Role of gut-liver axis in circadian exercise and dietary interventions to improve metabolic health

Kovynev, A.S.

Role of gut-liver axis in circadian exercise and dietary interventions to improve metabolic health

Artemiy Stanislavovich Kovynev

Role of gut-liver axis in circadian exercise and dietary interventions to improve metabolic health

The work described in this thesis was performed at the department of Medicine, division of Endocrinology, Leiden University Medical Center, Leiden, The Netherlands, and at the Einthoven Laboratory for Experimental Vascular Medicine, Leiden, The Netherlands. This work was supported by an LUMC Prevention & Lifestyle theme grant.

Financial support by the Netherlands Association for the Study of Obesity (NASO) for the publication of this thesis is gratefully acknowledged.

I would like to thank Anne Zijl and Jasmijn van Heijst for fulfilling my vision and designing and creating the thesis cover.

Role of gut-liver axis in circadian exercise and dietary interventions to improve metabolic health

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,

op gezag van rector magnificus prof.dr.ir. H. Bijl,

volgens besluit van het college voor promoties

te verdedigen op donderdag 6 november 2025

klokke 11:30 uur

door

Artemiy Stanislavovich Kovynev

geboren te Moskou, Rusland

in 1998

Promotor	Prof. dr. P.C.N. Rensen
Copromotoren	Dr. M. Schönke
	Dr. Q.R. Ducarmon
Leden promotiecommissie	Prof. dr. K. Willems van Dijk
	Prof. dr. M. Nieuwdorp (Amsterdam UMC)
	Prof. dr. S.W.C. van Mil (UMC Utrecht)
	Dr. T.M.H. Eijsvogels (Radboud UMC)

Table of contents