

**DEPARTMENT OF NATURAL SCIENCES IN KINANTHROPOLOGY, FACULTY  
OF PHYSICAL CULTURE, PALACKÝ UNIVERSITY OLMOUC**

**PhDr. Michal Botek, Ph.D.**

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- Heart rate variability, metabolic and oxygen saturation response to different level of simulated altitude during rest, and exercise
- Differences in somatic and physiological variables response to chronic physical activity in normoxia compared to normobaric hypoxia

**Mgr. Aleš Gába, Ph.D.**

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- Evaluation of combined effects of 24-hour lifestyle behaviours on childhood obesity
- Prospective associations between objectively measured physical activity and body fatness in youth

**Prof. PaedDr. Rudolf Psotta, Ph.D.**

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- Differential diagnostics of DCD and ADHD in the children based on the neuropsychological assessment of information processing capacity
- Effects of the video feedback in motor skill learning in the children with impaired motor coordination
- Muscular and physiological adaptations to the short-term training with very high intensity intermittent exercise

**Mgr. Zdeněk Svoboda, Ph.D.**

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- Gait stability in various conditions
- Assessment of running stability using non-traditional procedures
- Kinetic analysis of gait in subjects with total hip arthroplasty

**DEPARTMENT OF SOCIAL SCIENCES IN KINANTHROPOLOGY, FACULTY OF  
PHYSICAL CULTURE, PALACKÝ UNIVERSITY OLOMOUC**

**Doc. Donald Nichols Roberson, Ph.D.**

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- Leisure and Recreation Philosophy
- Aging, Recreation and Leisure
- Adult Education/Lifelong Learning
- Qualitative Research/Research Methodology
- Experiential Education
- Travel and Tourism
- Gerontology
- Guidance and Counselling

**Doc. PhDr. Dana Štěrbová, Ph.D.**

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- Sexuality and relationships in physical education and sport, and factors related to it
- Sexuality and relationships in physical education and sport, and factors related to it (including persons with disabilities)

**INSTITUTE OF ACTIVE LIFESTYLE, FACULTY OF PHYSICAL CULTURE,  
PALACKÝ UNIVERSITY OLOMOUC**

**Mgr. František Chmelík, Ph.D.**

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- Comparison of physical activity estimates of different physical activity monitors in free-living environment
- Physical activity assessment in specific populations

**Doc. Mgr. Erik Sigmund, Ph.D.**

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(HBSC Study)

- Health Behaviour of School Aged Children (HBSC) study
- Trends in behaviour among Czech adolescents in the context of school and family environment: HBSC study between the years 2002-2018
- Parent-child physical activity, sedentary behaviour and obesity

**DEPARTMENT OF RECREOLOGY, FACULTY OF PHYSICAL CULTURE,  
PALACKÝ UNIVERSITY OLOMOUC**

**Prof. PhDr. Ivo Jirásek, Ph.D.**

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- Barriers and obstacles to physical activities visible through mind maps  
(= empirical survey using mind mapping methods)
- Pain, suffering and death in adventure and risk sport (edgework)  
(= philosophical analysis, phenomenological approach)
- Religion and spirituality of sport and human movement  
(= theoretical and philosophical approach)
- Pilgrimage, tourism and participants' kind of physical and movement's spirituality  
(= empirical survey using interviews and interpretative phenomenological analysis)
- Bodily experience and human movement in experiential education  
(= content analysis of course designs, international comparison)

**DEPARTMENT OF ADAPTED PHYSICAL ACTIVITY, FACULTY OF PHYSICAL  
CULTURE, PALACKÝ UNIVERSITY OLOMOUC**

**Doc. Mgr. Martin Kudláček, Ph.D.**

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(Adapted Physical Activity)

- Competencies, self-efficacy and attitudes towards inclusive physical education
- Adapted physical activity and quality of life of persons with disabilities

**DEPARTMENT OF SPORT, FACULTY OF PHYSICAL CULTURE, PALACKÝ  
UNIVERSITY OLOMOUC**

**Doc. PaedDr. Michal Lehnert, Dr.**

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- Effects of different strength training programs on lower limb muscles strength and neuromuscular reaction time in young athletes (performance perspective and injury prevention perspective)
- Reliability of conventional and functional hamstring: Quadriceps (H/Q) ratios measurements on isokinetic dynamometer Isomed 2000