

BONITOS

BONe and orthopedics InTerdisciplinary
sympOSium



June 13th, 2025

University Claude Bernard Lyon 1,
Lyon FRANCE

société de
BIOMECHANIQUE



June 13th, 2025

HOW TO REACH THE PLACE?



Mediatheque Paul Zech

Faculty of Medicine, Lyon Est,
Building J.F. Cier
8 avenue Rockefeller
Lyon (see page 3 for details)

**Commute with public transportation
From Downtown Lyon:**

Metro B - Grange Blanche (about 20 min)

SCAN BELOW TO REGISTER



CONTACT:

Jean-Philippe Berteau: jean.berteau@csi.cuny.edu
Hélène Follet: helene.follet@univ-lyon1.fr
Aurélie Levillain: aurelie.levillain@univ-lyon1.fr
Laurent Pujo-Menjouet: pujo@math.univ-lyon1.fr

Official email address: bonitos.symposium@gmail.com



BONITOS 2025 convenes experts from around the world specializing in **Bone, Biomechanics, and Orthopedics**.

In partnership with the prestigious French-speaking **Society of Biomechanics** and the **American Association of Physical Therapists (APTA)**, our symposium guarantees a fusion of cutting-edge insights, pioneering innovations, and unparalleled expertise. All submitted abstracts undergo rigorous peer review and are subsequently published in the **"Advances in Bone and Orthopedics"** book, indexed in both CUNY Academic Works and HAL Open Science.

Welcome to BONITOS 2025 !

IMPORTANT DATES

February 15th

Registration and abstract
submission open

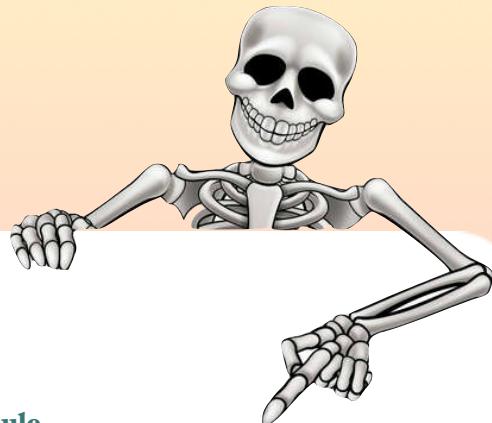
March 1st Pre-program released

April 15th Abstract submission closed

May 1st Abstract acceptance

May 15th List of speakers and program
outline

PROGRAM ANNOUNCEMENT



Schedule

- 09:00** Welcome attendees
- 09:30 Opening remarks
- 09:45** Talks Session 1: Basic Science
- 11:05 Coffee and Tea Break
- 11:20** Poster Session
- 12:15 Lunch
- 13:30** Keynote: Deepak Vashishth
- 14:00 Talks Session 2: Clinical Science
- 15:00** Poster Prize Announcement and Closing remarks

13:30 KEYNOTE STRESS FRACTURES IN BONE UNDER PHYSIOLOGICAL LOADING WITH MULTIAXIAL LOADS



Dr. Deepak Vashishth is Director of the Center for Biotechnology and Interdisciplinary Studies at Rensselaer Polytechnic Institute, where he leads cutting-edge, interdisciplinary research on bone health and fosters public-private partnerships to drive sustainable and socially responsible innovation. His work focuses on the **biomolecular science and engineering of bone tissue, particularly related to osteoporosis diagnosis and treatment**, and includes over 200 peer-reviewed publications as well as a novel technique for identifying bone proteomes from nanoscale samples. Recognized as a **Fellow of the American Institute of Medical and Biological Engineering**, he plays an active role in national scientific committees and continues to advance translational research across disciplines and sectors.

GOOD TO KNOW

[Link to the official webpage](#)



WELCOME TO THE BONITOS COMMUNITY

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FACULTY OF MEDICINE, LYON EST,
BUILDING J.F. CIER
8 AVENUE ROCKEFELLER



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09:00 am	Welcoming attendees	12:15	LUNCH + Group Photo
09:30 am	Opening remarks <i>Laurent Pujo-Menouet</i>		
09:45 am	SESSION 1 Basic Science <i>chaired by Aurélie Levillain</i>		KEYNOTE <i>Stress fractures in bone under physiological loading with multiaxial loads</i> <i>Deepak Vashishth</i>
	TALKS		
	09:50- <i>Bone-implant interface : from meso to sub-micro</i> <i>Sophie Le Cann,</i> 10:05- <i>Numerical Model for in-vitro Ultrasound Stimulation of Bone Cells</i> <i>Lucille Allegre</i> 10:20- <i>Pedicle screw implementation in vertebrae: when does the cortical bone is perforated?</i> <i>Morgane Evin</i> 10:35- <i>3D-Printed mechanical twins to predict the risk of vertebral fracture with metastasis</i> <i>Joris Claude</i> 10:50- <i>The duration of Type 2 Diabetes Mellitus is an important determinant of bone material properties: the DIABONE Study</i> <i>Delphine Farlay</i>		
11:05 am	Coffee and Tea Break		
11:20 am	Poster Session <i>chaired by Hélène Follet</i>		SESSION 2 Clinical Science <i>chaired by Jean-Philippe Berteau</i>
	1- Gabriel Latour 2- Lise de Oliveira 3- Baptiste Moisan		TALKS
	4- Lawrence Goldfeld 5- Léa Fillot 6- Mia Brely 7- Emile Saillard		14:00- <i>Masticatory Muscle Responses During Maximum Incisal Clenching</i> <i>Kaushik Mukherjee</i> 14:15- <i>Evaluation of a new modular system for personalised corrective surgery</i> <i>Laura Revol</i> 14:30- <i>Spatial Heterogeneity of Cochlear Bone Microstructure Supports Auditory Function</i> <i>Yoshihiro Obata</i> 14:45- <i>Development of Minimally Invasive Dental Implants for Medically Compromised Patients: From Preclinical Evaluation to Clinical Application</i> <i>Arnaud Lafon</i>
15:00			Poster Prize Announcement and Closing remarks