UCBM ACADEMY

COURSE

KINEMATIC ALIGNMENT VS. ROBOT-ASSISTED FUNCTIONAL ALIGNMENT: THEORETICAL-PRACTICAL FOCUS ON PERSONALIZED ALIGNMENTS IN TKA

19 JUNE 2026 - CU.BO BUILDING - SIMULATION CENTER

Università Campus Bio-Medico di Roma

Congress President

Edoardo Franceschetti
Pietro Gregori
Stefano Campi
Fondazione Policlinico Universitario Campus Bio-Medico

Scientific Committee

Giancarlo Giurazza
Fondazione Policlinico Universitario Campus Bio-Medico

Honorary President

Rocco Papalia
Fondazione Policlinico Universitario Campus Bio-Medico

Honorary Guest

Sebastien Lustig
Croix Rousse Hospital, Lyon, France

Venue

CU.BO Building - Simulation Center
Università Campus Bio-Medico di Roma

Total knee arthroplasty (TKA) has undergone a profound conceptual and technological evolution in recent years, shifting from standardized alignment strategies toward increasingly patient-specific approaches. In this context, Kinematic Alignment (KA) and Functional Alignment (FA), the latter often supported by robot-assisted surgery, represent two central and complementary concepts in the current scientific debate.

Kinematic Alignment aims to restore the native anatomy and kinematics of the knee by respecting the individual joint lines and soft-tissue envelope. Conversely, Functional Alignment, enhanced by robotic technology, integrates the principles of personalized alignment with a dynamic and functional assessment of the joint, allowing for highly accurate planning and intraoperative adaptability.

Despite the growing adoption of these concepts, relevant questions remain regarding their theoretical foundations, clinical indications, limitations, and true benefits, as well as the role of robotic technology in improving accuracy, reproducibility, and functional outcomes in personalized TKA.

This congress is designed to provide a critical and constructive comparison between Kinematic Alignment and Robot-Assisted Functional Alignment, with a strong theoretical–practical focus. Through up-to-date scientific evidence, clinical cases, and interactive discussions, the meeting aims to equip surgeons with practical tools to understand, select, and consciously apply different personalized alignment strategies, placing the patient and functional outcomes at the center of the decision-making process. The program will also include hands-on practical sessions, allowing participants to directly experience and apply the discussed techniques and technologies, thereby promoting experiential learning and facilitating immediate translation into daily clinical practice.

- PROGRAMME -
19 JUNE 2026

08:15 Welcome coffee and Course Registration

08:45 Greetings from the authorities

08:50 President's Greeting
Where we are in knee arthroplasty and where we are headed
Rocco Papalia

KINEMATIC ALIGNMENT

09:00 Definition And Rationale
Edoardo Franceschetti

09:10 Surgical Techinque
Biagio Zampogna

09:20 KA for the forgotten knee, here is the data
Giancarlo Giurazza

09:30 KA optimized Implants
Pietro Gregori

09:40 RE LIVE SURGERY:
UNRESTRICTED KINEMATIC ALIGNMENT
Edoardo Franceschetti
young Comment: *Giancarlo Giurazza*

10:15 Discussion and questions

10:45 Coffee break

FUNCTIONAL ALIGNMENT/POSITIONING

11:00 Definition and base principles
Sebastien Lustig

11:10 Planning and Surgical Techinque
Sebastien Lustig

11:20 FA is the solution- here is the data
Sebastien Lustig

11:30 Management of Patello-femoral space with FA
Christos Koutserimpas

11:40 Valgus: Functional positioning as the superior personalized approach
Pietro Gregori

11:50 Time to rethink in 3 D:
Beyond Static Coronal Alignment
Luca Andriollo

12:00 RE-LIVE SURGERY:
ROBOTIC-ASSISTED FUNCTIONAL ALIGNMENT
Sebastien Lustig
young Comment: *Pietro Gregori*

12:35 Discussion and questions

13:00 Lunch

13:45 DRY LAB - C.U.B.O - Simulation Center

STATION 1
UNRESTRICTED KINEMATIC ALIGNMENT
Tutor: *Edoardo Franceschetti, Stefano Campi, Pietro Gregori, Giancarlo Giurazza*

Station of at least 5 saw bones knees

STATION 2
ROBOTIC-ASSISTED FUNCTIONAL ALIGNMENT WITH MAKO
Tutor: *Sebastien Lustig, Luca Andriollo, Christos Koutserimpas*

Stations with MAKO simulators and at least 5 knees (saw bones)

16:00 End of the Course

Faculty

Luca Andriollo
Orthopedics and Traumatology
Fondazione Poliambulanza Istituto Ospedaliero – Brescia

Stefano Campi
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Edoardo Franceschetti
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Giancarlo Giurazza
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Pietro Gregori
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Christos Koutserimpas
Orthopedics and Traumatology
Università di Patrasso, Grecia

Sebastien Lustig
Orthopedics and Traumatology
Croix Rousse Hospital, Lyon, France

Rocco Papalia
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Biagio Zampogna
Orthopedics and Traumatology
Fondazione Policlinico Universitario Campus Bio-Medico

Con il Patrocinio di:

Approvato SIAGASCOT

Con il contributo non condizionato di:

Medacta Italia

Novamed

stryker

Coordinamento e informazioni

UCBM Academy - Università Campus Bio-Medico di Roma

Tel. (+39) 06.22.541.9300 - 9400 - Fax (+39) 06.22.541.1900

ucbmacademy@unicampus.it - ucbmacademy.unicampus.it