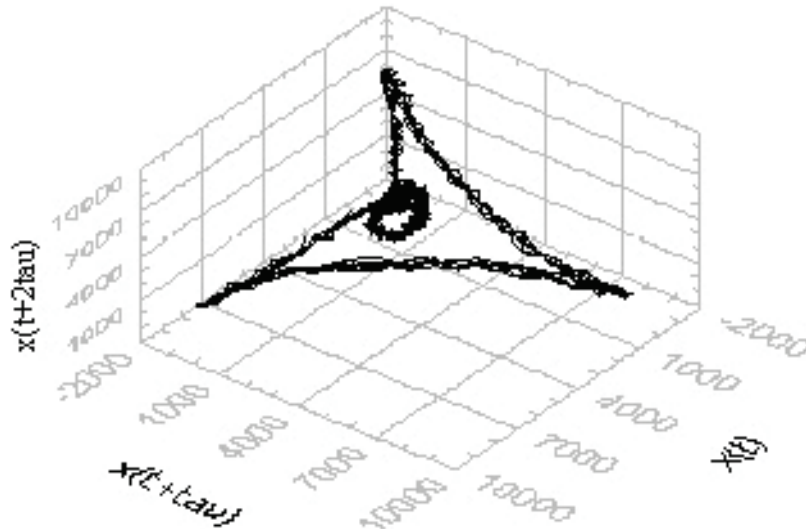




3rd Meeting of the European Study Group of Cardiovascular Oscillations



May 10-12, 2004, Leuven (Belgium)



Monday May 10, 2004

Session 1 : Chair : Malliani A, Beckers F

9.30-9.45: Welcome by Prof Malliani and Prof Aubert

9.45-10.15 : Akselrod S : Heart and Brain : Asleep and Awake

10.15-10.45 : Baselli G : Integrated approaches to the analysis of complexity
in the cardiovascular system

Coffee Break

Session 2 : Chair : Swynghedauw B, Aubert AE

11.15-11.45 : Porta A : Automatic classification of interference patterns in
single sympathetic neuron discharges forced by
mechanical ventilation

11.45-12.15 : Parthimos D : Deterministic structure of in vivo red cell velocity
and arteriolar diameter fluctuations

Lunch Break at the Faculty Club

Session 3 : Chair: Akselrod S, Ector H

14.00-14.30 : Voss A : Application of new non-linear measures and
interaction analyses for risk stratification in patients
with implanted cardioverter-defibrillator, with dilated
cardiomyopathy and in pregnant women

14.30-15.00 : Hoyer D : Autonomic Information Flow of Complex
Communication in the Autonomic Nervous System
assessed by Mutual Information Function

15.00-15.30 : Zebrowski J : Evidence of nonlinear instabilities in the human
heart rate variability

Coffee Break

Session 4 : Chair : Porta A, Cerutti S

16.00-16.30 : Colantuoni A : Rhythmic diameter changes induced by
melatonin in rat pial arterioles during ischemia
reperfusion injury

16.30-17.00 : Koenigsberger M : Calcium Dynamics in a Population of
Smooth Muscle Cells: Modeling Asynchronous
Flashing, Recruitment and Synchronization

17.00-17.30 : Sauser R : A Bifurcation Analysis of Coupled Smooth Muscle
Cells

19.30h Evening Dinner at the Faculty Club

Tuesday May 11, 2004

Session 5 : Chair : Voss A, Caminal P

9.00-9.30 : Beckers F : Non-linear cardiovascular control

9.30-10.00 : Wessel N : Heart rate turbulence versus variability and baroreceptor sensitivity in risk stratification

10.00-10.30 : Guzzetti S: Symbolic analysis of short heart period variability series before life-threatening arrhythmia

Coffee Break

Session 6 : Chair : Fortrat JO, Wessel N

11.00-11.30 : Ector H : The neurocardiogenic syncope

11.30-12.00 : Folino AF : Tilt-induced modulation of autonomic activity in patients with neurally-mediated syncope

Lunch Break at the Faculty Club

Session 7 : Chair: Hoyer D, Baselli G

14.00-14.30 : Aubert AE : Cardiovascular variability applied in microgravity conditions

14.30-15.00 : Buchheit M : The increase in HRV in moderately-trained individuals does not persist in high-level athletes: a novel sleep approach

15.00-15.30 : Van Ginderdeuren J : Wearable platform for ambulatory ECG monitoring

Coffee Break

Session 8 : Chair : Montano N, Colantuoni A

16.00-16.30 : Fortrat JO : Spectral analysis incoherences: do we need better tools or should we revisit the cardiovascular regulation?

16.30-17.00 : Zwirn G : Stationary Clutter Rejection in Echocardiography

17.00-17.30 : Caminal P : Evaluation of Different Rhythms in Heart Rate Variability using Hidden Markov Models

19.30h Gala Dinner at the Faculty Club

Wednesday May 12, 2004

Session 9 : Chair : Baselli G, Parthimos D

9.00-9.30 : Montano N : Autonomic oscillations and cardiovascular function

9.30-10.00 : Wessel N : Heart rate dynamics before the onset of ventricular tachyarrhythmias: Results from the cardioverter-defibrillator registry MARITA

10.00-10.30 : Van Huffel S: Sensitivity of detrended fluctuation analysis applied to heart rate variability of neonates

Coffee Break

Session 10 : Chair : Zebrowski J, Sauser R

11.00-11.30 : Caiani E : Methods for echocardiographic quantification of cardiovascular function in parabolic flights

11.30-12.00 : Verheyden B : Extreme challenges of autonomic cardiovascular control during parabolic flights

Adjourn by Prof. Swynghedauw

Lunch Break at the Faculty Club

Poster session:

Continuously, starting from Monday morning.