

Contents

100th Anniversary of Masaryk University in Brno, Czech Republic

100 years of Masaryk University 2019	5
<i>Jarmila Siegelova</i>	
100 th Anniversary Celebration of the Birth of Franz Halberg	11
<i>Germaine Cornelissen</i>	
Prof. Dr. Franz Halberg, 5.7.1919 -9.6.2013: Chronobiological research at Halberg University Center, University of Minnesota, USA	17
<i>Jarmila Siegelova</i>	
Five major determinants for peak VO ₂	27
<i>Masahiro Kohzuki</i>	
Effect of shift-work on the circadian rhythm of blood pressure	31
<i>Germaine Cornelissen, Alena Havelkova, Cathy Lee Gierke, Linda Sackett Lundeen, Jarmila Siegelova</i>	
Day-to-day variation in day-night ratio of blood pressure	41
<i>Linda Sackett Lundeen, Alena Havelkova, Larry A Beaty, Mason Voth, Jarmila Siegelova, Prof. MUDr. Kuniaki Otsuka, Germaine Cornelissen</i>	
Spaceflight, Aging and Bedrest confinement	51
<i>Nandu Goswami</i>	
Bedrest and Geriatrics	53
<i>Nandu Goswami</i>	
Effects of resistive vibration exercise on cardiovascular parameter	55
<i>Bianca Brix, Nandu Goswami</i>	
Seven day/24-h ambulatory blood pressure monitoring in night shift workers: Excessive Pulse Pressure	57
<i>Jarmila Siegelova, Alena Havelkova, Marie Krabkova, Jiri Dusek, Michal Pohanka, Leona Dunklerova, Petr Dobsak, Germaine Cornelissen</i>	

EM. UNIV.-Prof. DR. MED. UNIV. Thomas Kenner, D.h.c. mult. 29.9.1932 – 22.12.2018 67
Jarmila Siegelova

Eccentric Training in Ambulatory Rehabilitation Program of Patients
with Chronic Heart Failure: a Pilot Study 69
*Petr Dobsak, Leona Miskova, Michal Pohanka, Alena Havelkova, Radka Latalova, Pavel Homolka,
Veronika Mrkvicova, Petra Palanova, Michaela Sosikova, Jarmila Siegelova*

Chronobiology research: Brno-Graz collaboration 81
Jarmila Siegelova

A different response of the upper and lower limb beat-to-beat pulse wave velocity to the orthostatic
challenge 107
*Jana Svačinová, Simona Hidegová, Helena Sieglová, Zuzana Kaščáková, Martin Fabšík,
Juraj Jakubík, Ksenia Budinskaya, Jan Novák, Zuzana Nováková, Jana Hrušková*

Non-invasive assessment of arterial stiffness in cardiovascular diseases 113
Jiri Jarkovsky, Michal Pohanka, Helena Bedanova, Ladislav Dusek, Jarmila Siegelova, Petr Dobsak