

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

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

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- Laboratory screening program of body response in relation to Acute Mountain Sickness development
- Relation between cardiac vagal control level and magnitude of the adaptation response to hypoxic training
- Effect of hydrogen-rich water on body response to exercise and during recovery
- Body response assessment to several stress factors via saliva analysis

**Doc. Mgr. Aleš Gába, Ph.D.**

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- Evaluation of combined effects of 24-hour lifestyle behaviors on childhood obesity using compositional data analysis

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

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- Effects of the visual stroboscopic training in sports or professional skills
- Visuomotor intervention based on the quiet eye method in children with ADHD
- Sensorimotor reactions as the neurocognitive markers for DCD and ADHD in children
- Revalidation of the Movement Assessment Battery for Children (MABC-2) Test in the Czech Republic

**Mgr. Zdeněk Svoboda, Ph.D.**

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- Assessment of running stability using non-traditional procedures

**DEPARTMENT OF SOCIAL SCIENCES IN KINANTHROPOLOGY, FACULTY OF PHYSICAL CULTURE,  
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**Doc. PhDr. Dana Štěřbová, Ph.D.**

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- Relationships and sexuality in Physical Education
- Sexuality and Relationships in Sport
- Stress and coping in sport

**INSTITUTE OF ACTIVE LIFESTYLE, FACULTY OF PHYSICAL CULTURE,  
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**Doc. Mgr. Roman Cuberek, Ph.D.**

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- Innovative methods and approaches to the physical activity assessment
- Physical fitness in the context of physical activity and environment in Czech children

**Prof. PhDr. Karel Frömel, DrSc.**

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- Structure of school physical activity in the different educational environment
- Association between preferences, types and intensity of adolescent physical activities
- Verification of recommendations for school physical activity

**Mgr. František Chmelík, Ph.D.**

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

**Doc. Mgr. Josef Mitáš, Ph.D.**

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- Verification of new devices for physical activity monitoring
- Complex monitoring of adolescents PA using the INDARES system
- Comprehensive monitoring of adolescents PA and environment using the INDARES system
- Evaluation of adolescents PA within the environment using objective environmental assessment tools (GPS, GIS, PALMS, MAPS)

**Doc. Mgr. Jana Pelclová, Ph.D.**

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- Longitudinal monitoring of physical activity and sedentary behaviour in relation to health
- Physical activity and sedentary behaviour in the context of built environment
- Movement behaviours in a 24 hour period and health in seniors

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

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(HSC Study)

- Trends and correlates of overweight/obesity in Czech adolescents in relation to family socioeconomic status over a 16-year study period (2002-2018)
- Temporal trends in physical activity and screen time among Czech adolescents from families with different socioeconomic status from 2002-2018
- Changes in dietary habits among Czech adolescents in relation to body weight over a 16-year study period (2002-2018)

- Evaluation of "Health Behaviour of School Aged Children" (HBSC) questionnaires supported by formal concept analysis
- Data visualization from HBSC questionnaires

**DEPARTMENT OF RECREOLOGY, FACULTY OF PHYSICAL CULTURE,  
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**Mgr. Zdeněk Hamřík, Ph.D.**

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- Leisure time activities in the context of the healthy development of school-aged children

**Prof. PhDr. Ivo Jirásek, Ph.D.**

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- Possibilities of exceeding the current paradigm struggle with obesity and sedentary behavior - transracial and spiritual techniques
- Religion, spirituality, sport
- Sources of meaning and meaning in life (after the end of sports career)

**DEPARTMENT OF ADAPTED PHYSICAL ACTIVITY, FACULTY OF PHYSICAL CULTURE,  
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**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
- Inclusive physical education

**DEPARTMENT OF SPORT, FACULTY OF PHYSICAL CULTURE,  
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**Doc. PaedDr. Michal Lehnert, Dr.**

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- The influence of fatigue during training cycles on injury risk mechanisms in youth athletes

**DEPARTMENT OF PHYSIOTHERAPY, FACULTY OF PHYSICAL CULTURE,  
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**Doc. Mgr. Kateřina Neumannová, Ph.D.**

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- The effect of chronic respiratory diseases on daily physical activities, activities of daily living, postural stability, exercise tolerance, symptoms and health-related quality of life
- The effect of pulmonary rehabilitation on daily physical activities, activities of daily living, postural stability, exercise tolerance, symptoms and health-related quality of life in patients with chronic respiratory diseases

**PhDr. David Smékal, Ph.D.**

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- The relationship between orthodontic care and origin of temporomandibular disorder in children and adults
- Effect of vibration on neuromuscular control in patients after knee injury

**Mgr. Michal Kudláček, Ph.D.**

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- Typology of leisure-time physical activities in context of lifestyle of particular population
- Structure and trends in leisure-time physical activities in selected population