

# University of Pécs Faculty of Health Sciences

## Programmes of the Doctoral School of Health Sciences September 2026

**Head of Doctoral School: Prof. Dr. Kiss, István MD., PhD., DSc.**

|                                   | Area of Study                                                                                                     | Name of Programmeleader / supervisor                                  |
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| <b>Programme<br/>Nr. 1 / PR-1</b> | <b>FRONTIERS OF HEALTH SCIENCES</b>                                                                               | <b>Prof. Dr. Kovács, L. Gábor programme<br/>leader</b>                |
| E-1                               | The effects of social differences on the health care system                                                       | Dr. Betlehem, József supervisor                                       |
| E-2                               | Role of simulated practical training in health care education                                                     | Dr. Betlehem, József supervisor                                       |
| E-3                               | Characteristics of medical provision for various types of catastrophic events                                     | Dr. Betlehem, József supervisor                                       |
| E-4                               | The context of health economics, quality assurance and performance monitoring in case of public health programmes | Dr. Boncz, Imre supervisor,<br>Dr. Gulácsi, László co-supervisor      |
| E-5                               | Financial questions of the health care system                                                                     | Dr. Boncz, Imre supervisor,<br>Dr. Varga, Zoltán co-supervisor        |
| E-7                               | Recreation - wellness - health condition                                                                          | Dr. Jeges, Sára supervisor                                            |
| E-8                               | System of values - quality of life - health condition                                                             | Dr. Jeges, Sára supervisor                                            |
| E-11                              | Fundamental questions in health care management                                                                   | Dr. Kovács, L. Gábor supervisor,<br>Dr. Boncz, Imre co-supervisor     |
| E-12                              | The health status of the population and social factors.                                                           | Dr. Lampek, Kinga supervisor                                          |
| E-15                              | Effects of working in three-shift system on biorhythm.                                                            | Dr. Oláh, András supervisor,<br>Dr. Ács, Pongrácz co-supervisor       |
| E-16                              | Linguistic aspects of health sciences                                                                             | Dr. Rébék-Nagy, Gábor supervisor,<br>Dr. Boronkai, Dóra co-supervisor |
| E-17                              | Socializing effects of school and family on pupils' lifestyle                                                     | Dr. Rétsági, Erzsébet supervisor                                      |
| E-18                              | Appearance of health related values among primary and secondary school pupils                                     | Dr. Rétsági, Erzsébet supervisor                                      |
| E-19                              | Study of recreational activities among various age groups, with special interest in their physical activity       | Dr. Rétsági, Erzsébet supervisor,<br>Dr. Ács, Pongrácz co-supervisor  |
| E-20                              | Epidemiological investigation of territorial health inequalities                                                  | Dr. Sándor, János supervisor                                          |
| E-21                              | Health status monitoring by secondary database utilization                                                        | Dr. Sándor, János supervisor                                          |

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| E-22 | Epidemiological investigation of the etiology, and the prevention's and health care services' quality for non-infectious diseases                  | Dr. Sándor, János supervisor                                                   |
| E-24 | Immune system and physical and mental health – the role of recreational sports in health preservation, and the parallel change of exertion ability | Dr. Wilhelm, Márta supervisor                                                  |
| E-27 | Special situations in emergency care                                                                                                               | Dr. Betlehem, József supervisor<br>Dr. Pandur, Attila András co-supervisor     |
| E-28 | Role of social support and activity in preserving and restore a good health condition                                                              | Dr. Betlehem, József supervisor,<br>Dr. Gerevich, József co-supervisor         |
| E-29 | Exercise induced muscle damage and adaptation mechanisms during long-term resistance training                                                      | Dr. Wilhelm, Márta supervisor,<br>Dr. Váczi, Márk co-supervisor                |
| E-30 | Neuromuscular adaptations to resistance training                                                                                                   | Dr. Wilhelm, Márta supervisor,<br>Dr. Váczi, Márk co-supervisor                |
| E-32 | The role of physical activity and sports in health improvement                                                                                     | Dr. Tóth, Ákos Levente supervisor                                              |
| E-33 | Health condition of Hungarian people with disabilities, and possible directions of development in terms of equal opportunities                     | Dr. Bódis, József supervisor,<br>Dr. Chronowski, Nóra co-supervisor            |
| E-35 | Integrative Medicine as a treatment for stress release of different origins                                                                        | Dr. Hegyi, Gabriella supervisor                                                |
| E-36 | Enhancement of fitness, reduction of stress-response , improving quality of Life by Integrative Medicine therapies                                 | Dr. Hegyi, Gabriella supervisor                                                |
| E-37 | Integrative Medicine: demand and acceptance, possibilities of inserting into Health Care System                                                    | Dr. Hegyi, Gabriella supervisor                                                |
| E-39 | International comparative examination of professional minimal conditions' to improve health care services                                          | Dr. Oláh, András supervisor                                                    |
| E-40 | Possibilities to improve nursing guidelines and protocols                                                                                          | Dr. Oláh, András supervisor                                                    |
| E-41 | Possibilities to improve nursing practice with respect to the international practice                                                               | Dr. Oláh, András supervisor                                                    |
| E-42 | Development and implementation of electronic nursing documentation                                                                                 | Dr. Oláh, András supervisor                                                    |
| E-43 | Psycho-neuro-immunology in clinical practice                                                                                                       | Dr. Repa, Imre supervisor                                                      |
| E-44 | Disability and quality of life                                                                                                                     | Dr. Pusztafalvi, Henriette supervisor,<br>Dr. Csókási, Krisztina co-supervisor |
| E-45 | Examination of the nonlinear distortion of the ear                                                                                                 | Dr. Pytel, József supervisor,<br>Dr. Lujber, László co-supervisor              |
| E-46 | Examination and treatment of motion instability in neurological diseases                                                                           | Dr. Nagy, Ferenc supervisor,<br>Dr. Kovács, Norbert co-supervisor              |
| E-48 | Health science aspects of free flap breast reconstruction                                                                                          | Dr. Kornya, László supervisor                                                  |
| E-49 | Comparison of surgical suture materials                                                                                                            | Dr. Kornya, László supervisor                                                  |
| E-50 | Comparison of breast reconstruction surgeries                                                                                                      | Dr. Kornya, László supervisor                                                  |
| E-51 | Role of communication in the health care system                                                                                                    | Dr. Pusztafalvi, Henriette supervisor                                          |
| E-56 | Social aspects of medical communication                                                                                                            | Dr. Lampék, Kinga supervisor,<br>Dr. Máté, Orsolya co-supervisor               |

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| E-57 | Salutogenesis in university education. Examination of shift of coherence among students of University of Pécs, Faculty of Health Sciences and Faculty of Sciences, depending on the study program | Dr. Jeges, Sára supervisor,<br>Dr. Tóth, Ákos co-supervisor                        |
| E-58 | The aspects of patients' right and labor law in health care                                                                                                                                       | Dr. Boncz, Imre supervisor,<br>Dr. Ágoston, István co-supervisor                   |
| E-59 | The current issues of the health capacity regulation and the resource allocations                                                                                                                 | Dr. Boncz, Imre supervisor,<br>Dr. Ágoston, István co-supervisor                   |
| E-60 | The current questions and examination of the sex education in the educational institutions                                                                                                        | Dr. Pusztafalvi, Henriette supervisor                                              |
| E-61 | Historical epidemiology studies                                                                                                                                                                   | Dr. Pusztafalvi, Henriette supervisor<br>Dr. Takács, Mária Zsuzsanna co-supervisor |
| E-62 | The effect of physical activity in different kind of neurodegenerative diseases: biomechanical and molecular biological studies                                                                   | Dr. Atlasz, Tamás supervisor,<br>Dr. Váczi, Márk co-supervisor                     |
| E-63 | Intercultural competences in healthcare                                                                                                                                                           | Dr. Németh Timea supervisor                                                        |
| E-64 | Prevalence of periodontal diseases among Hungarian population                                                                                                                                     | Dr. Radnai, Márta supervisor                                                       |
| E-65 | The change of the effectiveness of acute care due to integrative education                                                                                                                        | Dr. Betlehem, József supervisor,<br>Dr. Oláh, Tibor co-supervisor                  |
| E-66 | Decision making in the emergency care                                                                                                                                                             | Dr. Radnai, Balázs supervisor                                                      |
| E-67 | Analysis of one-day surgical utilization indicators                                                                                                                                               | Dr. Boncz, Imre supervisor,<br>Dr. Endrei, Dóra co-supervisor                      |
| E-68 | Role of animal-assisted therapy in the recreation                                                                                                                                                 | Dr. Tóth, Ákos Levente supervisor                                                  |
| E-69 | Utilization and health insurance indicators of outpatient physiotherapy activities                                                                                                                | Dr. Molics, Bálint supervisor,<br>Dr. Boncz, Imre co-supervisor                    |
| E-70 | The study of the correspondence of sense of coherence, parenting styles and health behavior                                                                                                       | Dr. Csima, Melinda supervisor,<br>Dr. Sipos, Dávid co-supervisor                   |
| E-71 | Health monitoring                                                                                                                                                                                 | Dr. Vitrai, József supervisor                                                      |
| E-72 | Research of integrated health care systems                                                                                                                                                        | Dr. Balogh, Sándor supervisor,<br>Dr. Papp, Renáta co-supervisor                   |
| E-73 | Patient rights, opportunities of patient rights enforcement in practice.                                                                                                                          | Dr. Endrei, Dóra supervisor,<br>Dr. Ágoston, István co-supervisor                  |
| E-74 | Human resource aspects of health care system at policy and institutional level                                                                                                                    | Dr. Endrei, Dóra supervisor,<br>Dr. Boncz, Imre co-supervisor                      |
| E-75 | Access to healthcare professionals work satisfaction and health status determining factors                                                                                                        | Dr. Lampek, Kinga supervisor                                                       |
| E-76 | Regional differences in quality of life                                                                                                                                                           | Dr. Takács Péter supervisor                                                        |
| E-77 | Health care and financial aspects of quality assurance                                                                                                                                            | Dr. Endrei Dóra supervisor,<br>Dr. Boncz, Imre co-supervisor                       |
| E-79 | Clinical and economic issues in health technology assessment                                                                                                                                      | Dr. Boncz, Imre supervisor,<br>Dr. Zemlényi, Antal co-supervisor                   |
| E-80 | Research about the preferences of partner choice and the factors that influence it                                                                                                                | Dr. Brantmüller, Éva supervisor,<br>Dr. Pakai, Annamária co-supervisor             |
| E-81 | The Practice of analytic chemical methods in the personal identification                                                                                                                          | Dr. Márk, László supervisor,<br>Dr. Wiegand, Norbert co-supervisor                 |

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| E-82  | Recovery from perinatal loss – Bereavement support                                                                        | Dr. Lampek, Kinga supervisor,<br>Dr. B. Erdős, Márta co-supervisor       |
| E-83  | The impact of migration on health care                                                                                    | Dr. Kobolka, István supervisor                                           |
| E-84  | The study of the correspondence of learning, learning outcomes and mental hygiene                                         | Dr. Deutsch, Krisztina supervisor                                        |
| E-85  | The study of the correspondence of sense of coherence, health behavior and health status in different occupational groups | Dr. Deutsch, Krisztina supervisor,<br>Dr. Kívés, Zsuzsanna co-supervisor |
| E-86  | Transformation of health sciences and science popularization in the digital age                                           | Dr. Csongor, Alexandra supervisor                                        |
| E-87  | Medical and Health Care Communication – Interdisciplinary approaches                                                      | Dr. Koppán, Ágnes supervisor                                             |
| E-88  | Interviewing strategies in the patient interview – language tools of assertive communication and empathy                  | Dr. Lepenye, Katalin supervisor                                          |
| E-89  | Functional-pragmatic analysis of encounters of health providers and patients                                              | Dr. Kőhalmi, Anikó supervisor,<br>Dr. Kráncz, Rita co-supervisor         |
| E-90  | The emergency and palliative care aspects of multimorbid or cancer patients                                               | Dr. Pozsgai, Éva supervisor                                              |
| E-91  | Impact of changes in the organisational structure of the Hungarian health care system on health institutions              | Dr. Balogh, Sándor supervisor,<br>Dr. Hegedűs, Mihály co-supervisor      |
| E-92  | Possibilities to improve nursing practice with respect to the international practice                                      | Dr. Oláh, András supervisor,<br>Dr. Zrínyi, Miklós co-supervisor         |
| E-93  | Mental illness and language use: diagnostic and therapeutic options                                                       | Dr. Kőhalmi, Anikó supervisor,<br>Dr. Herold, Róbert co-supervisor       |
| E-96  | Complex analyses of medical documentation                                                                                 | Dr. Fogarasi, Katalin supervisor,<br>Dr. Patonai, Zoltán co-supervisor   |
| E-97  | Narrative investigation of disease awareness                                                                              | Dr. Gyuró, Mónika supervisor                                             |
| E-98  | Use of virtual reality therapy in neurological patients                                                                   | Dr. Vajda, Zsolt supervisor,<br>Dr. Tollár, József co-supervisor         |
| E-99  | Quality of life of disadvantaged groups in terms of health status                                                         | Dr. Erdei, Renáta supervisor                                             |
| E-100 | Forms of palliative care and opportunities for improvement                                                                | Dr. Csikós, Ágnes supervisor                                             |
| E-101 | End-of-life wishes and decisions                                                                                          | Dr. Csikós, Ágnes supervisor                                             |
| E-102 | The effect of nurses' awareness of infection control measures on patient and family education                             | Dr. Kocsis, Béla supervisor                                              |
| E-103 | Examining the role of APRN in Hungarian and international context                                                         | Dr. Oláh, András supervisor,<br>Dr. Máté, Orsolya co-supervisor          |
| E-104 | The significance and communication of prevention and public health programs                                               | Dr. Máté, Orsolya supervisor                                             |
| E-105 | Assertivity, violation management and multiculturalism among                                                              | Dr. Máté, Orsolya supervisor                                             |

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| E-106 | Implementation of innovative technologies in health care                                                                                                                | Dr. Papp, Renáta supervisor                                              |
| E-107 | Career image and changes in nurses, impact of organisational culture on work stress and career leaving, intervention points and opportunities to maintain health status | Dr. Siket, Adrienn supervisor,<br>Dr. Máté, Orsolya co-supervisor        |
| E-108 | Impact of SARS-COV-2 pandemic of GP care                                                                                                                                | Dr. Balogh, Sándor supervisor                                            |
| E-111 | Examining generational characteristics in the field of health and sports sciences                                                                                       | Dr. Hideg, Gabriella supervisor                                          |
| E-112 | Survey of health behaviour and lifestyle habits of international students in colleague education                                                                        | Dr. Raposa, László Bence supervisor,<br>Dr. Zrínyi, Miklós co-supervisor |
| E-113 | Investigation of the effectiveness of animal therapy in health care                                                                                                     | Dr. Tollár, József supervisor,<br>Dr. Kovács, Árpád co-supervisor        |
| E-114 | Application of virtual reality, robotics and modern technological research / therapies in medicine                                                                      | Dr. Tollár, József supervisor                                            |
| E-115 | Language learning strategies, autonomous language learning and effective teaching techniques in languages for healthcare purposes.                                      | Dr. Hild, Gabriella supervisor                                           |
| E-117 | Opportunities and challenges of first aid education and socialization                                                                                                   | Dr. Bánfai, Bálint supervisor                                            |
| E-118 | The added value of integrative medicine for evidence-based medicine                                                                                                     | Dr. Szőke, Henrik supervisor                                             |
| E-119 | Evolution and evaluation of the health innovation ecosystem in the international and domestic environment                                                               | Dr. Zrínyi, Miklós supervisor,<br>Dr. Lampek, Kinga co-supervisor        |
| E-120 | Reform and Sustaining of Superannuation System in Hungary                                                                                                               | Dr. Varga, Zoltán supervisor                                             |
| E-121 | The role of the advanced practice nurse (APN) in the community of practice team in each client pathway                                                                  | Dr. Siket, Adrienn supervisor                                            |
| E-122 | Redefining nursing skills in AI and robotisation, with a particular focus on conditions requiring long-term care.                                                       | Dr. Siket, Adrienn supervisor                                            |
| E-124 | Microbiological examination of nosocomial infections and their association with the use of nursing devices                                                              | Dr. Takács, Krisztina supervisor                                         |
| E-125 | New directions of health promotion                                                                                                                                      | Dr. Vitrai, József supervisor                                            |
| E-126 | Importance of pedagogical skills in medical education: Teaching and learning behaviors of teachers and undergraduate medical students in Hungary.                       | Dr. Ternák, Gábor supervisor                                             |
| E-127 | Investigation of the extent of root resorption subjected to lingual and buccal jiggling movements                                                                       | Dr. Frank, Dorottya supervisor                                           |
| E-128 | The effects of verbal and physical abuse on the complex state of health, its somatic manifestations in the young adult population                                       | Dr. Beke, Szilvia supervisor                                             |
| E-129 | Short- and long-term effects of COVID-19 infection on taste perception and food preference                                                                              | Dr. Raposa, László Bence supervisor                                      |
| E-130 | Public health aspects of iron metabolism                                                                                                                                | Dr. Egyed, Miklós supervisor                                             |

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| E-131 | Efficiency of health insurance systems based on real-world & big data                                                                                                         | Dr. Boncz, Imre supervisor                                                        |
| E-134 | The role of prevention and rehabilitation in aesthetic sports, the identification of typical injury profiles in sports and their physical and psychological impacts on health | Dr. Bobály, Viktória supervisor,<br>Dr. Csenki, Laura co-supervisor               |
| E-135 | Health prevention in digital age                                                                                                                                              | Dr. Figler, Mária supervisor<br>Dr. Szabó, Zsolt Roland co-supervisor             |
| E-136 | The role of health literacy in the effectiveness of nurse led patient education program                                                                                       | Dr. Betlehem, József supervisor                                                   |
| E-139 | Preservation of mental health in changing workplace communities                                                                                                               | Dr. Csimá, Melinda supervisor,<br>Dr. Sipos Dávid co-supervisor                   |
| E-140 | The role and importance of health and health policy in the operation of employee and company welfare /well-being systems                                                      | Dr. Juhász, Gábor supervisor                                                      |
| E-141 | Supportive communication in health science texts                                                                                                                              | Dr. Máty, Dániel supervisor                                                       |
| E-142 | Implementing infection control in practice: measuring hand hygiene compliance and following a central venous catheter (CVC) care protocol in a county hospital                | Dr. Zrínyi Miklós supervisor,<br>Dr. Pusztafalvi Henriette co-supervisor          |
| E-143 | Examination of the consumption of traditional psychoactive substances by people living in segregated areas                                                                    | Dr. Csimá, Melinda supervisor                                                     |
| E-144 | Application of modern teaching methods and tools for learning motivation and experience                                                                                       | Dr. Radnai, Balázs supervisor<br>Dr. Keresztélyné Dr. Barta, Andrea co-supervisor |
| E-145 | The effect of burnout syndrome and post-traumatic stress syndrome on self-assessment of health status among emergency and emergency workers in Hungary                        | Dr. Pakai, Annamária supervisor                                                   |
| E-146 | Possibilities and challenges of developing health understanding in our everyday life                                                                                          | Dr. Bánfai-Csonka, Henrietta supervisor                                           |
| E-147 | The multidimensional study of parental burnout syndrome in Hungary                                                                                                            | Dr. Pakai, Annamária supervisor                                                   |
| E-148 | Opportunities for mental support within the healthcare provider team, burnout prevention.                                                                                     | Dr. Zelena, András supervisor                                                     |
| E-150 | Nursing Informatics Competency Self-Assessment Scale (SANICS) Translation, Adaptation, and Validation in the Context of Hungary, and Survey Among College Nursing Students    | Dr. Máté, Orsolya supervisor                                                      |
| E-152 | Multidisciplinary management of tinnitus                                                                                                                                      | Dr. Molnár, András supervisor                                                     |
| E-154 | Determinants of Treatment Adherence and Quality of Life After Kidney Transplantation in Oman: A Cross-Sectional Study                                                         | Dr. Csiky, Botond supervisor<br>Dr. Waleed Khalid AlRajhi co-supervisor           |
| E-155 | Application of Smart Technologies in Healthcare for Patient Monitoring, Clinical Decision Support and Healthcare Delivery                                                     | Dr. Betlehem, József supervisor<br>Dr. Pandur, Attila András co-supervisor        |
| E-157 | Psychological well-being in elderly                                                                                                                                           | Dr. Csókási, Krisztina supervisor<br>Dr. Deák, Anita co-supervisor                |
| E-158 | Planning for a Good Death: Advance Care Planning                                                                                                                              | Dr. Busa, Csilla supervisor<br>Dr. Csikós, Ágnes co-supervisor                    |

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| E-159                             | Presence of Pseudomonas aeruginosa in Healthcare Facility Water Systems: Control and Eradication Strategies                           | Dr. Kocsis, Béla supervisor                                          |
| E-160                             | Investigation of the Composition and Antimicrobial Activity of Hungarian Honey                                                        | Dr. Stromájer, Tímea supervisor                                      |
| <b>Programme<br/>Nr. 2 / PR-2</b> | <b>CARDIOVASCULAR HEALTH SCIENCE</b>                                                                                                  | <b>Prof. Dr. Verzár, Zsófia programme leader</b>                     |
| K-1                               | Preventive methods for cardio-, and cerebrovascular diseases                                                                          | Dr. Cziráki, Attila supervisor,<br>Dr. Verzár, Zsófia co-supervisor  |
| K-3                               | Effects of meteorological factors on cardio-, and cerebrovascular diseases                                                            | Dr. Verzár, Zsófia supervisor,<br>Dr. Pakai, Annamária co-supervisor |
| K-5                               | Endothel function and cardiovascular disease                                                                                          | Dr. Bódis, József supervisor                                         |
| K-6                               | The effect of stress on health conditions (with a focus on work-related stress)                                                       | Dr. Vattay, Péter supervisor                                         |
| K-8                               | Challenge of the 21st century: the human papillomavirus                                                                               | Dr. Bódis, József supervisor                                         |
| K-9                               | Effect of climate factors on seasonal diseases                                                                                        | Dr. Verzár, Zsófia supervisor                                        |
| K-11                              | Preventive methods in tumour diseases                                                                                                 | Dr. Kásler, Miklós supervisor                                        |
| K-12                              | Prevention methods for vascular and cardiovascular diseases                                                                           | Dr. Arató, Endre supervisor                                          |
| K-13                              | Individual and community factors of health status and health inequalities                                                             | Dr. Füzesi, Zsuzsanna supervisor                                     |
| K-14                              | The importance of the effects of co-morbidities in acute patient care                                                                 | Dr. Oláh, Tibor supervisor,<br>Dr. Betlehem, József co-supervisor    |
| K-15                              | Analysis of publicly and privately financed health care services                                                                      | Dr. Sebestyén, Andor supervisor                                      |
| K-16                              | Genetical, gene expressional background connection with lifestyle and occupational factors in cardiovascular diseases                 | Dr. Verzár, Zsófia supervisor                                        |
| K-17                              | The role of arterial stiffness in cardiovascular prevention and risk evaluation                                                       | Dr. Arató, Endre supervisor                                          |
| K-18                              | Monitoring of cardiovascular effects of legal and illegal drugs focusing on designer drugs                                            | Dr. Verzár, Zsófia supervisor,<br>Dr. Pakai, Annamária co-supervisor |
| K-19                              | Quality of life measurement and its implication in developing modern therapeutic strategies in non ST elevation myocardial infarction | Dr. Verzár, Zsófia supervisor                                        |
| K-20                              | Care and primary and secondary prevention of cardio-cerebrovascular diseases                                                          | Dr. Balogh, Sándor supervisor,<br>Dr. Sipke, Csilla co-supervisor    |
| K-21                              | The role of endovascular interventions in the improvement of the quality of life in patients with vascular disease                    | Dr. Vajda, Zsolt supervisor,<br>Dr. Nagy, Ferenc co-supervisor       |
| K-22                              | Improving quality of life in patients with neurovascular and peripheral vascular diseases                                             | Dr. Vajda, Zsolt supervisor,<br>Dr. Nagy, Ferenc co-supervisor       |
| K-23                              | Medical, legal and social aspects of end-of-life decisions                                                                            | Dr. Verzár, Zsófia supervisor,<br>Dr. Dávid, Bánya co-supervisor     |

| <b>Programme<br/>Nr. 3 / PR-3</b> | <b>TREATMENT OF LOCOMOTOR DISORDERS</b>                                                                                                         | <b>Prof. Dr. Kráncz, János<br/>programme leader</b>                       |
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| M-1                               | Prevention, possibilities of care and effects on quality of life of congenital deformity of lower limbs                                         | Dr. Kráncz, János supervisor,<br>Dr. Pusztafalvi, Henriette co-supervisor |
| M-2                               | Connection between obesity and the clinical picture of locomotive disorders, and their possible treatments                                      | Dr. Kráncz, János supervisor,<br>Dr. Hock, Márta co-supervisor            |
| M-4                               | Biomechanical, biochemical, epidemiological and pathophysiological aspects of prevention of infantile and adult spine diseases                  | Dr. Kráncz, János supervisor                                              |
| M-5                               | Possible primary, secondary and tertiary prevention of osteoporosis in healthy people and in diseases of organs responsible for bone metabolism | Dr. Kráncz, János supervisor                                              |
| M-6                               | Examination of muscle- and trunk balance and body composition in the age group of 10-25-year-olds, and the primary prevention of osteoporosis   | Dr. Kráncz, János supervisor                                              |
| M-7                               | Analysis of the shoulder's kinesiology, biomechanics and pathology with ZEBRIS CMS-HS ultrasound-based spatial motion monitoring                | Dr. Kráncz, János supervisor                                              |
| M-8                               | Examination of factors affecting the efficiency of radiosynoviorthesis                                                                          | Dr. Szentesi, Margit supervisor                                           |
| M-10                              | Connection between the biological risk, the local activity of joints, and the efficiency of radiosynoviorthesis                                 | Dr. Szentesi, Margit supervisor,<br>Dr. Ritter, Zsombor co-supervisor     |
| M-11                              | Efficiency of radiosynoviorthesis in case of chronic synovitis of rheumatoid arthritis                                                          | Dr. Szentesi, Margit supervisor                                           |
| M-12                              | Follow up study of gene expression in rheumatological diseases                                                                                  | Dr. Langmár, Zoltán supervisor                                            |
| M-13                              | Role of the ultrasound examination in the diagnosis prior to radiosynoviorthesis and in evaluating the efficacy of treatment                    | Dr. Szentesi, Margit supervisor                                           |
| M-14                              | The role of biological therapy in treatment of inflammatory rheumatologic disease                                                               | Dr. Szentesi, Margit supervisor                                           |
| M-15                              | Biological therapy as a revolutionary new way to improve clinical symptoms and quality of life of children with JIA                             | Dr. Szentesi, Margit supervisor                                           |
| M-16                              | Epidemiology of hip fractures                                                                                                                   | Dr. Sebestyén, Andor supervisor                                           |
| M-17                              | Relationship between functional asymmetry and injuries among sportsmen                                                                          | Dr. Wilhelm, Márta supervisor,<br>Dr. Váczi, Márk co-supervisor           |
| M-18                              | Aspects of thyroid disease in health sciences, with a focus on pathological mutation, prevention and treatment of organs of locomotion          | Dr. Gáti, István supervisor                                               |
| M-19                              | Aspects of prostate tumours in health sciences, with a focus on multimuscular changes, their prevention and treatment                           | Dr. Gáti, István supervisor                                               |
| M-20                              | Evaluation of weight shifting abilities in patients with stroke                                                                                 | Dr. Kráncz, János supervisor                                              |
| M-22                              | The use of the climbing wall by the children's rehabilitation                                                                                   | Dr. Kráncz, János supervisor,<br>Dr. Járomi, Melinda co-supervisor        |
| M-23                              | Impact of movement disorders on quality of life                                                                                                 | Dr. Kovács, Norbert supervisor                                            |
| M-24                              | Effects of modern technical devices and sedentary lifestyle on the neuromuscular system                                                         | Dr. Császár, Gabriella supervisor                                         |



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| M-25                              | Examination of the physical activity and physiotherapy treatment options for postmenopausal women and elderly patients, as well as their care  | Dr. Hock, Márta supervisor,<br>Dr. Prémusz, Viktória co-supervisor      |
| <b>Programme<br/>Nr. 4 / PR-4</b> | <b>PERINATAL HEALTH SCIENCE</b>                                                                                                                | <b>Prof. Dr. Bódis, József<br/>programme leader</b>                     |
| P-2                               | Epidemiology of congenital anomalies                                                                                                           | Dr. Sándor, János supervisor                                            |
| P-3                               | Low birthweight: epidemiological, sociological, pathophysiological and clinical consideration                                                  | Dr. Bódis, József supervisor                                            |
| P-4                               | The importance of low birthweight in the development of adult diseases                                                                         | Dr. Bódis, József supervisor                                            |
| P-5                               | Modern aspects of infants' feeding                                                                                                             | Dr. Bódis, József supervisor                                            |
| P-6                               | Water and electrolyte metabolism in the neonate: renal and endocrine regulation                                                                | Dr. Bódis, József supervisor                                            |
| P-7                               | Primary and secondary prevention of perinatal hypoxic brain injury (epidemiology, neurohabilitation, early developmental programs)             | Dr. Bódis, József supervisor                                            |
| P-8                               | The importance of smoking in perinatal, infant and childhood morbidities                                                                       | Dr. Bódis, József supervisor                                            |
| P-9                               | Clinical significance of hormones derived from adipocyte and skeletal tissues                                                                  | Dr. Bódis, József supervisor                                            |
| P-10                              | The importance of novel hormones, hormone-like substances in the perinatal adaptation                                                          | Dr. Bódis, József supervisor                                            |
| P-11                              | Correlations among vitamin D supply, circulating forms of parathormone and serum protein fractions in patients with renal failure              | Dr. Toldy, Erzsébet supervisor,<br>Dr. Kálmán, Bernadette co-supervisor |
| P-12                              | Risk of the mechanism behind accelerated arteriosclerosis in case of patients with uremic hemodialysis                                         | Dr. Csiky, Botond supervisor                                            |
| P-13                              | Understanding the complex physiological and psychological changes in children with cow milk protein allergy                                    | Dr. Tóth, Gergely Péter supervisor                                      |
| P-15                              | Quality of life of children with hydrocephalus and ventriculoperitoneal shunt                                                                  | Dr. Hollódy, Katalin supervisor                                         |
| P-16                              | The importance of understanding fetal competencies in the prenatal period for Mother-Infant relationship and communication                     | Dr. Zelena, András supervisor                                           |
| P-17                              | Application of the Alberta Infant Motor Scale among Children in the South-Transdanubian Region                                                 | Dr. Hadzsiev, Kinga supervisor<br>Dr. Till, Ágnes co-supervisor         |
| <b>Programme<br/>Nr. 5 / PR-5</b> | <b>HUMAN REPRODUCTION</b>                                                                                                                      | <b>Prof. Dr. Bódis, József<br/>programme leader</b>                     |
| R-1                               | The effects of maternal illnesses and pharmacological therapies on pregnancy outcome                                                           | Dr. Ács, Nándor supervisor                                              |
| R-2                               | Suicides, and suicide attempts in Hungary                                                                                                      | Dr. Döme, Péter supervisor                                              |
| R-3                               | Short- and long-term consequences of obstetric and gynecological interventions on life-style, and the possibilities to influence these effects | Dr. Bódis, József supervisor,<br>Dr. Koppán, Miklós co-supervisor       |

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| R-4  | Cumulation, and familial-genetical background of gynecological-, breast-, and gastrointestinal tumors                                                                                                                        | Dr. Bódis, József supervisor                                          |
| R-5  | Survival and quality of life of patients with gynecological tumor after expanded and minimally invasive surgery                                                                                                              | Dr. Bódis, József supervisor,<br>Dr. Papp, Szilárd co-supervisor      |
| R-6  | Ovarian hyperstimulation                                                                                                                                                                                                     | Dr. Bódis, József supervisor                                          |
| R-7  | Effects of gynecological surgery on life-style and quality of life. The effect of preoperative preparation and postoperative physiotherapy on stool- and urine continence, and on the quality of sexual life                 | Dr. Bódis, József supervisor,<br>Dr. Hock, Márta co-supervisor        |
| R-8  | Phytoestrogens, hormon replacement, life-style and dietetic customs in peri- and postmenopause                                                                                                                               | Dr. Garai, János supervisor<br>Dr. Szabó, Zoltán co-supervisor        |
| R-9  | Vitamin-, iron- and trace element supplementation and dietetics in prenatal care; and it's perinatal role significance                                                                                                       | Dr. Koppán, Miklós supervisor                                         |
| R-10 | Intraovarian regulation - endocrine aspects of in vitro fertilization                                                                                                                                                        | Dr. Koppán, Miklós supervisor                                         |
| R-15 | Crimes against medical interventions, practice of medical research and patient's self-determination from point of view of forensic science and criminal procedure law                                                        | Dr. Bódis, József supervisor,<br>Dr. Herke, Csongor co-supervisor     |
| R-16 | The role of connective tissue system in the recognition of complementary-alternative medicine, naturopathy, and traditional chinese medicine; and in the integration of other scientific fields neighbouring health sciences | Dr. Gáti, István supervisor                                           |
| R-17 | The legal status of the embryo, in terms of stemcell research and human rights                                                                                                                                               | Dr. Bódis, József supervisor,<br>Dr. Zeller, Judit co-supervisor      |
| R-18 | Effects of endometriosis on quality of life                                                                                                                                                                                  | Dr. Koppán, Miklós supervisor,<br>Dr. Koppán, Ágnes co-supervisor     |
| R-19 | Examination of etiological factors of fetal developmental anomalies                                                                                                                                                          | Dr. Ács, Nándor supervisor                                            |
| R-20 | Endocrine-metabolic treatment of women with polycystic ovarium syndrome unrelated to infertility                                                                                                                             | Dr. Bódis, József supervisor,<br>Dr. Bajnok, László co-supervisor     |
| R-21 | Reproductive health behaviour of the Hungarian roma minority                                                                                                                                                                 | Dr. Horváth, Boldizsár supervisor                                     |
| R-22 | Complementer analysis of corps identification processes                                                                                                                                                                      | Dr. Bódis, József supervisor,<br>Dr. Herke, Csongor co-supervisor     |
| R-23 | Intrapartum analysis of the fetal electrocardiogram (fECG) with STAN® SR31 fetal monitor system in case of meconium tainted amniotic fluid                                                                                   | Dr. Bódis, József supervisor,<br>Dr. Farkas, Bálint co-supervisor     |
| R-24 | The genetic components of the etiology of chronic diseases, congenital malformations and diseases in pregnancy                                                                                                               | Dr. Joó, József Gábor supervisor,<br>Dr. Kornya, László co-supervisor |
| R-26 | Demographic factors influence the occurrence of fetal malformations                                                                                                                                                          | Dr. Veszprémi, Béla supervisor                                        |
| R-27 | Pre and Postnatal Quality of Life and Fear of Childbirth                                                                                                                                                                     | Dr. Várnagy, Ákos supervisor,<br>Dr. Varga, Katalin co-supervisor     |
| R-28 | Biochemical and biological analysis of the peritoneal fluid in ovarian hyperstimulation syndrome (OHSS)                                                                                                                      | Dr. Farkas, Bálint supervisor                                         |
| R-29 | The investigation of the pelvic floor muscle training effectiveness for urinary and fecal continence and the quality of sexual life                                                                                          | Dr. Bódis, József supervisor,<br>Dr. Surányi, Andrea co-supervisor    |

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| R-30                              | Child sexual abuse in Szabolcs-Szatmár-Bereg Country in Hungary                                                           | Dr. Csorba, Roland supervisor                                         |
| R-31                              | Prevalence and treatment options for muscle, bone and joint problems during pregnancy or delivery and after birth         | Dr. Hock, Márta supervisor                                            |
| R-32                              | Vaginal birth after cesarean section                                                                                      | Dr. Veszprémi, Béla supervisor                                        |
| R-33                              | Quality of life of pregnant women in terms of health status and health behavior                                           | Dr. Erdei, Renáta supervisor                                          |
| R-34                              | Investigating the non-surgical and the surgical treatment of pelvic organ prolapse and female urinary incontinence        | Dr. Farkas, Bálint supervisor,<br>Dr. Németh, Zoltán co-supervisor    |
| R-35                              | Morphological analysis of cellular elements involved in reproduction in pathological conditions                           | Dr. Kovács, Kálmán supervisor,<br>Dr. Nagy, Bernadett co-supervisor   |
| R-36                              | Regional differences in infertility care by socio-demographic aspects                                                     | Dr. Kovács, Kálmán supervisor,<br>Dr. Prémusz, Viktória co-supervisor |
| R-37                              | The possible role of the microbiota of the female genital tract in the successful outcome of in vitro fertilization (IVF) | Dr. Kovács, Kálmán supervisor                                         |
| R-39                              | Increasing the efficiency of in vitro fertilization (IVF) laboratory workflows and procedures                             | Dr. Bódis, József supervisor<br>Dr. Kovács, Kálmán co-supervisor      |
| R-40                              | Medical diagnosis, medical and legal aspects of child sexual abuse                                                        | Dr. Csorba, Roland supervisor                                         |
| R-41                              | Uterine transplantation                                                                                                   | Dr. Farkas, Bálint supervisor,<br>Dr. Fazekas, Gábor co-supervisor    |
| R-42                              | The global public health significance of reproductive health and infertility                                              | Dr. Prémusz, Viktória co-supervisor                                   |
| R-43                              | Follicular fluid biomarkers and their role in IVF success                                                                 | Dr. Kovács, Kálmán supervisor<br>Dr. Mauchart, Péter co-supervisor    |
| R-44                              | The evaluation of various factors influencing the efficacy of frozen embryo transfer treatments                           | Dr. Péter, Kovács supervisor<br>Dr. Kálmán, Kovács co-supervisor      |
| R-45                              | Potential of telemedical home monitoring in obstetrical practice                                                          | Dr. Bódis, József supervisor<br>Dr. Török, Miklós co-supervisor       |
| R-46                              | The Role of Lifestyle and Mental Health in Reproductive Health: A Public Health Perspective                               | Dr. Prémusz, Viktória supervisor                                      |
| <b>Programme<br/>Nr. 6 / PR-6</b> | <b>ONCOLOGY - HEALTH SCIENCES</b>                                                                                         | <b>Prof. Dr. Kiss, István<br/>programme leader</b>                    |
| <b>PR-6/1</b>                     | <b>PREVENTIVE ONCOLOGY<br/>Subprogramme</b>                                                                               | <b>Prof. Dr. Kiss, István<br/>subprogramme leader</b>                 |
| O-3                               | Efficiency of the most modern methods in radiation therapy in the patients of University of Pécs, Medical School          | Dr. Mangel, László supervisor,<br>Dr. Boronkai, Árpád co-supervisor   |
| O-4                               | Historical demography of Hungary                                                                                          | Dr. Kiss, István supervisor                                           |
| O-5                               | Environmental carcinogenesis                                                                                              | Dr. Kiss, István supervisor                                           |
| O-6                               | Nutrition and cancer                                                                                                      | Dr. Kiss, István supervisor                                           |

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| O-7  | Molecular epidemiology of cancer                                                                                      | Dr. Kiss, István supervisor,<br>Dr. Jung, János co-supervisor      |
| O-8  | Public health problems and programs with respects to helth insurance and health economy                               | Dr. Boncz, Imre supervisor,<br>Dr. Vajda, Réka co-supervisor       |
| O-11 | Primary secondary and tertiary prevention in cancer                                                                   | Dr. Kiss, István supervisor                                        |
| O-12 | Genetical and genomical epidemiology                                                                                  | Dr. Kiss, István supervisor                                        |
| O-14 | Chemoprevention of cancer                                                                                             | Dr. Kiss, István supervisor                                        |
| O-17 | Alternative ways in cancer prevention                                                                                 | Dr. Kiss, István supervisor                                        |
| O-21 | Analysis of factors improving the diagnosing, perioperative and oncologic treatment of patients with colon cancer     | Dr. Oláh, Tibor supervisor,<br>Dr. Boronkai, Árpád co-supervisor   |
| O-22 | Role of Micro RNAs in carcinogenesis and prevention                                                                   | Dr. Kiss, István supervisor                                        |
| O-23 | Extended surgeries of head and neck cancers, and their surgical reconstructions                                       | Dr. Kásler, Miklós supervisor                                      |
| O-24 | Radiochemotherapy of head and neck cancer                                                                             | Dr. Kásler, Miklós supervisor                                      |
| O-25 | Laser surgery of head and neck cancer                                                                                 | Dr. Kásler, Miklós supervisor                                      |
| O-26 | Practice and opportunities of prevention in the General Practitioners' routine                                        | Dr. Balogh, Sándor supervisor                                      |
| O-30 | Nutritional status and diatery habits of homeless people                                                              | Dr. Rákosy, Zsuzsa supervisor                                      |
| O-32 | Evolution of inhaled drug delivery                                                                                    | Dr. Elekes, Krisztián supervisor                                   |
| O-33 | Rehabilitation in Cancer Care                                                                                         | Dr. Szalai, Márta supervisor                                       |
| O-34 | Molecular epidemiological and epigenetical examination of artificial food colourants in animal experiment test system | Dr. Kiss, István supervisor,<br>Dr. Figler, Mária co-supervisor    |
| O-35 | Expression and Function of Erythropoietin Receptor (EpoR) Variant Forms in Human Breast Cancer                        | Dr. Rákosy, Zsuzsa supervisor                                      |
| O-36 | Multidisciplinary teamwork in hospice-palliative care                                                                 | Dr. Csikós, Ágnes supervisor                                       |
| O-37 | Diagnostic and treatment of malignant tumors                                                                          | Dr. Kásler, Miklós supervisor                                      |
| O-38 | Assesment of Medical Waste Management Practice: A Case Study                                                          | Dr. Kiss, István supervisor,<br>Dr. Tibold, Antal co-supervisor    |
| O-39 | Molecular epidemiological examination of food additives and plant-origin bioactive substances                         | Dr. Varjas, Tímea supervisor                                       |
| O-40 | Investigation of predictive biomarkers in tumors                                                                      | Dr. Bellyei, Szabolcs supervisor                                   |
| O-41 | Diagnosis and treatment of solid abdominal malignancies and actualities in the field of organ transplantation         | Dr. Káposztás, Zsolt supervisor<br>Dr. Biró, Adrienn co-supervisor |

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| O-42          | Microbiom composition and the pathogenesis of colorectal cancer patients                                                                                        | Dr. Raposa, László Bence supervisor,<br>Dr. Káposztás, Zsolt co-supervisor |
| O-44          | Surgical treatment of Thoracic Disorders                                                                                                                        | Dr. Szántó, Zalán supervisor                                               |
| O-45          | Public health implications of myeloproliferative neoplasms                                                                                                      | Dr. Egyed, Miklós supervisor                                               |
| O-46          | The effect of early, intensive mobilization in the prevention of complications after acute abdominal surgeries                                                  | Dr. Biró, Adrienn supervisor,<br>Dr. Tollár, József co-supervisor          |
| O-48          | Epidemiology and treatment of alveolar echinococcosis                                                                                                           | Dr. Biró, Adrienn supervisor,<br>Dr. Káposztás, József co-supervisor       |
| O-49          | Prognostic Impact of biomarkers in relapsed/refractory multiple myeloma: comparative analysis of CD antigens, genetic mutations, and laboratory characteristics | Dr. Hussain Alizadeh supervisor,<br>Dr. Asaad, Aras co-supervisor          |
| O-50          | Investigation of Tumor Xenograft Models Implanted into Zebrafish Larvae                                                                                         | Dr. Budán, Ferenc supervisor                                               |
| O-51          | Investigation of the Epileptiform Seizure-Inducing Effects of Food Additives in Zebrafish Larval Model                                                          | Dr. Budán, Ferenc supervisor                                               |
| O-52          | Development and evaluation of anticancer nutrition: an experimental approach                                                                                    | Dr. Wamidh H. Talib supervisor                                             |
| O-53          | Comprehensive Investigation of Bioactive Components of Medicinal Mushroom Preparations and Evaluation of Their Metabolic Relevance                              | Dr. Dergez, Tímea supervisor<br>Dr. Raposa, L. Bence co-supervisor         |
| <b>PR-6/2</b> | <b>DIAGNOSTIC MEDICAL IMAGING</b><br>Subprogramme                                                                                                               | <b>Prof. Dr. Bogner, Péter</b><br>subprogramme leader                      |
| O-2-5         | Non-invasive examination of the cardiovascular system – CT, MR, angiography                                                                                     | Dr. Kovács, Árpád supervisor,<br>Dr. Bajzik, Gábor co-supervisor           |
| O-2-6         | Development of CT and MR guided diagnostic and therapeutic interventional procedures                                                                            | Dr. Repa, Imre supervisor                                                  |
| O-2-7         | Application of modern image processing methods in diagnostic imaging and radiotherapy                                                                           | Dr. Repa, Imre supervisor,<br>Dr. Kovács, Árpád co-supervisor              |
| O-2-8         | Significance of molecular and multimodality imaging in the diagnosis, prognosis and follow up of therapy in lymphoma patients                                   | Dr. Ritter, Zsombor supervisor,<br>Dr. Alizadeh Hussain co-supervisor      |
| O-2-10        | The integration of functional cross-sectional imaging in 3D conformal radiation therapy of brain tumors                                                         | Dr. Kovács, Árpád supervisor                                               |
| O-2-12        | Experimental and clinical applications of quantitative MR imaging techniques                                                                                    | Dr. Repa, Imre supervisor,<br>Dr. Bajzik, Gábor co-supervisor              |
| O-2-13        | Modern imaging techniques, the role of CT/MR imaging in the detection of breast cancer                                                                          | Dr. Repa, Imre supervisor,<br>Dr. Bajzik, Gábor co-supervisor              |
| O-2-14        | Mass spectrometry analysis of endocrine metabolom system                                                                                                        | Dr. Koppán, Miklós supervisor,<br>Dr. Márk, László co-supervisor           |

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| O-2-15        | Use of imaging methods based on mass spectrometry in health sciences                                                                                   | Dr. Márk, László supervisor                                            |
| O-2-16        | Mapping and monitoring of xenobiotics induced molecular changes by imaging techniques                                                                  | Dr. Pirger, Zsolt supervisor                                           |
| O-2-17        | Application of modern imaging methods in the field of reconstruction, aesthetic and plastic surgery                                                    | Dr. Bajzik, Gábor supervisor,<br>Dr. Ferenczy, József co-supervisor    |
| O-2-19        | Improvement of the quality of life in epileptic and stroke patients using postprocessing methods in neuroradiology                                     | Dr. Vajda, Zsolt supervisor,<br>Dr. Nagy, Ferenc co-supervisor         |
| O-2-20        | Application of multimodality imaging diagnostic systems in clinical practice                                                                           | Dr. Kovács, Árpád supervisor,<br>Dr. Repa, Imre co-supervisor          |
| O-2-21        | The role of 3D imaging in oncology pathways                                                                                                            | Dr. Kovács, Árpád supervisor,<br>Dr. Repa, Imre co-supervisor          |
| O-2-22        | PET/CT and PET/MR based treatment modalities in the modern oncology                                                                                    | Dr. Kovács, Árpád supervisor,<br>Dr. Cselik, Zsolt co-supervisor       |
| O-2-23        | The importance of hybrid imaging in receptor scintigraphies                                                                                            | Dr. Ritter, Zsolt supervisor                                           |
| O-2-24        | High dose radiotherapy procedures requiring precision, multimodal imaging                                                                              | Dr. Kovács, Árpád supervisor,<br>Dr. Lakosi, Ferenc co-supervisor      |
| O-2-25        | Investigation of mechanical changes in the brain by transcranial doppler (TDC) and radiological imaging                                                | Dr. Vajda, Zsolt supervisor,<br>Dr. Tollár, József co-supervisor       |
| O-2-26        | Defects, examinations and effects of the posterior circulatory system of the brain on the body and motor and non-motor functions                       | Dr. Vajda, Zsolt supervisor,<br>Dr. Tollár, József co-supervisor       |
| O-2-27        | Detection of central and peripheral defects, pain in patients undergoing oral and maxillofacial surgery and head and neck surgery                      | Dr. Vajda, Zsolt supervisor,<br>Dr. Tollár, József co-supervisor       |
| O-2-28        | The use of diffusion, perfusion and functional imaging in extracranial or intracranial regions                                                         | Dr. Kovács, Árpád supervisor,<br>Dr. Nagy, Szilvia Anett co-supervisor |
| O-2-29        | Examination of dizziness and headaches using imaging studies                                                                                           | Dr. Tollár, József supervisor                                          |
| O-2-30        | Modern imaging techniques in the field of nuclear medicine                                                                                             | Dr. Ritter, Zsombor supervisor,<br>Dr. Sipos, Dávid co-supervisor      |
| O-2-31        | The role of molecular imaging techniques in the diagnostic evaluation and therapeutic planning of solid tumors                                         | Dr. Ritter, Zsombor supervisor                                         |
| O-2-32        | Multimodal, molecular imaging for the assessment of myocardial perfusion and viability                                                                 | Dr. Ritter, Zsombor supervisor                                         |
| <b>PR-6/3</b> | <b>GASTROENTEROLOGICAL DISEASES<br/>Subprogramme</b>                                                                                                   | <b>Prof. Dr. Döbrönte, Zoltán<br/>subprogramme leader</b>              |
| O-3-1         | Gastroenterological endoscopic diagnostic and therapeutic procedures                                                                                   | Dr. Döbrönte, Zoltán supervisor                                        |
| O-3-3         | The role of the clinical laboratory in the primary and secondary prevention of diabetes mellitus                                                       | Dr. Kovács, L. Gábor supervisor,<br>Dr. Fodor, Lajos co-supervisor     |
| O-3-13        | Significance of monitoring during endoscopy with special regard to the sedoanalgesic premedication                                                     | Dr. Döbrönte, Zoltán supervisor                                        |
| O-3-14        | Risk factors for endoscopic retrograde cholangiopancreatography (ERCP) related acute pancreatitis and effectiveness of the pharmacological prophylaxis | Dr. Döbrönte, Zoltán supervisor                                        |
| O-3-15        | The role of the microbiome in the development and maintenance of chronic diseases                                                                      | Dr. Rajnics, Péter supervisor                                          |

| <b>Programme<br/>Nr. 7 / PR-7</b> | <b>SPORT and HEALTH SCIENCES</b>                                                                                                                                                            | <b>Dr. Rétsági, Erzsébet programme leader<br/>Dr. Ács, Pongrác co-programme leader</b> |
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| S-3                               | Relations between biological status of fundamental motor skills and functional characteristics. Determination of the energy consumption rate of various training protocols using ergometers | Dr. Sárszegi, Zsolt supervisor                                                         |
| S-4                               | The preventive, therapeutic and rehabilitative role of the regular workout                                                                                                                  | Dr. Járomi, Melinda supervisor,<br>Dr. Makai, Alexandra co-supervisor                  |
| S-5                               | Development of non invasive methods to measure cardiovascular function                                                                                                                      | Dr. Karsai, István supervisor,<br>Dr. Prémusz, Viktória co-supervisor                  |
| S-6                               | Methodology and diagnostic approaches of measuring human performance                                                                                                                        | Dr. Karsai, István supervisor                                                          |
| S-7                               | Prevention of demonstrable lifestyle disorders, the healing role of physical fitness in chronic diseases. Fitness and exercise programs for rehabilitation                                  | Dr. Oláh, András supervisor                                                            |
| S-8                               | The Optimum Arousal Theory - to be in the ZONE - the State and the Possibility of Measuring within Elite and Recreational Sports                                                            | Dr. Balogh, László supervisor,<br>Dr. Rátgéber, László co-supervisor                   |
| S-9                               | Challenges of Public Education in Student Health Promotion – with Special Regards to Physical Activity                                                                                      | Dr. Rétsági, Erzsébet supervisor,<br>Dr. Győri, Ferenc co-supervisor                   |
| S-10                              | Philosophical, Content and Methodological Basis of Educating to Recreation in the Physical Education                                                                                        | Dr. Rétsági, Erzsébet supervisor,<br>Dr. Pótó, Zsuzsanna co-supervisor                 |
| S-11                              | The role and possibilities of movement games in the establishment of physically active lifestyle                                                                                            | Dr. Kovács, Katalin supervisor                                                         |
| S-12                              | Spatial specialities of the Hungarian health tourism                                                                                                                                        | Dr. Laczkó, Tamás supervisor                                                           |
| S-13                              | Demand and supply relations of the sport tourism in Hungary                                                                                                                                 | Dr. Laczkó, Tamás supervisor                                                           |
| S-14                              | Relation system of sports and quality of life                                                                                                                                               | Dr. Ács, Pongrác supervisor,<br>Dr. Betlehem, József co-supervisor                     |
| S-17                              | Micro-and macro-economic effects of physical activity                                                                                                                                       | Dr. Ács, Pongrác supervisor                                                            |
| S-18                              | The sports' economic and social relation system                                                                                                                                             | Dr. Ács, Pongrác supervisor                                                            |
| S-19                              | Sport management in the XXIth century                                                                                                                                                       | Dr. Elbert, Gábor supervisor,<br>Dr. Melczer, Csaba co-supervisor                      |
| S-20                              | The martial arts as a complex educational systems                                                                                                                                           | Dr. Kovács, Antal supervisor                                                           |
| S-21                              | Health tourism researches: the examination of the success factors of health tourism enterprises and the quality of the health tourism services, service management                          | Dr. Müller, Anetta supervisor                                                          |
| S-22                              | Trends of fitness-wellness, the examination of demand and supply elements on the field of free time economy at small and medium-size enterprises                                            | Dr. Müller, Anetta supervisor                                                          |
| S-24                              | The influence of organizational psychology and cultural factors to the achievement of sports teams and sport organizations in the globalization sport                                       | Dr. Balogh, László supervisor                                                          |
| S-25                              | The body image disorders among young and middle-aged men and women                                                                                                                          | Dr. Ihász, Ferenc supervisor                                                           |
| S-26                              | Regulation of the cardiorespiratory system under increased physical and psychological stress                                                                                                | Dr. Tóth, Miklós supervisor,<br>Dr. Ács, Pongrác co-supervisor                         |

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| S-27 | The analysis of predisposing factors of the obstructive sleep apnea syndrome (OSAS). Analysis of relationships of the disease and cardiovascular disease.           | Dr. Ihász, Ferenc supervisor                                            |
| S-28 | The effect of combat sports and martial arts on personality in public education and sport                                                                           | Dr. Morvay-Sey Kata supervisor                                          |
| S-29 | Impact of planned and regular physical activity on metabolic changes in elderly                                                                                     | Dr. Ihász, Ferenc supervisor,<br>Dr. Ács, Pongrác co-supervisor         |
| S-30 | Social and economic impacts of international sport events organised in Hungary                                                                                      | Dr. Stocker, Miklós supervisor                                          |
| S-31 | Cardiorespiratory data analysis of elite male 15-18-year-old basketball players during training and competition                                                     | Dr. Ihász, Ferenc supervisor                                            |
| S-33 | The role of respiratory control in improving the performance of athletes and the quality of life of chronic patients                                                | Dr. Kovács, Antal supervisor,<br>Dr. Varga, János Tamás co-supervisor   |
| S-34 | Psychophysiological study of technical and team sports                                                                                                              | Dr. Ihász Ferenc supervisor                                             |
| S-35 | The system of social and economic relations of e-sport                                                                                                              | Dr. Borbély, Attila supervisor,<br>Dr. Ács, Pongrác co-supervisor       |
| S-36 | Non-invasive comparative study of peripheral, central blood pressure, pulse pressure, arterial stiffness, stroke volume parameters in young athletes                | Dr. Cziráki, Attila supervisor,<br>Dr. Rátgéber, László co-supervisor   |
| S-37 | The effect of long-term endurance training on the development of physiological cardiac hypertrophy and the mechanisms of cardiac pump function and growth processes | Dr. Cziráki, Attila supervisor,<br>Dr. Rátgéber László co-supervisor    |
| S-38 | The role of team sports in the development of a physically active lifestyle                                                                                         | Dr. Filó, Csilla supervisor                                             |
| S-39 | To learn about the sports consumption habits of young adult e-athletes and to assess their role in the sports economy                                               | Dr. Paár, Dávid supervisor                                              |
| S-41 | Technical and specific movement analysis and non-invasive rehabilitation of water athletes                                                                          | Dr. Tollár, József supervisor,<br>Dr. Karsai, István co-supervisor      |
| S-42 | Investigation of biomechanical and cognitive changes under varying intensity load                                                                                   | Dr. Tollár, József supervisor,<br>Dr. Kovács, Árpád co-supervisor       |
| S-43 | Animation in the health sciences                                                                                                                                    | Dr. Cselik, Bence supervisor                                            |
| S-44 | Marketing in sports and health sciences                                                                                                                             | Dr. Cselik, Bence supervisor                                            |
| S-46 | Outdoor physical activity and active lifestyle attitude of employees                                                                                                | Dr. Ács, Pongrác supervisor,<br>Dr. Prémusz, Viktória co-supervisor     |
| S-47 | Dimensions of sustainability in children's camps: interactions between the "green turn" and the culture of health                                                   | Dr. Nemeskéri, Zsolt supervisor                                         |
| S-48 | The effects of Q angle in groin injuries in female athletes                                                                                                         | Dr. Ostojic, Sergej supervisor,<br>Dr. Rátgéber, László co-supervisor   |
| S-49 | Health and sports science aspects of movement therapies in prevention and rehabilitation                                                                            | Dr. Szilágyi, Brigitta supervisor,<br>Dr. Makai, Alexandra cosupervisor |



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| S-50                     | Special and alternative exercise programs and women's health                                                                                                                                                 | Dr. Hock, Márta supervisor,<br>Dr. Prémusz, Viktória co-supervisor           |
| S-51                     | Women's health and physical activity                                                                                                                                                                         | Dr. Hock, Márta supervisor,<br>Dr. Makai, Alexandra co-supervisor            |
| S-53                     | Cardiac adaptation in physiological and pathological conditions                                                                                                                                              | Dr. Szokodi, István supervisor                                               |
| S-55                     | The effect of physical activity/inactivity on the human body                                                                                                                                                 | Dr. Melczer, Csaba supervisor                                                |
| S-56                     | Passion and exercise addiction among athletes                                                                                                                                                                | Dr. Szabó, Attila supervisor<br>Dr. Morvay-Sey, Kata co-supervisor           |
| S-57                     | Examining the biomechanical aspects of injuries and overuse of overhead sports and the effectiveness of physiotherapy treatment methods                                                                      | Dr. Makai, Alexandra supervisor<br>Dr. Tardi, Péter Sándor co-supervisor     |
| S-58                     | Comparison, examination and development of performance measurement systems developed for rowing sports                                                                                                       | Dr. Győri, Ferenc supervisor                                                 |
| S-60                     | A comprehensive approach to evaluating vestibular symptoms; examination of vestibular disorders using video-head impulse testing                                                                             | Dr. Molnár, András supervisor                                                |
| S-62                     | A Multidisciplinary Approach to Falls: Epidemiology, Prevention, and Interventions                                                                                                                           | Dr. Morvay-Sey, Kata Ilona supervisor                                        |
| S-63                     | Physical Activity as a Protective Factor Against the Population Burden of Dementia                                                                                                                           | Dr. Ács, Pongrácz supervisor                                                 |
| S-64                     | The Global Economic Impact of Physical Inactivity: Implications for Public Health and Policy                                                                                                                 | Dr. Ács, Pongrácz supervisor                                                 |
| S-65                     | Sport-specific and training-induced differences in physiological thresholds and spiroergometric responses: a comparative evaluation of laboratory and field-based performance diagnostics across age and sex | Dr. Melczer, Csaba supervisor                                                |
| S-66                     | Empirical Analysis of the Role of Mental Preparedness and Psychological Skills in the Development of Athletic Performance                                                                                    | Dr. Makai, Alexandra supervisor<br>Dr. Bite-Trpkovici, Melinda co-supervisor |
| S-67                     | The influence of Discipline-Specific Body Compositions and Asymmetry in Postural Stability in Adolescent Athletes                                                                                            | Dr. Nedovic, Nenad supervisor<br>Dr. Rátgéber, László co-supervisor          |
| S-68                     | Digital Technology for Physiotherapy                                                                                                                                                                         | Dr. Aburub, Aseel supervisor                                                 |
| <b>8. program / PR-8</b> | <b>FOOD SCIENCES, NUTRITION, DIETETICS and HYDRATION</b>                                                                                                                                                     | <b>Prof. Dr. Figler Mária programme leader</b>                               |
| T-1                      | Examination of ingestion-controlling neuropeptides in diabetes mellitus and in their animal models                                                                                                           | Dr. Figler, Mária supervisor                                                 |
| T-2                      | Nutritional and clinical dietary studies of various carbohydrates in diabetic patients                                                                                                                       | Dr. Kovács, L. Gábor supervisor,<br>Dr. Figler, Mária co-supervisor          |
| T-3                      | Clinical dietetics and nutrition science. Cost analysis of eating habits and food consumption.                                                                                                               | Dr. Figler, Mária supervisor                                                 |

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| T-4  | Effect of various forms of calcium-intake in osteoporosis treatment.                                                                                                                         | Dr. Figler, Mária supervisor                                                  |
| T-5  | Effect of fructose consumption on certain metabolic parameters in patients with obesity and diabetes                                                                                         | Dr. Figler, Mária supervisor                                                  |
| T-6  | Examination of analytical and dietotherapeutic effects of oilseeds.                                                                                                                          | Dr. Figler, Mária supervisor                                                  |
| T-7  | Chemical and microbiological examination of food.                                                                                                                                            | Dr. Figler Mária supervisor,<br>Dr. Kerényi, Mónika co-supervisor             |
| T-8  | Analysis and dietetic examination of biologically active components in grapes.                                                                                                               | Dr. Figler, Mária supervisor                                                  |
| T-9  | Clinical application of probiotics (bacteria types, doses, domains of application).                                                                                                          | Dr. Figler, Mária supervisor                                                  |
| T-10 | Possibilities of influencing nutritional status of seriously ill patients in clinical practice.                                                                                              | Dr. Figler, Mária supervisor,<br>Dr. Óváry, Csaba co-supervisor               |
| T-11 | Effects of various types of treatment on lipid homeostasis and fatty acid composition of plasma lipids in patients with Type-II Diabetes                                                     | Dr. Figler, Mária supervisor<br>Dr. Decsi, Tamás co-supervisor                |
| T-12 | Possibilities of the realisation of energy balance in different sports                                                                                                                       | Dr. Figler, Mária supervisor                                                  |
| T-13 | Habits of liquid consumption in different sports                                                                                                                                             | Dr. Figler, Mária supervisor                                                  |
| T-15 | Diet in the management of multiple sclerosis.                                                                                                                                                | Dr. Gáti, István supervisor                                                   |
| T-16 | The influence of nutritional compounds in drinking form with enhanced concentration of arginin and zinc in cases of decubitus wound healing: measuring of the nutritional therapy efficiency | Dr. Kisbenedek, Andrea supervisor                                             |
| T-17 | Application of evidence based medicine methodology to the field of nutrition                                                                                                                 | Dr. Lohner, Szimonetta supervisor                                             |
| T-18 | Validation of nutrition screening tools                                                                                                                                                      | Dr. Polyák, Éva supervisor,<br>Dr. Pusztafalvi, Henriette co-supervisor       |
| T-19 | Quality of life study in nutrition related diseases                                                                                                                                          | Dr. Polyák, Éva supervisor,<br>Dr. Szabó, Éva co-supervisor                   |
| T-20 | Nutritional role of fatty acid intake and its instrumental analysis                                                                                                                          | Dr. Szabó, Éva supervisor                                                     |
| T-23 | Analysis of plant secondary metabolites                                                                                                                                                      | Dr. Kisbenedek, Andrea supervisor,<br>Dr. Stromájer-Rácz, Timea co-supervisor |
| T-24 | The effects of nutrition on gut microbiome                                                                                                                                                   | Dr. Polyák, Éva supervisor                                                    |
| T-25 | Ivestigation of fruits and consumption habits                                                                                                                                                | Dr. Kisbenedek, Andrea supervisor,<br>Dr. Gerencsér, Gellért co-supervisor    |
| T-26 | Eating habits and lifestyle of students in public education                                                                                                                                  | Dr. Kisbenedek, Andrea supervisor                                             |
| T-27 | Role of nutrition in mental health                                                                                                                                                           | Dr. Polyák, Éva supervisor                                                    |
| T-28 | Fatty acid profile and dietary factors in different diseases                                                                                                                                 | Dr. Polyák, Éva supervisor                                                    |
| T-30 | Nutritional role of grape plant                                                                                                                                                              | Dr. Szabó, Éva supervisor<br>Dr. Kőrösi, László co-supervisor                 |
| T-30 | Nutritional role of grape plant                                                                                                                                                              | Dr. Szabó, Éva supervisor<br>Dr. Kőrösi, László co-supervisor                 |
| T-31 | Manipulating the gut microbiota in different diseases                                                                                                                                        | Dr. Polyák Éva supervisor<br>Dr. Figler Mária co-supervisor                   |

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| T-32 | The role of carbohydrate maldigestion and malabsorption in the development of functional bowel disorders            | Dr. Czimmer József supervisor  |
| T-34 | New examination methods for the exploration of the link between proprioceptive impairment and prediabetes/diabetes  | Dr. Sonkodi, Balázs supervisor |
| T-35 | Hydrogen-Enriched Water and Nutritional Supplementation as Modulators of Low-Grade Inflammation and Health Outcomes | Dr. Ostojic, Sergej supervisor |