

**ACADEMIC
CURRICULUM VITAE**

1. Name - Surname: Yağmur Derman

2. Title: Doçent

3. Educational Background: Doktora

Degree	Department/Program	University	Year
Bachelor's	Licenciate Veterinary Medicine	Ankara University	2007
Master's	Licenciate Veterinary Medicine	Ankara University	2007
PhD	Food Hygiene	University of Helsinki	2015

4. Master's / PhD Thesis

4.1.Master's Thesis Title and Thesis Advisor(s):

4.2.PhD Thesis /Medical Specialty Thesis Title and Advisor(s):

Stress response of Group I and II *Clostridium botulinum* /Hannu Korkeala, Miia Lindström

5. Academic Titles:

Date of Assistant Professorship:

Date of Associate Proferssorship: 20.01.2025

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

Lämpötilan vaikutus *Clostridium botulinum* Bf -kannan kasvuun, itiöintiin ja toksiinigeeniaktiivisuuteen (2023) Riina Röpellinen

6.2. PhD Theses

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

15. Wu Z, Li J, Feng J, Derman Y, Tan J, Mu J, Gao Z, Zhang W, Zhang Z. Molecular characterization and biocontrol potential of three novel prophage-derived Amidase_3 family endolysins against *Clostridium perfringens* in cooked chicken meat. SSRN (2026). doi: 10.2139/ssrn.6688588.
14. Douillard F.P., Derman Y., Jian C., Korpela K., Saxén H., Salonen A., de Vos W.M., Korkeala H. & Lindström M. (2024) Insights into the fecal microbiota composition and dynamics of an infant diagnosed with intestinal botulism. *Gut Pathog* 16: 20 doi: 10.1186/s13099-024-00614-y.
13. Douillard F.P., Portinha I.M., Derman Y., Woudstra C., Mäklin T., Dorner M.B., Korkeala H., Henriques A. O. & Lindström M. (2023) A novel prophage-like insertion element within *yabG* triggers early entry into sporulation in *Clostridium botulinum*. *Viruses* 12: 2431 doi: 10.3390/v15122431.
12. Douillard F. P., Derman Y., Woudstra C., Selby K., Mäklin T., Dorner M.B., Saxén H., Dorner B. G., Korkeala H. & Lindström M. 2022. Genomic and Phenotypic Characterization of *Clostridium botulinum* Isolates from an infant botulism case suggests adaptation signatures to the gut. *mBio* 13(3):e0238421.
11. Woudstra C., Mäklin T., Derman Y., Bano L., Skarin H., Mazuet C., Honkela A. & Lindström M. 2021. Closing *Clostridium botulinum* Group III Genomes Using Long-Read Sequencing. 2021. *Microbiol Resour Announc* 22: e01364-20.
10. Rasetti-Escargueil C., Avril A., Miethe S., Mazuet C., Derman Y., Selby K., Thullier P., Pelat T., Urbain R., Fontayne A., Korkeala H., Sesardic D., Hust M. & Popoff M. R. 2017. The European AntibotABE Framework Program and Its Update: Development of Innovative Botulinum Antibodies. *Toxins*, (10):309.doi:10.3390/toxins9100309.
9. Peck M. W., Smith T. J., Anniballi F., Austin J. W., Bano L., Bradshaw M., Cuervo P., Cheng L. W., Derman Y., Dorner B. G., Fisher A., Hill K. K., Kalb S. R., Korkeala H., Lindström M., Lista F., Lúquez C., Mazuet C., Pirazzini M., Popoff M. R., Rossetto O., Rummel A., Sesardic D., Singh B. R. & Stringer S. C. 2017. Historical Perspectives and Guidelines for Botulinum Neurotoxin Subtype Nomenclature. *Toxins*, 18; doi: 10.3390/toxins9010038.
8. Derman Y., Selby K., Miethe S., Frenzel A., Liu Y., Rasetti-Escargueil C., Avril A., Pelat T., Urbain R., Fontayne A., Thullier P., Sesardic D., Lindström M., Hust M. & Korkeala H. 2016. Neutralization of

Botulinum Neurotoxin Type E by a Humanized Antibody. *Toxins*, 12,8 pii: E257. doi: 10.3390/toxins8090257.

7. Söderholm H., Derman Y., Lindström M. & Korkeala H. 2015. Functional *csdA* is needed for effective adaptation and initiation of growth of *Clostridium botulinum* ATCC 3502 at suboptimal temperature. *Int J Food Microbiol*, 208:51-7.

6. Derman Y., Söderholm H., Lindström M. & Korkeala H. 2015. Role of *csp* genes in NaCl, pH, and ethanol stress response and motility in *Clostridium botulinum* ATCC 3502. *Food Microbiol*, 46:463-70.

5. Derman Y., Korkeala H., Salo E., Lönnqvist T., Saxen H. & Lindström M. 2014. Infant botulism with prolonged faecal excretion of botulinum neurotoxin and *Clostridium botulinum* for 7 months. *Epidemiol Infect*, 142:335-9.

4. Mascher G., Derman Y., Kirk D. G., Palonen E., Lindström M. & Korkeala H. 2014. The CLO3403/CLO3404 two-component system of *Clostridium botulinum* E1 Beluga is important for cold shock response and growth at low temperatures. *Appl Environ Microbiol*, 80:399-407.

3. Derman Y., Isokallio M., Lindström M. & Korkeala H. 2013. The two-component system CBO2306/CBO2307 is important for cold adaptation of *Clostridium botulinum* ATCC 3502. *Int J Food Microbiol*, 167:87-91.

2. Jalava K., Selby K., Pihlajasaari A., Kolho E., Dahlsten E., Forss N., Bäcklund T., Korkeala H., Honkanen-Buzalski T., Hulkko T., Derman Y., Järvinen A., Kotilainen H., Kultanen L., Ruutu P., Lyytikäinen O. & Lindström M. 2011.

1. Derman Y., Lindström M., Selby K. & Korkeala H. 2011. Growth of group II *Clostridium botulinum* strains at extreme temperatures. *J Food Prot*, 74:1797-804.

7.2. Articles Published in Other International Peer-Reviewed Journals

7.3. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

1. Le Maréchal C., Anniballi F., Bano L., Tevell Åberg A., Lindström M., Dorner M. B., Hedeland M., Seyboldt C., Koene M., Bilei S., Derman Y., Chemaly M., 2020. Workshop on the risks associated with animal botulism and ANIBOTNET final meeting. *EuroReference* 12, 33-44.

2. François Douillard., Yağmur Derman., Cédric Woudstra., Anne Salonen., Willem M. de Vos b., Hannu Korkeala., Miia Lindström., 2018 Novel aspects of intestinal botulism. Toxicon 156, S25-S25.

3. Aittamaa M., Söderholm H., Somervuo P. J., Nykäsenoja S., Auvinen P., Selby K., Derman Y., Nuppunen M., Myllys V., Rantala L., Valkonen J., 2010. 29 p. Mikrosirutekniikka bakteeritaudinaiheuttajien tutkimuksessa ja diagnostiikassa. Helsingin yliopisto, Maataloustieteiden laitos, Elintarvikehygienian ja ympäristöterveyden osasto ja Biotekniikan instituutti.

7.4. National/international Books or Book Chapters

1. Derman Y., Dahlsten E. & Korkeala H. 2016 Stress and environmental regulation of gene expression and adaptation in bacteria. de Bruijn, F. J. (ed.). New Jersey: John Wiley & Sons Ltd. , Vol. 2, p. 845-853 9 p.

7.5. Articles Published in National Peer-Reviewed Journals

8. Art and Design Activities

9. Projects

Walter Ehrström foundation research grant,

Project: Hunting for Clostridium botulinum Group III lytic bacteriophages

Finnish Veterinary Foundation research grant,

Project: Why two guns? Understanding Clostridium botulinum strains equipped with dual neurotoxins

10. Administrative Responsibilities

Assessment of the operating structures and management system at the University of Helsinki (TOIJO)

University of Helsinki, One Health Master's Program preparatory committee

11. Memberships in Scientific and Professional Organizations

The European Association of Establishments for Veterinary Education (EAEVE) expert

The Interagency Botulism Research Coordinating Committee - the botulinum neurotoxin nomenclature committee member

12. Awards

The doctoral thesis, completed in 2015, received the grade of 'pass with distinction,' awarded to only 10% of all doctoral degrees conferred by the University of Helsinki's Faculty of Veterinary Medicine.

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2024 - 2025	Fall	Food Hygiene	5	7	73
	Spring	Meat Inspection	3	7	70
		Abattoir Hygiene	3	7	68
2023 - 2024	Fall	Food Hygiene	5	7	73
	Spring	Meat Inspection	3	7	70
		Abattoir Hygiene	3	7	68