

OActive

OACTIVE TRAINING SESSION II:

DATE: 29 MAY 2020

“Engaging end users
to the OActive world”

COMBINING
BIOMARKERS,
BIOMECHANICS,
AND AI
FOR PERSONALIZED
REHABILITATION
AGAINST
OSTEOARTHRITIS



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement No. 777159.



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AGENDA

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INTRODUCTION

- 09:30 Welcome and opening remarks;
Agenda overview by the Coordinator and short
presentation of OActive concept (10')
Kyriacos Felekis, University of Nicosia
Ioanna Katsavou, Axia Innovation

BIOMARKERS AND BIOMECHANICS

- 09:40 Biochemical modelling and inflammation biomarkers (20')
Christos Papanephtou University of Nicosia
& Ramon Messegue, Leitat Technological Center
- 10:00 Behaviour modelling and environmental biomarkers (20')
Gianluca de Toma, SMARTEX & Thijs Swinnen, KULeuven
& Sotiris Tsaoulis, CERTH
- 10:20 Biomechanical modelling of the knee (20')
David Britzman, Liverpool John Moores University

30 MINUTES BREAK

COMPUTATIONAL MODELLING & VALIDATION

- 11:10 Computational modelling empowered by big data
and deep learning (20')
Dimitrios Tsaopoulos, CERTH
- 11:30 Using artificial tissues as test-bench for rehabilitation
against osteoarthritis (20')
Roberto Di Gesù, RIMED

PERSONALISED INTERVENTIONS

- 11:50 Real time gait monitoring and retraining (20')
Georgios Giarmatzis, University of Patras

CLOSING POINTS

- 12:10 Training evaluation (5')
Ioanna Katsavou, Axia Innovation
- 12:15 Closing speech from the coordinator (5')
Kyriacos Felekis, University of Nicosia

END OF DAY



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