

BIOBONE

Workshop

“Surface mechanical characterization of  
ceramic-based materials”

23<sup>rd</sup> – 24<sup>th</sup> of April 2015, Barcelona, Spain



# PROGRAM

Thursday 23<sup>rd</sup>

## Morning session (Reserved to Biobone members)

08:30 – 09:00: Registration and coffee

09:00 – 10:45: Long presentations by Biobone PhD Students

10:45 – 11:00: Coffee Break

11:00 – 12:15: Short presentations by Biobone PhD Students

12:15 – 13:00: Management / Students meeting

13:00 – 14:30: Lunch

## Afternoon session : Workshop

14:30 – 14:45: Registration and coffee

14:45 – 15:00: **Introduction**

Prof. Eduardo Saiz, Imperial College (London, UK)

15:00 – 15:45: **Current situation on the development of new ceramic composites for implants**

Dr. Helen Reveron, INSA Lyon (Lyon, France)

15:45 – 16:30: **Surface characterization and degradation of zirconia**

Prof. Marc Anglada, UPC (Barcelona, Spain)

16:30 – 16:45: Coffee Break

16:45 – 17:30: **Measuring residual stresses in surface layers**

Dr. Lina Rogström, Linköping University (Linköping, Sweden)

17:30 – 18:15: **Production of BIOLOX<sup>®</sup> components for Total Hip Replacements**

Dr. Norbert Schneider, CeramTec (Plochingen, Germany)

## Evening (Reserved to Biobone members & Speakers)

18:45 – 20:30: Walking tour in Barcelona's city center on "Sant Jordi's" Day

20:30: Dinner at "Pomarada" restaurant

## Friday 24<sup>th</sup>

### Morning session : Workshop

09:00 – 09:45: **Instrumented indentation as a tool to investigate porous ceramics and the evolution of material during biodegradation**

Dr. Sylvain Meille, INSA Lyon (Lyon, France)

09:45 – 10:30: **Nanoindentation and other small scale mechanical testing techniques**

Dr. Finn Giuliani, Imperial College (London, UK)

10:30 – 11:15: **Studying the surface of materials by X-ray photoelectron spectroscopy**

Prof. Jordi Llorca, UPC (Barcelona, Spain)

11:15 – 11:30: **Coffee break**

11:30 – 12:15: **Basics of Focused Ion Beam microscopy**

Dr. Emilio Jiménez Piqué, UPC (Barcelona, Spain)

12:15 – 12:45: **Atomic Force Microscopy: applications to biomaterials**

Dr. Joan Josep Roa Rovira, UPC (Barcelona, Spain)

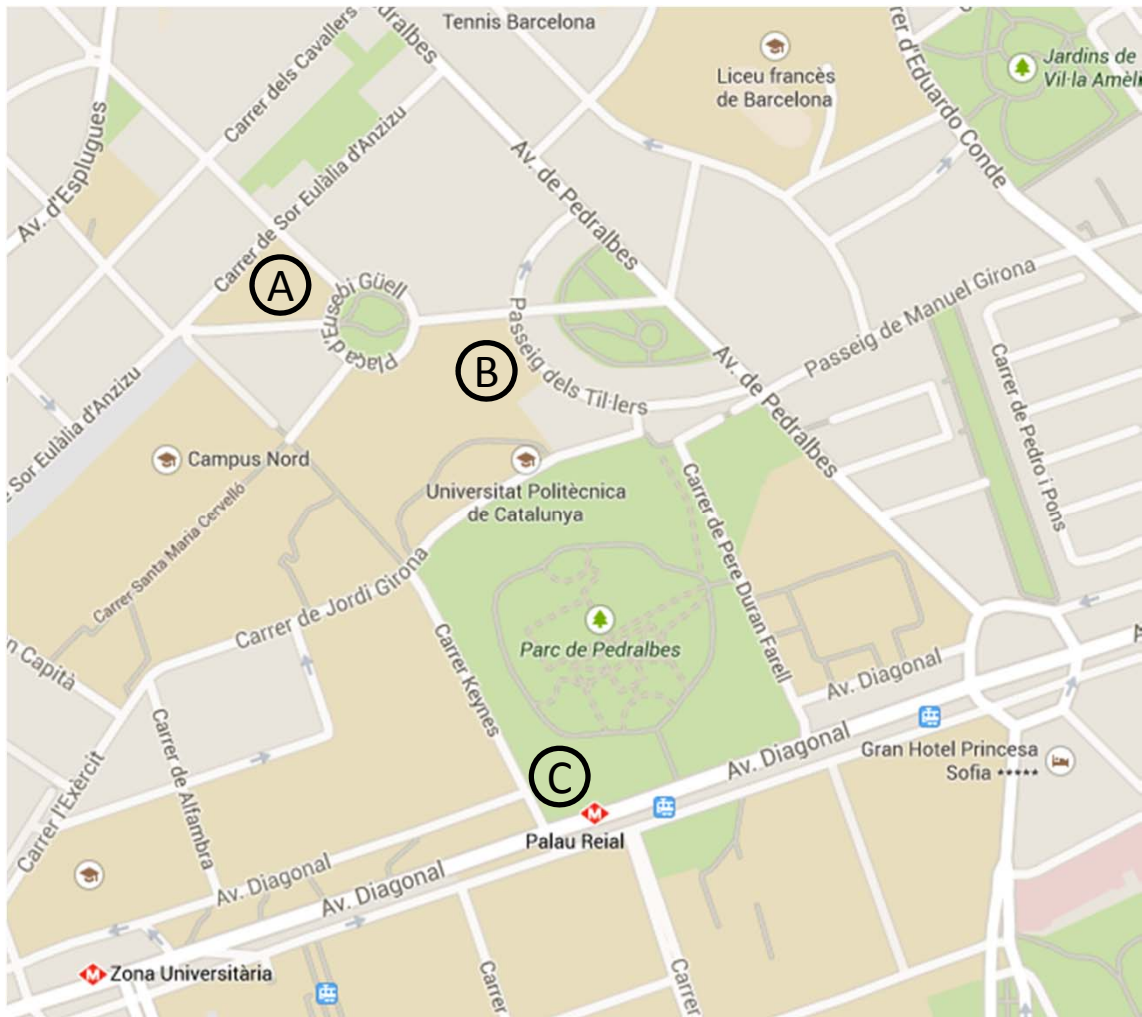
12:45 – 13:15: **Small scale mechanical testing of zirconia**

Dr. Erik Camposilvan, UPC (Barcelona, Spain)

13:15 – 14:30: Lunch

14:30 – 15:30: Lab tour (Optional)

# Workshop venue



**(A)**

## **Workshop venue**

Campus Diagonal Nord. Edificio VX (Vèrtex)  
Pl. Eusebi Güell, 6 - 08034 Barcelona

**(B)**

## **“Torre Girona” residence**

Passeig dels Til·lers, 19 - 08034 Barcelona

**(C)**

Underground (L3) and tramway station  
“Palau Reial”