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Disentangling the relationship between depression, obesity and cardiometabolic disease

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LIST OF PUBLICATIONS IN THIS THESIS

Alshehri, T., Boone, S., de Mutsert, R., Penninx, B., Rosendaal, F., le Cessie, S., . . . Mook-Kanamori, D. (2019). The association between overall and abdominal adiposity and depressive mood: A cross-sectional analysis in 6459 participants. *Psychoneuroendocrinology*, *110*, 104429. doi:10.1016/j.psyneuen.2019.104429

Bot, M., Milaneschi, Y., Al-Shehri, T., Amin, N., Garmeva, S., Onderwater, G. L. J., . . . Consortium, Bbmri-Nl Metabolomics. (2020). Metabolomics Profile in Depression: A Pooled Analysis of 230 Metabolic Markers in 5283 Cases With Depression and 10,145 Controls. *Biol Psychiatry*, *87*(5), 409-418. doi:10.1016/j.biopsych.2019.08.016

van der Spek, A., Stewart, I. D., Kühnel, B., Pietzner, M., Alshehri, T., Gauß, F., . . . Amin, N. (2023). Circulating metabolites modulated by diet are associated with depression. *Mol Psychiatry*. doi:10.1038/s41380-023-02180-2

Alshehri, T., Mook-Kanamori, D. O., de Mutsert, R., Penninx, B. W., Rosendaal, F. R., le Cessie, S., & Milaneschi, Y. (2023). The association between adiposity and atypical energy-related symptoms of depression: A role for metabolic dysregulations. *Brain Behav Immun*, *108*, 197-203. doi:10.1016/j.bbi.2022.12.005

Alshehri, T., Mook-Kanamori, D. O., Willems van Dijk, K., Dinga, R., Penninx, B. W. J., Rosendaal, F. R., . . . Milaneschi, Y. (2021). Metabolomics dissection of depression heterogeneity and related cardiometabolic risk. *Psychol Med*, 1-10. doi:10.1017/s0033291721001471

Alshehri, T., Milaneschi, Y., de Mutsert, R., Winters-van Eekelen, E., Boone, S., Verkouter, I., . . . Mook-Kanamori, D. Symptomatology of depression and onset of cardiometabolic diseases - A 7-year follow-up study. (In preparation)

PORTFOLIO

Oral and Poster Presentation	Year	Credit
Annual Dutch Diabetes research (NVDO). The Netherlands.	2017	0.25
Netherlands Epidemiological Conference (WEON) Science for society research. The Netherland	2018	1.00
The translational neuroscience network (TN2) conference. Innovation in psychiatry, neurostimulation and inflammation. The Netherlands	2018	0.25
Congresses and Symposia		
The Netherlands association for the study of obesity (NASO) scientific spring meeting	2017	0.75
BBMRI-omics: Introduction and Hands-on Application	2017	0.25
Netherlands Epidemiological Conference (WEON) Epidemiological methods for implementation research. The Netherland	2018	1.00
Courses, Seminars, and Master Classes		
Basic Methods and Reasoning in Biostatistics, Boerhaave Instituut, Leiden, the Netherlands	2017	1.50
Epidemiology “An Introduction” (Based on the book by Kenneth Rothman), Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2017	2.00
Regression Analyses (advances course), Boerhaave Instituut, Leiden, the Netherlands	2017	1.50
Survival Analyses, Boerhaave Instituut, Leiden, the Netherlands	2017	1.50
Analysis of Repeated Measurements, Boerhaave Instituut, Leiden, the Netherlands	2017	1.50
Clinical Epidemiology Principals, Methods, and Applications for Clinical Research. Based on the book: “Clinical Epidemiology” by D.E. Grobbee & A.W.Hoes, Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2018	3.00
Causal Inference (Hernan), Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2018	3.00
Systematic Reviews and Meta-Analyses, Boerhaave Instituut, Leiden, the Netherlands	2018	1.00
International course on clinical Epidemiology Schiermonnikoog, Boerhaave Instituut, Leiden, The Netherlands	2019	2.00

Weekly Research Lunch, Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2016-2023	3.00
Weekly Capita Selecta, Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2016-2023	3.00
Bi-weekly Journal Club of the NEO study, Department of Clinical Epidemiology, Leiden University Medical Center, the Netherlands	2016-2023	3.00
Weekly (NESDA) lab meeting, Department of Psychiatry, Amsterdam UMC. the Netherlands	2018-2022	3.00
The Netherlands Study of Depression and Anxiety (NESDA)	2018-2022	3.00

Student Monitoring and Teaching	Year	Workload Hours
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Tutoring Working Groups of Courses for Bachelor/ Master Students	2017-2023	40
Supervision of Critical Appraisal of Topic (CAT) Project, Bachelor of Medicine student (Linda Y.S. Jans)	2022	5
Supervision of Master students (Michelle Sinteur and Jeff Kamerman)	2020	20
Supervision of Bachelor students (Sem Dreier Gligoor and Mary-Ann Van Der Linden)	2022	40

Generic and Transferable skills Training by the Graduate School of Leiden University	Year	Workload Hours
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PhD Introductory Meeting	2017	4
Communication skills in science	2017	40

Other activities	Year
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Reviewing scientific epidemiological publications	2022-2023
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ACKNOWLEDGMENT

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CURRICULUM VITAE

Tahani Alshehri was born on the 23rd of February 1984 in Riyadh, Saudi Arabia. She completed high school in 2001 in Riyadh. She obtained her BSc from the Biochemistry department in 2005 at King Saud University in Riyadh, graduating with First Class Honours. After graduation, she volunteered to work as a technician at the same department, where she was hired as a demonstrator in 2007. In the same year, she joined the Master's program in the biochemistry department. During her Master's study, she gained three years of experience in a specialized molecular biology laboratory in Behavior Genetics (Genetic Department/Research Center/King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia). Her Master's thesis was "Genotype-phenotype correlation in Saudi β -thalassemia patients". In January 2011, she earned her MSc degree of Sciences in Biochemistry from King Saud University. In January 2012, she moved to Iowa City, Iowa, United States, to study English as a second language at Iowa Intensive English Program (IIEP). She was back in Riyadh in January 2014, where she resumed her duties as a demonstrator and, soon after that, was promoted to lecturer in the biochemistry department in 2015. In 2016, she moved to Leiden, the Netherlands, to pursue her PhD in the clinical epidemiology department under the supervision of Prof. dr. F. R. Rosendaal, Dr. D. O. Mook-Kanamori, and Dr. Y. Milaneschi. Tahani's research topic focused on the association between obesity and depression. In her research, she investigated this association from an epidemiological, biochemical (metabolomics), and genetic point of view. In December 2022, she moved back to Riyadh and resumed her work at King Saud University. After earning her PhD, she will be promoted to assistant professor at the same university.