

**„Pharmaceutical Sciences - Physical Chemistry and Biophysics for Pharmacy 2025”
under the patronage of a scientific journal „Polymers in Medicine-Polimery w Medycynie”
on December 4-5, 2025, at the Faculty of Pharmacy of the Medical University of Wrocław**

Day 1: sessions of 4.12.2025 (Thursday)/Dzień 1: sesje 4.12.2025 (Czwartek)

Lp.	Event/Wydarzenie	Time/ Czas [min]	Hour/ Termin [godzina]	Other/ Uwagi
1.	Opening	20	10.00-10.20	Witold Musiał
Session No 1/Sesja Nr 1				
Surface tension in physical methods for drug development				
2.	Toward understanding the impact of hydrophobic surfaces on insulin agglomeration: Therapeutic implications and challenges	30	10.20-10.50	Sourav Bhattacharjee
3.	Molecular Insights into Surfactant–Protein Interactions: From Physicochemical Characterization to Biomedical Potential	20	10.50-11.10	Żaneta Czyżnikowska
4.	Development of new glucose sensors based on photoelectrochemical phenomena	25	11.10-11.35	Mahabubur Rahman Chowdhury (on-line)
5.	Discussion/Dyskusja	5	11.35-11.40	
6.	Coffee break/Przerwa kawowa	15	11.40-11.55	
Session No 2/Sesja Nr 2				
Drug development and pharmaceutical technology				
7.	Studies on the interaction of ophthalmic drop packaging polymers with the self-emulsifying carrier of oil drops	20	11.55-12.15	Marzena Jamrógiewicz
8.	Industrial-scale fluid-bed granulation and PAT	25	12.15-12.40	Jyrki Tapio Heinämäki (on-line)
9.	Cyclodextrins: Small ring - big impact	25	12.40-13.05	Tamas Sohajda (on-line)
10.	Discussion/Dyskusja	5	13.05-13.10	
11.	Coffee break/Przerwa kawowa	15	13.10-13.25	
Session No 3/Sesja Nr 3				
Conjugates, proteins and similars – targeting cells and tissues				
12.	Design and Application of Hydrophilic Linkers in Next-Generation High-Payload Antibody–Drug Conjugates	25	13.25-13.50	Gianfranco Pasut (on-line)

13.	Design of PLGA–mupirocin conjugate scaffolds with tunable degradation and antimicrobial activity for wound healing applications	15	13.50-14.05	Tomasz Urbaniak
14.	Properties of Doped Resin-Modified Glass Ionomer Cement and Fluoride Release from Dental Biomaterials	20	14.05-14.25	Paweł Piszko
15.	Effect of the peptide C10-KRIWQRIKDF-NH ₂ in the aqueous subphase on the compression and stability of phosphatidylinositol monolayers in the temperature range of 25–35°C	15	14.25-14.40	Iwona Golonka
16.	Discussion/Dyskusja	5	14.40-14.45	
17.	Lunch break/Przerwa na lunch	45	14.45-15.30	
Session No 4/Sesja Nr 4 Kinetics and models in pharmaceutical sciences				
18.	Computational Biophysics and Clinical Pharmacology: Machine Learning Approaches for Predictive Modeling of Patient Data	20	15.30-15.50	Andrzej Czyrski
19.	Pharmacokinetic Approaches in Preclinical Evaluation of Drug Candidates	20	15.50-16.10	Małgorzata Szafarz
20.	The Response Surface Methodology	15	16.10-16.25	Remigiusz Zapolski
21.	Summary/Podsumowanie	5	16.25-16.30	Witold Musiał
Poster Session – general access				
22.	On billboards		10.00-16.30	

TBA – to be announced, during agreements, after 17.00 – social and entertainment events, organized or individual, TBA

Day 2: sessions of 5.12.2025 (Friday) /Dzień 2: sesje 5.12.2025 (Piątek)

Lp.	Event/Wydarzenie	Time/ Czas [min]	Hour/ Termin [godzina]	Other/ Uwagi
23.	Opening	10	9.00-9.10	Witold Musiał
Session No 5/Sesja Nr 5 Drug carriers and active pharmaceutical ingredients: new particles, modifications and natural sources				
24.	Selected examples of physico-chemical methods applied for development of drug carriers	20	9.10-9.30	Witold Musiał
25.	When Molecules Join Hands: The Journey of Cocrystals from Mechanochemistry to Therapeutic Application	25	9.30-9.55	Beatrice Perissutti (on-line)
26.	Harnessing liposome technology to unlock the potential of natural products in therapy	25	9.55-10.20	Carla Caddeo
27.	Physical modifications of poorly soluble drugs as a way to create supersaturated systems: The case of bosentan hydrate	20	10.20-10.40	Anna Krupa
28.	Discussion/Dyskusja	5	10.40-10.45	
29.	Coffee break/Przerwa kawowa	20	10.45-11.05	
Session No 6/Sesja Nr 6 Carriers for active pharmaceutical ingredients – between basic science and applications				
30.	Chemico-physical and biological properties of monoclonal antibodies, under real-life light doses: a mechanistic approach	25	11.05-11.30	Giorgia Miolo (on-line)
31.	Dermal delivery of clotrimazole using microneedle technologies	25	11.30-11.55	Bożena Michniak-Kohn (on-line)
32.	Where biophysics meet pharmacy - parametrization of mechanistic model for drug release from PLGA-based biodegradable implants	20	11.55-12.15	Sebastian Polak
33.	The impact of formulation composition on the bioavailability of the active substance in probiotic emulsions for the topical treatment of dermatological conditions	15	12.15-12.30	Monika Gasztych
34.	Discussion/Dyskusja	5	12.30-12.35	
35.	Coffee break/Przerwa kawowa	15	12.35-12.50	

Session No 7/Sesja Nr 7				
Analytics and interactions in pharmaceutical systems				
36.	Physicochemical and biological properties of multi-target Michael acceptors based on cinnamanilides	25	12.50-13.15	Josef Jampilek
37.	Analytical challenges and clinical relevance of vitamin D epimers	20	13.15-13.35	Marta Karażniewicz – Łada
38.	You cannot step into the same river twice – imaging of hidden processes in hydrophilic matrix tablets	20	13.35-13.55	Przemysław Dorożyński
39.	Discussion/Dyskusja	5	13.55-14.00	
40.	Lunch break/Przerwa na lunch	50	14.00-14.50	
Session No 8/Sesja Nr 8				
Pharmaceutical sciences and industry				
41.	Physicochemical methods for the study of the interaction between exogenous factors and endogenous antioxidants proteins (EAPs)	20	14.50-15.10	Wojciech Rogóż
42.	Influence of PEG-based crosslinkers on physicochemical properties of thermosensitive polymers	15	15.10-15.25	Agnieszka Gola
43.	The effect of hydrothermal and chemical modifications of potato starch on its carrier properties for selected polyphenols from chokeberry fruit	15	15.25-15.40	Justyna Kobryń
44.	Kinetics of prednisolone sodium phosphate release from sodium hyaluronate based hydrogels doped with synthetic polymers	15	15.40-15.55	Dorota Wójcik-Pastuszka
45.	Discussion/Dyskusja	5	15.55-16.00	
46.	Summary/Podsumowanie	10	16.00-16.10	
Poster Session – general access				
47.	On billboards		9.00-16.10	

TBA – to be announced, during agreements