



International from the beginning - suport of internationalization

Project is cofinanced by the Polish National Agency for Academic Exchange under the STER Programme

SCIENCE FOR A SUSTAINABLE NOW AND FUTURE



SCHEDULE

Spring school for doctoral students and Master's students

University of Silesia in Katowice, Poland Katowice 7.04.2025-11.04.2025







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Monday 7.04.2025				
Block A				
spinPLACE, Katowice, Bankowa 5	•			
9:00 - 10:30 AM				
The role of commensal bacteria and next-				
generation probiotics- lecture (Joana Barbosa)				
	Block B			
10:30 – 11:00 AM coffee break	B216 room,			
	Katowice, Bankowa 9			
11:00 AM - 12:30 PM Antibacterial peptides and resistance genes: a broader perspective - lecture (Joana Barbosa)	11:00 AM - 12:30 PM Selected issues of unsupervised learning: clustering, association rules – lecture and workshop (Małgorzata Przybyła-Kasperek)			
12:30 – 1:15 PM Lunch break, spinPLACE				
1:15 – 2:45 PM				
Microbiome - Our Personal Bodyguard – interactive lecture (Katarzyna Duda)	1:15 – 3:45 PM			

3:00-4:30 PM

2:45 - 3:00 AM

Coffee break

Allergy: Epidemic of the 20th Century. More Than Allergens? – interactive lecture (Katarzyna Duda)

AI Tools for Literature Review
(Małgorzata Przybyła-Kasperek) - lecture and
workshop

[Coffee break in the middle]







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Thuesday 8.04.2025				
Block A SPIN-Lab Centre for Microscopic Research on Matter, Chorzów, 75 Pułku Piechoty 1a	Block B SPIN-Lab Centre for Microscopic Research on Matter, Chorzów, 75 Pułku Piechoty 1a	Block C spinPLACE, Katowice, Bankowa 5		
9:00 AM-12:00 PM Workshop (6 people): Scanning Electron Microscope (SEM AmberX)	9:00 AM-12:00 PM Workshop (6 people): Microcomputed tomograph (UniTOM HR, Tescan)	9:30 - 12:00 AM Selected issues of supervised learning: decision trees, k-nearest neighbors. Evaluation of models - lecture and workshop (Małgorzata Przybyła-Kasperek)		
12:00 – 1:00 PM coffee break		12:00– 1:00 PM coffee break		
1:00 – 4:00 PM Workshop (6 people): Workshop on transmission electron microscope (F200, Jeol)	1:00 – 4:00 PM Workshop (6 people): Workshop on confocal light microscope (Stellaris 8, Leica)	1:00 AM - 2:30 PM Tools for machine learning - lecture and workshop (Małgorzata Przybyła-Kasperek) 2:45 – 4:15 PM Exploring bacterial genomes for AMPs- lecture (Joana Barbosa)		
sightseeing of the Silesian Museum and dinner				







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Wednesday 9.04.2025				
Block A SPIN-Lab Centre for Microscopic Research on Matter	Block B SPIN-Lab Centre for Microscopic Research on Matter	Block C		
9:00 AM-12:00 PM Workshop (6 people): Scanning Electron Microscope (SEM AmberX)	9:00 AM-12:00 PM Workshop (6 people): Microcomputed tomograph (UniTOM HR, Tescan)	9:00 - 11:30 AM spinPLACE, Katowice, Bankowa 5 The microbiome in chronic lung disease—interactive lecture (Katarzyna Duda)		
12:00 – 1:00 PM Lunch break		11:30 – 11:45 AM Coffee break		
1:00 – 4:00 PM Workshop (6 people): Workshop on transmission electron microscope (F200, Jeol)	1:00 – 4:00 PM Workshop (6 people): Workshop on confocal light microscope (Stellaris 8, Leica)	11:45 AM - 1:15 PM spinPLACE, Katowice, Bankowa 5 Discovery of Novel Microbial Metabolites – interactive lecture (Katarzyna Duda)		
		1:15 – 2:15 PM Lunch break, spinPLACE + time for transfer		
		2:15 – 4:45 PM Bankowa 9, Katowice (12 people) Plant mycosphere - lecture and laboratory classes (Monika Malicka)		

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Thursday 10.04.2025				
Block A spinPLACE, Katowice, Bankowa 5		Block B Bankowa 9, Katowice		
9:00 - 10:30 AM Exploring bacterial genomes for ARGs: Horizontal gene transfer and dissemination of resistance genes - lecture (Joana Barbosa)		9:15 AM - 12:15 PM (12 people)		
10:30 -	- 10:45 AM Coffee break	Isolation and characterization of fungal endophytes from plant roots - laboratory classes (Monika		
10:45 AM - 12:15 PM Advanced application and future directions - lecture (Joana Barbosa)		Malicka)		
12:15 – 1:00 PM Lunch break, Lunch break, spinPLACE				
1:00 – 3:30 PM	Students' presentations (10 people, 10+5 min)			







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Friday 11.04.2025

9:00 AM - 10:30 AM

spinPLACE, Katowice, Bankowa 5

Non-typable Heamophilus influenzae - an important player in chronic lung disease – interactive lecture (Katarzyna Duda)

9:00 AM - 11:30 AM

Bankowa 9 (12 people)

Analysis of the morphology and development of arbuscular mycorrhiza – workshop (Monika Malicka)

12:00 - 1:00 PM

Lunch break, spinPLACE

