

BONITOS

BONE and orthopedics **InTerdisciplinary**
symp**OS**ium



June 13th, 2025

University Claude Bernard Lyon 1,
Lyon FRANCE



June 13th, 2025

HOW TO REACH THE PLACE?



Mediathèque 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:

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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**

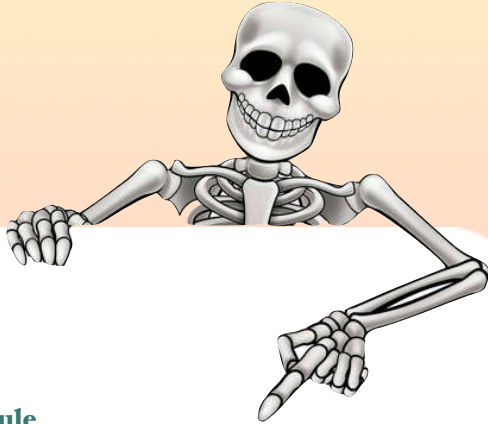
March 1st Pre-program released

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
- 9:45** 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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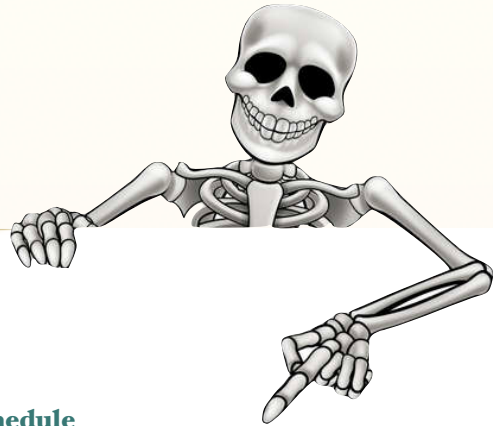
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FACULTY OF MEDICINE, LYON EST,
BUILDING J.F. CIER
8 AVENUE ROCKEFELLER



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PROGRAM AND TITLES



09:00 am Welcoming attendees

09:30 am Opening remarks
Laurent Pujo-Menjouet

09:45 am SESSION 1
Basic Science
chaired by Aurélie Levillain

TALKS

09:50- Bone-implant interface : from meso to sub-micro
Sophie Le Cann,
10:05- Numerical Model for in-vitro Ultrasound
Stimulation of Bone Cells
Lucille Allegre
10:20- Pedicle screw implementation in vertebrae: when does
the cortical bone is perforated?
Morgane Evin
10:35- 3D-Printed mechanical twins to predict the risk of
vertebral fracture with metastasis
Joris Claude
10:50- The duration of Type 2 Diabetes Mellitus is an
important determinant of bone material properties: the
DIABONE Study
Delphine Farlay

11:05 am Coffee and Tea Break

11:20 am Poster Session
chaired by Hélène Follet

1- Gabriel Latour
2- Lise de Oliveira
3- Baptiste Moisan

4- Lawrence Goldfeld
5- Léa Fillot
6- Mia Brely
7- Emile Saillard

12:15 LUNCH + Group Photo

13:30- KEYNOTE
Stress fractures in bone under physiological loading with multiaxial loads
Deepak Vashishth

14:00 SESSION 2
Clinical Science
chaired by Jean-Philippe Berteau

TALKS

14:00- Masticatory Muscle Responses During Maximum Incisal
Clenching
Kaushik Mukherjee
14:15- Evaluation of a new modular system for personalised corrective
surgery
Laura Revol
14:30- Spatial Heterogeneity of Cochlear Bone Microstructure
Supports Auditory Function
Yoshihiro Obata
14:45- Development of Minimally Invasive Dental Implants for
Medically Compromised Patients: From Preclinical Evaluation to
Clinical Application
Arnaud Lafon

15:00 Poster Prize Announcement
and
Closing remarks