



## **Degree projects (30, 45 and 60 credits)**

### **Global Master's Programme in Nutrition Science (4NT22)**

#### Degree Projects 30 credits

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|----|-----------------------------------|--|------|
| 1. | Julia Backman                     | <b>“Targeting GLS Attenuates Inflammation in White Adipose Tissue”</b> 30 credits<br><u>Supervisor:</u> Lynn Alaeddine, postdoctoral researcher, Department of Medicine, Karolinska Institutet   | HT23 |
| 2. | Freja Stenbeck                    | <b>“Adherence to a smartphone-based dietary education among persons with type 2 diabetes”</b> 30 credits<br><u>Supervisor:</u> Stephanie Bonn, PhD, Docent, Department of Medicine, Solna, Clinical Epidemiology Division, Karolinska Institutet   | HT23 |
| 3. | Margaux Balduck                   | <b>“The effect of vulvovaginal candidiasis on the vaginal mucosal epithelium – a stable epithelial integrity and local immune environment”</b> 30 credits<br><u>Supervisor:</u> Kristina Broliden, Professor, MD, Department of Medicine, Solna, Division of Infectious Diseases, Karolinska Institutet                            | VT24 |
| 4. | Noemi Bolzonella                  | <b>“Associations Between Added Sugar Intake and Cardiometabolic Risk Markers in a cross-sectional study of 10,357 Swedish participants”</b> 30 credits<br><u>Supervisor:</u> Emily Sonestedt, Associate professor, Senior lecturer, Nutrition Epidemiology, Department of Clinical Sciences Malmö, Lund University                 | VT24 |
| 5. | Valeria Cecchini                  | <b>“The effect of an mHealth dietary intervention on ultra-processed food consumption in patients with type 2 diabetes: A randomised clinical trial”</b> 30 credits<br><u>Supervisor:</u> Stephanie Bonn, Senior Research Specialist, Docent, Clinical Epidemiology Division, Department of Medicine, Solna, Karolinska Institutet | VT24 |
| 6. | Raphaella Preza da Silveira Costa | <b>“Influence of three different classes of algae on gut microbiota, a systematic review”</b> 30 credits<br><u>Supervisors:</u> Stefania Giacomelo and Francisco Javier Vilaplana, KTH   | VT24 |
| 7. | Xiaoqi Li                         | <b>“Effect of cholesterol and lactate metabolism on adipose tissue expansion and function”</b> 30 credits<br><u>Supervisors:</u> Assoc. Prof. Carolina Hagberg and PhD stud. Min Cai, Department of Medicine, Solna, and CMM, Karolinska Institutet  | HT24 |

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| 8. | Isabelle Ruiz       | <b>"Probiotic fermented beverage from plant-based ingredients"</b> 30 credits<br><u>Supervisors:</u> Professor Francesca Patrigan, University of Bologna, Department of Agricultural and Food Sciences           | HT24 |
| 9. | Rachel Ann Da Costa | <b>"The biological signature of dietary patterns in older adults"</b> 30 credits<br><u>Supervisors:</u> Dr. Adrián Carballo Casla, Department of Neurobiology, Care Sciences, and Society, Karolinska Institutet | VT25 |

Degree Projects 45 credits

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| 1. | Karolina Barton                                 | <b>"Clinical outcomes of patients with SIBO and adherence to the carnivore diet: An analysis from a functional medicine perspective"</b> 45 credits<br><u>Supervisor:</u> Peter Martin - MD, PhD, Founder & CEO of Funmed Clinics  | 23-24 |
| 2. | Gerasimos Mavrogiannakis                        | <b>"Validation of Food-sourced Compounds for Mitigating Hallmarks of Aging"</b> 45 credits<br><u>Supervisor:</u> Hazel Xiaohui Ang, Post-doctoral researcher, Department of Biosciences and Nutrition, Karolinska Institutet   | 23-24 |
| 3. | Eyerusalem Abebe and Grigoria Papadimitropoulou | <b>"The Utility of Continuous Glucose Monitoring in Patients with Cancer – A Systematic Review and Meta-Analysis"</b> 45 credits<br><u>Supervisor:</u> Poorna Anandavadivelan, Assistant Professor, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Anna Hjort, Visiting researcher, Department of Life Sciences, Division of Food and Nutrition Science, Chalmers University of Technology, | 24-25 |
| 4. | Tianxu Feng                                     | <b>"Microglial synaptic pruning in the anorectic anx/anx mouse"</b> 45 credits<br><u>Supervisor:</u> PhD, Docent Ida AK Nilsson, Department of Molecular Medicine and Surgery, Karolinska Institutet   | 24-25 |
| 5. | Apostolia Filippopoliti                         | <b>"Linking the consummatory reward of taste to the anticipatory reward of odours"</b> 45 credits<br><u>Supervisor:</u> Putu Agus Khorisantono, Karolinska Institutet  | 24-25 |
| 6. | Janina Gold                                     | <b>"The Relationship Between Habitual Fat Intake and Sleep Quality"</b> 45 credits<br><u>Supervisor:</u> Soyoung Park, Prof. Dr, Department Decision Neuroscience and Nutrition (DNN), German Institute of Human Nutrition (DIfE)  | 24-25 |

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| 7.  | Reina Ito       | <b>“Study on the Pathophysiological Role of Dietary Advanced Glycation End Products (AGEs) in Age-Related Diseases”</b> 45 credits<br><u>Supervisor:</u> Sho-ichi Yamagishi M.D., Ph.D, Professor, Department of Medicine, Showa University Graduate School of Medicine, Tokyo   | 24-25 |
| 8.  | Laima Kampa     | <b>“Longitudinal trends of dumping syndrome after oesophageal cancer surgery”</b> 45 credits<br><u>Supervisor:</u> Prof. Pernilla Lagergren, Department of Molecular Medicine and Surgery, Karolinska Institutet, Karolinska University Hospital   | 24-25 |
| 9.  | Maduhu Mashini  | <b>“Evaluating nutrition care in Tanzania and Ghana: Assessing professional qualifications &amp; accreditation, clinical nutrition practices, and implementation of international guidelines for optimal end-stage kidney disease management.”</b> 45 credits<br><u>Supervisor:</u> Alice Baganha Sabatino, PhD, Department of Clinical Science Intervention and Technology, Karolinska Institutet | 24-25 |
| 10. | Fatemeh Mohseni | <b>“The gut microbiome as a potential risk factor for large neonates: a nested case-control study”</b> 45 credits<br><u>Supervisor:</u> Luisa Warchavchik Hugerth, Dept. of Medical Biochemistry and Microbiology (IMBIM), Uppsala University  | 24-25 |

### Degree Projects 60 credits

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|----|------------------------|--|-------|
| 1. | Amanda Ahlberg         | <b>“Targeting metabolic vulnerabilities of senescent cells”</b> 60 credits<br><u>Supervisor:</u> Federico Pietrocola, Principal Researcher, Department of Cell and Molecular Biology, Karolinska Institutet  | 23-24 |
| 2. | Neda Alizadeh-Khameneh | <b>“Influence of the environment on the polar metabolites of brewed coffee over time”</b> 60 credits<br><u>Supervisor:</u> Antonio Checa, PhD, Senior Research Infrastructure Specialist, Institute of Environmental Medicine, Karolinska Institutet                                       | 23-24 |
| 3. | Julia Balewska         | <b>“Unraveling the dynamic developmental trajectory of human myeloid cells in homeostasis and during NAFLD progression”</b> 60 credits<br><u>Supervisor:</u> Ping Chen, Dr., Assistant Professor, Division of Clinical Chemistry, Department of Laboratory Medicine, Karolinska Institutet | 23-24 |
| 5. | Gabriela Ciobotaru     | <b>“Towards a food ingredient clinically proven to benefit gut health: Novel Rhamnogalacturonan I variants”</b> 60 credits<br><u>Supervisor:</u> Ignacio Rangel, School of Medical Sciences, Örebro University   | 23-24 |
| 7. | Jia Hui Ding           | <b>“Spinal Cord Injury and Metabolic Disease: Determining the Role of Inflammatory Cytokines”</b> 60 credits<br><u>Supervisor:</u> Laurie J. Goodyear, Ph.D., Roeland Middelbeek, M.D, Section on Integrative Physiology and Metabolism, Joslin Diabetes Center, Harvard Medical School    | 23-24 |

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| 8.  | Hurriam Hussain        | <b>“Influence of the environment in the phenolic profile of brewed coffee over time”</b> 60 credits<br><u>Supervisor:</u> Antonio Checa, PhD, Senior Research Infrastructure Specialist, Institute of Environmental Medicine, Karolinska Institutet  | 23-24 |
| 9.  | Tade Adekunle Idowu    | <b>“Loss of Zfp697 expression in mice causes a sexual dimorphic phenotype in response to diet-induced obesity”</b> 60 credits<br><u>Supervisor:</u> Jorge L. Ruas, Department of Physiology and Pharmacology, Karolinska Institutet and Department of Pharmacology and Stanley and Judith Frankel Institute for Heart & Brain Health, University of Michigan Medical School, USA   | 23-24 |
| 10. | Radhika Devidas Jadhav | <b>“Association of fat mass percentage with asthma outcomes”</b> 60 credits<br><u>Supervisor:</u> Hannu Kankaanranta, Professor, Department of Internal Medicine and Clinical Nutrition, Krefting Research Centre, Gothenburg University   | 23-24 |
| 11. | Aurora Emilia Kärhä    | <b>“Effect of dasatinib and quercetin on mature adipocyte SASP, and adipocyte SASP effect on triple-negative breast cancer cell line MDA-MB-231 in obesity”</b> 60 credits<br><u>Supervisor:</u> Esther Wan, PhD, Department of Cell and Molecular Biology, Karolinska Institutet  | 23-24 |
| 12. | Dimitra Loulaki        | <b>“Fecal Carbon-To-Nitrogen Ratio and Links to Diet and Gut Microbial Metabolism”</b> 60 credits<br><u>Supervisor:</u> Henrik Roager, Associate Professor, Department of Nutrition, Exercise and Sports, University of Copenhagen   | 23-24 |
| 13. | Martina Pensa          | <b>“Association between antioxidant vitamin intake and mental health in Swedish adolescents”</b> 60 credits<br><u>Supervisor:</u> Björg Helgadóttir, The Swedish School of Health and Sport Sciences   | 23-24 |
| 14. | Choo Wen Rui           | <b>“Parents’ Food Literacy, Perceived Barriers and Enablers, and Healthy-eating Attitude Associated with Children’s Adherence to the Mediterranean Diet: The DELICIOUS Project”</b> 60 credits<br><u>Supervisor:</u> Giuseppe Grosso, University of Catania, Italy   | 23-24 |
| 15. | Alessandra Siclari     | <b>“High-carbohydrate low-fat and high-fat low-carbohydrate energy-restricted diets combined with exercise training: effects on gastrointestinal appetite hormones, subjective appetite, body composition and energy intake in women with overweight and obesity”</b> 60 credits<br><u>Supervisor:</u> Dr. Dalia Malkova, School of Medicine, Dentistry and Nursing, College of Medical, Veterinary and Life Sciences, University of Glasgow | 23-24 |
| 16. | Zuzanna Sobańska       | <b>“Dietary intake and cognition in prodromal Alzheimer’s Disease patients in a multidomain lifestyle intervention”</b> 60 credits<br><u>Supervisor:</u> Shireen Sindi, PhD, Assistant Professor, Department of Neurobiology, Care Sciences and Society, Division of Clinical Geriatrics, Karolinska Institutet  | 23-24 |

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17.	Livia Zhou	<b>“Establishment of microvascular endothelial cell assay for the identification of novel insulin sensitizers”</b> 60 credits <u>Supervisor:</u> Yuanyuan Wu, Ph.D., Principal Scientist, Department of Discovery In Vitro Biology, Novo Nordisk, China	23-24
18.	Siqi Chang	<b>“The Role of Tryptophan Metabolism in Regulating Circadian Rhythms”</b> 60 credits <u>Supervisor:</u> Paul Petrus, PhD, Department of Medicine, Huddinge, Karolinska Institutet	23-24
19.	Cecília Oliveira Esteves	<b>“Co-design of a mobile health intervention for management of hypertension in Australian adults”</b> 60 credits <u>Supervisor:</u> Ralph Madison, Professor, School of Exercise & Nutrition Sciences – Deakin University	23-24
20.	Yvette Paula Achieng' Aroko	<b>“Balancing the Scales: Evaluating Nutrient Loss, Carbon Footprint and Economic Impacts of Edible Household Food Waste”</b> 60 credits <u>Supervisor:</u> Mattias Eriksson, PhD, Associate Professor, Department of Energy and Technology, Swedish University of Agricultural Sciences	24-25
21.	Vera Bajeva	<b>“Awareness of bodily sensations and the sensory eating experience in the context of snacking behavior”</b> 60 credits <u>Supervisor:</u> Dr Barbara Vad Andersen, Department of Food Science, Aarhus University	24-25
22.	Desar Dauti	<b>“Investigating the role of BACH1 and antioxidants in the angiogenic activity of endothelial cells”</b> 60 credits <u>Supervisor:</u> Martin O. Bergö, Professor, Department of Medicine Huddinge, Karolinska Institutet	24-25
23.	Yawen Fan	<b>“Comparative Analysis of Central Neuronal Networks Innervating the Pancreas and Liver”</b> 60 credits <u>Supervisor:</u> Alessandro Furlan, Ph.D., Assistant Professor, Department of Neuroscience, Karolinska Institutet	24-25
24.	Jennifer Gransten	<b>“Intensity-Dependent Effects of Acute Aerobic Exercise on Physiological Stress Markers and Affective States”</b> 60 credits <u>Supervisor:</u> Maria Ekblom, Department of Physical Activity and Health, Section for Health Science at Swedish School of Sport and Health Sciences	24-25
25.	Elisabeth Hagberg	<b>“Development of food products with seaweed for children”</b> 60 credits <u>Supervisor:</u> Dr Pernilla Sandvik, Uppsala University	24-25
26.	Ingrid Hughes	<b>“Assessing the Feasibility of the REBECCA App: A Real-World Data Approach to Tracking Lifestyle and Well-Being in Breast Cancer Survivors”</b> 60 credits <u>Supervisor:</u> Ioannis Ioakeimidis, IMPACT Research group, Department of Medicine, Huddinge, Karolinska Institutet	24-25

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| 27. | Celina Joachim          | <b>“Differences in habitual diet, transit time and colonic fermentation between women with daily and few weekly bowel movements”</b> 60 credits<br><u>Supervisor:</u> Henrik Munch Roager, Associate Professor, Department of Nutrition, Exercise and Sports, University of Copenhagen                                     | 24-25 |
| 28  | Muriel Klonk            | <b>“Associations between active school transportation with body composition, physical fitness, and cardiometabolic risk markers in Swedish 9-year-old children”</b> 60 credits<br><u>Supervisor:</u> Christine Delisle Nyström, Docent, Assistant Professor, Department of Medicine, Karolinska Institutet                 | 24-25 |
| 29. | Ioanna Mavrouli         | <b>“Cross-Sectional Associations of Lifestyle Factors with MASLD Prevalence in Australia: Insights from the AusDiab Study”</b> 60 credits<br><u>Supervisor:</u> Elena George, Deakin University  | 24-25 |
| 30. | Negar Zand<br>Miralvand | <b>“Pilot Analysis of the Local Food Micro-Environment Using New Technologies in an Occupational and Educational Setting (FESKIS Project)”</b> 60 credits<br><u>Supervisor:</u> Ioannis Ioakeimidis, PhD, Senior Researcher, IMPACT Group, Department of Medicine, Huddinge, Karolinska Institutet                         | 24-25 |
| 31. | Sandra-Maria<br>Pereira | <b>“Cross-sectional examination of 24-hour movement behaviours in Swedish pre-school aged children: Results from the SUNRISE study”</b> 60 credits<br><u>Supervisor:</u> Christine Delisle Nyström, Docent, PhD, Assistant Professor, Department of Medicine, Huddinge, Karolinska Institutet                              | 24-25 |
| 32. | Kylie Scher             | <b>“Development of a Gas Chromatography Mass Spectrometry (GC-MS) Method to Assess the Fatty Acid Composition of Southern Victorian Marine Algae”</b> 60 credits<br><u>Supervisor:</u> Dr Dan Dias, Deakin University  | 24-25 |
| 33. | Feifan Wang             | <b>“A Retrospective Study of the Association between Amino Acid Metabolism, Nutritional Support, and Mortality in COVID-19 and Non-COVID ICU Patients”</b> 60 credits<br><u>Supervisor:</u> Olav Rooyackers, Perioperative Medicine and Intensive Care, Karolinska University Hospital, and CLINTEC, Karolinska Institutet | 24-25 |