

"The 2nd International Conference for Science and Pharmacy"

(MSPC2)

Mutah University

Al-Karak, Jordan

October 25 – 27, 2023

Under the patronage of HE Prof. Dr. Salameh S. Naimat

President of Mutah University

Conference Chairman

Prof. Dr. Marwan S. Mousa

Surface Physics and Materials Technology Lab.

ORGANIZING COMMITTEE

Prof. Dr. Marwan S. Mousa

Prof. Dr. Amin Aqel

Prof. Dr. Mohammed A. Al-Anber

Dr. Walid Rwadieh (University Public Relations Director)

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SCOPE OF THE CONFERENCE
The International Conference of the
Faculty of Sciences & Faculty of Pharmacy at Mutah University

"The 2nd International Conference for Science and Pharmacy"

(MSPC2)

25-27 October 2023

Aims and Themes of the Conference:

- Bringing together the scientists from Mutah University and colleagues from around the world to Exchange and share their research.
- Establishing a network among those researchers
- Presenting advancement in research at Mutah in two main tracks:
 - a- Science (i) Physics and Chemistry Materials
 - b- Pharmaceutical research & industry
- Generating long-term collaborations.
- Publish fully refereed Proceedings in Scopus Jordanian Journals

--Deadline for full paper submission for refereeing: 30.11.2023

Mutah University, Al-Karak, Jordan

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Website: www.mutah.edu.jo

Username: mSPC2@mutah.edu.jo

CONFERENCE PROGRAMME

Pharmacy Auditorium

(Faculty of Pharmacy / Mutah University)

Under the Patronage of HE Prof. Dr. Salameh S. Naimat

25 October, 2023

First Session

Chairlady: Dr Lidia K. Al-Halaseh

10:00 Opening Session

Prof. Dr. Marwan S. Mousa (Conference Chairman)

Prof. Dr. Salameh Naimat (President of Mutah University)

10:15 International-Collaboration Session

Chairman: Prof. Dr. Marwan S. Mousa

Prof. Dr. Nizar Mheidat

(General Director of the Jordanian Drug and Food Administration)

Prof. Dr. Heinrich Lang

(Research Centre for Materials, Architectures and Integration of Nanomembranes (MAIN), Research Group Organometallics, Chemnitz, Germany)

Prof. Dr. Suresh Sagadevan

(Nanotechnology & Catalysis Research Centre, University of Malaya, Kuala Lumpur, Malaysia)

Prof. Dr. Mohamed Ellouze

(Sfax University, Faculty of Sciences of Sfax, LAMMA, Sfax, Tunisia)

Prof. Dr. Salima Labidi

(LNCTS Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria)

Prof. Dr. Hassan Elsayed

(Department of Microbial Biotechnology, Biotechnology Research Institute, National Research Centre, Egypt)

Group Photo

10:45 Coffee Break and Poster Session

Second Session

Chairmen: Prof. Dr. Mohammed A. Al-Anber and Prof. Dr. Mohamed Ellouze

11:55 Prof. Dr. Heinrich Lang

Research Centre for Materials, Architectures and Integration of Nanomembranes (MAIN), Research Group Organometallics, Rosenbergstrasse 6, Chemnitz Germany

12:20 Prof. Dr. Yaseen A. Al-Soud

Department of Chemistry, College of Science, University of Al al-Bayt, Al-Mafraq, Jordan

Novel Hybrid Motifs of 4-Nitroimidazoles-Piperazines: Synthetic Approaches and Pharmacological Importance

12:45 Prof. Dr. Suresh Sagadevan

Nanotechnology & Catalysis Research Centre, University of Malaya, Kuala Lumpur 50603, Malaysia

Nanostructured photocatalysts for degradation of organic pollutants in wastewater and environmental remediation

13:10 Prof. Dr. Rula M. Darwish

Dean /Professor of School of Pharmacy /The University of Jordan

Antibiotic Resistance: The Chase and the Race

13:35 Hassan Elsayed^{1*}, Rehab Moustafa¹, Reem M. El Shenawy¹, Sherine N. Khattab², Mona M. Agwa³ Eman Mahmoud¹, Mohammed A. Sarhan^{4,5}, Mohamed Mostafa Abdel Ghafar⁶, Mohamed El-Shiekh⁷, Ahmed A. Yousif⁶, Mohamed Shaban⁶, Maysa Hanfi Shaker⁸, Mohamed El-kassas⁹, Weaam Gouda¹⁰, Sherif M. shawky¹¹, Ahmed H.I. Faraag^{12,13}, Ali M. Zaki¹⁴

1 Department of Microbial Biotechnology, Biotechnology Research Institute, National Research Centre, Egypt; 2 Department of Chemistry, Faculty of Science, Alexandria University, Alexandria, Egypt; 3 Department of Chemistry of Natural and Microbial Products, Pharmaceutical and Drug Industries Research Division, National Research Centre, Egypt; 4 Department of Medical Microbiology and Immunology, National Liver Institute, Menoufia University, Menoufia, Egypt; 5 Department of Medical Microbiology, University of Toronto, Ontario, Canada; 6 Ahmed Maher Teaching Hospital, General Organization for Teaching hospitals and Institutes, Ministry of Health and Population, Egypt; 7 El-Mataraa Teaching Hospital, General Organization for Teaching hospitals and Institutes, Ministry of Health and Population, Egypt; 8 Department of Pathology, Animal Health Research Institute, Egypt; 9 Endemic Medicine Department, Faculty of Medicine, Helwan University, Egypt; 10 Department of Biochemistry, Genetic Engineering and Biotechnology Institute, National Research Centre, Egypt; 11 Biochemistry Department, Faculty of Pharmacy, Misr University for Science and Technology, Egypt; 12 Botany and Microbiology Department, Faculty of Science, Helwan University, Egypt; 13 School of Biotechnology, Badr University in Cairo, Egypt 14 Microbiology Department, Faculty of Medicine, Ain-Shams

University, Egypt.

Modulation of SARS-CoV-2 spike antibody responses by Multiple Antigenic Peptide vaccination

14:00 S. Labidi¹, M. Ellouze², M. Labidi^{1,3}, R. Masrour⁴, O. Ramdane¹

1 LNCTS Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria.

2 Sfax University, Faculty of Sciences of Sfax, LAMMA, B.P. 1171, 3000, Sfax, Tunisia

3 Higher School of Industrial Technologies of Annaba, Algeria

4 Laboratory of Solid Physics, Faculty of Sciences, Sidi Mohamed Ben Abdellah University, BP 1796, Fes, Morocco

DFT and Monte Carlo calculations of cubic and tetragonal Ba₂FeMoO₆ for spintronic applications

14:25 Coffee Break

Third Session

Chairmen: Prof. Dr. Wael Abu Dayyih and Prof. Dr. Hassan Elsayed

14:50 Eng. Ahmad Al-Bes¹ & Eng. Fadel Labadi²

¹Board Member of Jordan Chamber of Industry/ Representative of Chemical Industries Sector

²Manager of Industrial Development Department/ Amman Chamber of Industry

Success Stories and Challenges of Applied Scientific Research in Chemical Fertilizers Industries

15:25 M. Ellouze¹, S. Labidi²

1 Sfax University, Faculty of Sciences of Sfax, LAMMA, B.P. 1171, 3000, Sfax, Tunisia

2 LNCTS Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria.

Study of the structural, magnetic, and magnetocaloric effects of perovskites based on transition elements

15:40 Mayssa Abdel Hady^{1*}, Rehab I Moustafa², Hassan Elsayed ²

1 Department of Pharmaceutical Technology, National Research Centre, Egypt.

2 Department of Microbial Biotechnology, Biotechnology Research Institute,
National Research Centre, Egypt

*Achieving Lower Intraocular Pressure Using Biodegradable Drug Loaded
Hydrogel*

16:05 Lunch at Al Karak by the Castle with possibility for visiting the castle

18:00 Return to Amman

End of Day 1

Day 2
26 October, 2023

Fourth Session

Chair-man/woman: Prof. Dr. Amin Aqel & Prof. Dr. Salima
Labidi

10:00 Dr. Kyle Cordova

Executive Director of Research for Development Sector, Senior Assistant to
the President for Scientific Affairs, Royal Scientific Society, Amman 11941,
Jordan

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*On-Command Drug Release from a Hydrogen-Bonded Organic Framework
Equipped with a Molecular Nano-Valve*

**10:25 Alaa M. Abd-Elnaiem¹, A. Sedky¹, Ali S. Alshomrany², A.
Hakamy^{2*}**

¹Physics Department, Faculty of Science, Assiut University, Assiut 71516,
Egypt.

²Department of Physics, Umm Al-Qura University, Makkah, Saudi Arabia.

*Influence of annealing temperature on the structure and dielectric
characterization of Indium-doped Tin Oxide (ITO) thin films on a boro-float
substrate prepared by radio frequency sputtering*

10:40 Enas Almanasreh*, Rebekah Moles, Timothy F Chen

Research in Social and Administrative Pharmacy, Faculty of Pharmacy, Mutah
University, Al-Karak, Jordan.

*The medication discrepancy taxonomy (MedTax): The development and
validation of a classification system for medication discrepancies identified
through medication reconciliation*

11:05 Coffee Break

Fifth Session

Chair-women: *Dr Lidia K. Al-Halaseh* & Prof. Dr. Mayssa Abdel Hady

12:05 Dr. Yasser Gaber

Professor of Microbiology and Immunology, Faculty of Pharmacy, Mutah University, AL-Karak, Jordan.

Optimizing Hepatitis A and Cholera Vaccines: Exploring Innovative Adjuvants

12:30 Yusuf M. Al-Hiari*, Moneera Alzghoul, Violet Najeeb Kasabri,

*Professor of School of Pharmacy /The University of Jordan

Chelator Fluoroquinolones with Potential Anticancer Properties

13:00 Lunch

Sixth Session

Chairmen: Prof. Dr. Mohamed Al share & Prof. Dr. Mohammad El-Khateeb

14:05 Nisreen Taiseer Al-Qaisi, Wael Abu Dayyih

Faculty of Pharmacy, Mutah University, Al-Karak, Jordan

Investigation Study of Artemisia and Dapagliflozin on HbA1c in Healthy and Induced DM Type 2 in Rats

14:30 Dr. Deeb Taher

[Ti₁₇5-1-(SiMe₃)-3-(R)-C₉H₅]Cl₂(OEt)] Half-Sandwich Complexes: Synthesis, Solid-State Structure,

Hirshfeld surface analysis and Theoretical studies

14:55 Mohammad Alwahsh¹, Amani Aldoridee¹

¹Department of Pharmacy, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan.

Cytotoxic Differences of Anticancer Drugs on 2D and 3D Cancer Cell Lines

15:20 Mohammad M. Allaham^{a, b*}, Alexandr Knápek^b, Dinara Sobola^c and Marwan S. Mousa^d

^a Central European Institute of Technology, Brno University of Technology, Purkyňova 123, 612 00 Brno, Czech Republic

^b Institute of Scientific Instruments of Czech Academy of Sciences, Královopolská 147, 612 64 Brno, Czech Republic

^c Department of Physics, Faculty of Electrical Engineering and Communication, Brno University of Technology, Technická 2848/8, 616 00 Brno, Czech Republic

^d Department of Physics, Mu'tah University, Al-Karak 6170, Jordan
Applications of glass-graphite micro-composites in cold field emission and scanning tunneling microscopy

15:55 Ammar Al Soud^{1*}, Samer Daradkeh¹, Alexandr Knápek², Marwan S. Mousa³, Dinara Sobola^{1,4}

¹ Central European Institute of Technology Brno University of Technology Purkynova 656/123, 61200 Brno, Czech Republic.

² Institute of Scientific Instruments of the Czech Academy of Sciences Královopolská 147,612 64, 62100 Brno, Czech Republic.

³ Department of Physics, Mutah University, 61710 Al-Karak, Jordan.

⁴ Department of Physics Brno University of Technology Technická 24848/8,61600 Brno, Czech Republic.

Influence of Carbon Flakes Dopant Epoxy Electrical Properties

16:20 Coffee Break

18:30 Dinner

END of DAY 2

Day 3
27October, 2023
Marriott Hotel

10:00 Closing Session
Recommendations
Future Collaborations

11:00 Meeting with German partners:

Friedrich Naumann Foundation:
Open Discussion and Cooperation Venues