of iron phosphate nanoparticles for food applications	Shana Sturla
Arman	Nilfouroushan	Targeting DNA Polymerase $\eta$ ,-mediated Bypass of Platinum DNA-Adducts	Shana Sturla
Aline	Schär	Enzymatic Reactions of Steryl Ferulates and other Phenolic Acid Esters	Laura Nyström
Samy	Boulos	Chemical Characterization & Identification of Cereal Beta-Glucan Oxidation Products	Laura Nyström
Valeria	Galetti	Efficacy of water-based zinc fortification via a filtering system: a RCT in Benin	Michael Zimmermann
Coralie	Signorell	Zinc bioavailability and biological efficacy from biofortified wheat	Michael Zimmermann
Lidija	Posavec	Nutritional application of novel nanoscale calcium compounds	Michael Zimmermann

**17:15 Panel**

**17:45 Aperó**