



# Decoding the Food–Gut–Cell Axis

## Functional Food, Biotechnology and Data-Driven Nutrition

Spring school 2026 (Curriculum – MODULE 2)

Organized by the Medical University of Lodz

### Day 1 | 25/05/2026 (Monday) – Scientific Review Day

**Locations:** Clinical and Didactic Center at the Medical University of Lodz (A2 building) Pomorska 247/249, 92-209 Łódź, Poland

- Room 01.24 (ground floor)
- Western Lecture Hall

BRaln Laboratories at the Medical University of Lodz (A5 building) Czechosłowacka 4, 92-216 Łódź, Poland  
Room 0.09 (ground floor)

■ Introduction ■ Lecture ■ Break ■ PhD ■ Workshop ■ SMM Council

TIME	LENGTH	LOCATION	TITLE	SPEAKER
8:30-9:00	30 min	CDC 01.24	<b>SMM Scientific Council Meeting</b>	
09:15	5 min	CDC Western Lecture Hall	<b>Introduction</b>	<b>Jakub Fichna</b> Head of Doctoral School of Molecular Medicine
9:20	30 min lecture, 10 min Q&A	CDC Western Lecture Hall	<b>Gene-environment interplay in cardiometabolic disease</b>	<b>Tuomas Kilpeläinen</b> University of Copenhagen
10:00	30 min		<b>Coffee break</b>	
10:30		BRaln 0.09	<b>Public Review Session (Part 1/4)</b>	
11:45	10 min		<b>Coffee break</b>	
		BRaln 0.09	<b>Public Review Session (Part 2/4)</b>	

13:00	45 min		<b>Lunch break</b>
14:05		BRaIn 0.09	<b>Public Review Session</b> (Part 3/4)
15:00	15 min		<b>Coffee break</b>
15:15		BRaIn 0.09	<b>Public Review Session</b> (Part 4/4)
16:30			

TOTAL LENGTH: 8 h 25 min

## Day 2 | 26/05/2026 (Tuesday)

**Locations:** BRaIn Laboratories at the Medical University of Lodz (A5 building) Czechostowacka 4, 92-216 Łódź, Poland  
Room 0.09 (ground floor)

MolecoLAB at the Medical University of Lodz (A6 building) Mazowiecka 5, 92-215 Łódź, Poland  
Room 0.24 (Department of Biochemistry)

■ Introduction ■ Lecture ■ Break ■ PhD ■ Workshop ■ SMM Council

TIME	LENGTH	LOCATION	TITLE	SPEAKER
09:00	2h	BRaIn 0.09	<b>From Genetic Associations to Disease Mechanisms</b>	<b>Tuomas Kilpeläinen</b> University of Copenhagen
11:00	15 min	BRaIn 0.09	<b>Coffee break</b>	
11:15	1h 45 min	MolecoLAB 0.24	<b>Isolate your RNA/DNA</b>	<b>Edyta Borkowska-Milewska</b> A&A Biotechnology
13:00	1 h	BRaIn 0.09	<b>Lunch break</b>	
14:00	1h	MolecoLAB 0.24	<b>Identify your protein (Part 1/2)</b>	<b>Zuzanna Burzyńska</b> Merck Life Science
15:00	25m		<b>Coffee break</b>	
15:25	1h 35m	MolecoLAB 0.24	<b>Identify your protein (Part 2/2)</b>	<b>Zuzanna Burzyńska</b> Merck Life Science
17:00				

TOTAL LENGTH: 8 h 00 min

## Day 3 | 27/05/2026 (Wednesday)

**Location:** BRaIn Laboratories at the Medical University of Lodz (A5 building) Czechostowacka 4, 92-216 Łódź, Poland

Room 0.09 (ground floor)

■ Lecture ■ Break ■ Workshop

TIME	LENGTH	LOCATION	TITLE	SPEAKER
09:00	2 h	BRaIn 0.09	<b>How to popularize science?</b>	<b>Patrycja Dołowy</b> Artes Liberales, University of Warsaw
11:00	20 min		<b>Coffee break</b>	
11:20	1h 40m	BRaIn 0.09	<b>The Floor Is Yours! Self-Presentation and Public Speaking (Part 1/3)</b>	<b>Magdalena Kostyła</b> Medical University of Lodz
13:00	45 min		<b>Lunch break</b>	
13:45	1h 30m	BRaIn 0.09	<b>The Floor Is Yours! Self-Presentation and Public Speaking (Part 2/3)</b>	<b>Magdalena Kostyła</b> Medical University of Lodz
15:15	15 min		<b>Coffee break</b>	
15:30	45 min	BRaIn 0.09	<b>The Floor Is Yours! Self-Presentation and Public Speaking (Part 3/3)</b>	<b>Magdalena Kostyła</b> Medical University of Lodz
16:15				

TOTAL LENGTH: 7 h 35 min

## Day 4 | 28/05/2026 (Thursday)

**Location:** BRaIn Laboratories at the Medical University of Lodz (A5 building) Czechostowacka 4, 92-216 Łódź, Poland  
Room 0.09 (ground floor)

■ Lecture ■ Break ■ Workshop

TIME	LENGTH	LOCATION	TITLE	SPEAKER
09:00	1h 45+15	BRaIn 0.09	<b>Epithelial junctional homeostasis: implications for health and disease</b>	<b>Damian Jacenik</b> Department of Cytobiochemistry, Faculty of Biology and Environmental Protection University of Lodz
10:00	1 h 45 min	BRaIn 0.09	<b>Data analysis for personalized nutrition</b>	<b>Agata Chmurzyńska</b> Department of Human Nutrition and Dietetics, Poznan University of Life Sciences
11:45	15 min		<b>Coffee break</b>	
12:00	1 h	BRaIn 0.09	<b>Extracellular vesicles in colorectal cancer progression – good or bad players?</b>	<b>Joanna Boncela</b> Cellular Signaling Laboratory Institute of Medical Biology PAS
13:00	45 min		<b>Lunch break</b>	
13:45	1 h 30 min	BRaIn 0.09	<b>Organoids: from experimental models to clinical translation</b>	<b>Marta Zielińska</b> Department of Biochemistry Medical University of Lodz
15:15	1h on-line lecture	BRaIn 0.09	<b>Nutritional epigenomics in health and disease</b>	<b>Barbara Stefańska</b> University of British Columbia
16:15				

TOTAL LENGTH: 7 h 15 min