

The interinstitutional Centre of Translational Biomechanics (CBT) presents the

7th Research Day of Translational Orthopedics

June 19th 2009

EPFL

Room CM 05

10H00 - 10H15

Welcome..... B. Jolles-Haeberli, Head of CBT

10H15 - 11H00

LABORATORY OF BIOMECHANICAL ORTHOPEDICS (LBO)

LBO presentation..... D. Pioletti, Head of LBO

3D micromotion measurement around a loaded hip stem using μ ct M. Gortchacow, M. Wettstein

A musculoskeletal knee model in loaded activities of daily living..... S. Ramondetti, A. Terrier

Mechanical stimulation for bone formation inside tissue engineering scaffolds A. Roshan Ghias, P.-Y. Zambelli

11H00-11H45

LABORATORY OF MOVEMENT ANALYSIS AND MEASUREMENT (LMAM)

LMAM presentation..... K. Aminian, Head of LMAM

3D knee joint movements during gait by bi-plane fluoroscopy and stereophotogrammetry A. Barré, B. Jolles-Haeberli

Outcome evaluation in shoulder pathology using kinematic and kinetic parameters C. Duc, A. Djahangiri

3D Gait Analysis for self-mobility improvement in the elderly B. Mariani, C. Bula

12H00-13H15

LUNCH BREAK

13H15-14H00

JULIUS WOLFF INSTITUT, BERLIN

Mechanical loads on orthopaedic implants: towards instrumented implants P. Westerhoff

14H00-14H20

HOPITAL DU CHABLAIS - HES-SO HEPIA

Metal ions release measurement: current approaches for metal-on-metal total hip arthroplasty Y. Arlettaz, E. Rosset

14H20-14H40

CELLULAR THERAPY UNIT, DALO, CHUV

Fetal cell therapy in regenerative medicine for musculoskeletal tissues L. Laurent-Applegate

14H40-14H45

Conclusion A. Farron, Head of the Orthopaedic Department, CHUV