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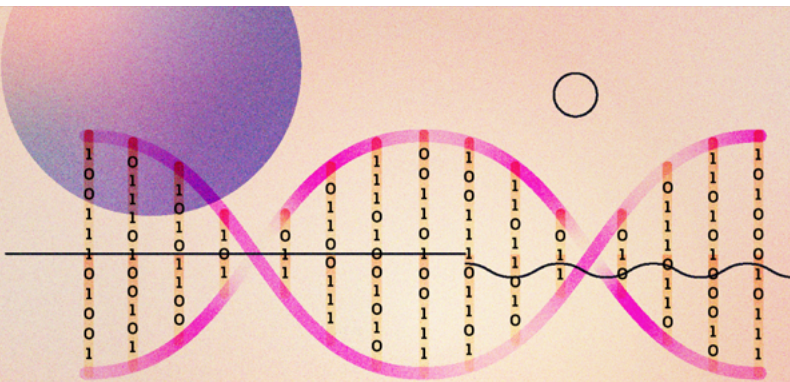
International Workshop of the
Arab-German Young Academy of Sciences and Humanities (AGYA)

Introduction of Bioinformatics to Arab Education Systems

21 – 22 November 2022
Tunis, Tunisia



agya.info



In cooperation with



The Workshop is a joint project of the
AGYA Working Groups Arab and
German Education, Health and Society,
and Innovation.

All times correspond to local Tunisia time = CET

Sunday, 20 November 2022

Arrival Day

Venue: Mövenpick Hotel du Lac

19:00

Dinner at 'Le Grand' Restaurant of the Mövenpick Hotel du Lac

Monday, 21 November 2022

Venue: Institut Pasteur de Tunis

08:00 – 08:30 *Transfer from the Hotel to the Institut Pasteur de Tunis*

AGYA Workshop on Bioinformatics in Health and Diseases

08:30 – 08:35

Welcome Address

Prof. Dr. Hechmi Louzir

Director-General, Institut Pasteur de Tunis, Tunisia

08:35 – 08:40

Presentation of AGYA

Dr. Olfa Messaoud, AGYA Co-President

Institut Pasteur de Tunis, Tunisia

08:40 – 08:45

Presentation of the AGYA Project on Bioinformatics

Dr. Abdelhamid Alhassi, AGYA member

University of Benghazi, Libya

Session I:

OMICs Data Analysis

Moderated by

Dr. Mohammad Adm, AGYA member

Palestine Polytechnic University, Palestine

08:45 – 09:10

Recent Advances and Future Directions of Bioinformatics in Biomedicine

Dr. Mohamed El Hadidi

Nile University, Egypt

09:10 – 09:35

Next Generation Sequencing for Infectious Diseases: A Successful Combination

Dr. Fatma Guerfali

Institut Pasteur de Tunis, Tunisia

09:35 – 10:00

Next Generation Sequencing for Rare Genetic Diseases: Unpacking the Genomic Black Box

Dr. Lilia Romdhane, AGYA member

Institut Pasteur de Tunis & Faculty of Sciences of Bizerte, Tunisia

10:00 – 10:15

Q&A

10:15 – 10:45

Coffee Break

Session II:

Algorithms, Machine Learning, Statistics, and Data Visualization

Moderated by

Prof. Dr. Shadi Albarqouni, AGYA member

University of Bonn, Germany

- 10:45 – 11:10 **Rethinking Genomic Analyses:
Preparing Computer Science Students for Pandemics**
Dr. Mohammed Alser
ETH Zurich, Switzerland
- 11:10 – 11:35 **Structural Bioinformatics and Artificial Intelligence:
Applications to Protein and Drug Design**
Dr. Joseph Rebehmed
Lebanese American University, Lebanon
- 11:35 – 12:00 **Visualization: Today's Perspective on Data**
Dr. Zein Salah
Palestine Polytechnic University, Palestine
- 12:00 – 12:15 **VarFish, a User-friendly Web Application
for Variant Analysis in Rare Disease Cases**
Dr. Pietro Incardona
University Hospital Bonn, Germany
- 12:15 – 12:30 **Q&A**
- 12:30 – 14:00 **Lunch Break**
- 14:00 – 17:00 **Cultural and Scientific Excursions**
- 19:00 **Dinner at 'Billionaire' Café & Restaurant**
- 21:00 **Transfer to the Hotel**

Tuesday, 22 November 2022

Parallel Sessions

Practical Sessions for Students on Bioinformatics

Venue: Institut Pasteur de Tunis

- 08:00 – 08:30 **Transfer from the Hotel to the Institut Pasteur de Tunis for Students**
- 08:30 – 10:00 **RNA-Sequence Analysis: Hands-on Training I**
Dr. Oussema Souai
Institut Pasteur de Tunis, Tunisia
- 10:00 – 10:30 **Coffee Break**
- 10:30 – 12:00 **RNA-Sequence Analysis: Hands-on Training II**
Dr. Oussema Souai
Institut Pasteur de Tunis, Tunisia
- 12:00 – 13:30 **Lunch Break**
- 13:30 – 15:00 **Structural Bioinformatics for Drug Discovery I**
Dr. Emna Harigua
Institut Pasteur de Tunis, Tunisia
- 15:30 – 17:00 **Structural Bioinformatics for Drug Discovery II**
Dr. Emna Harigua
Institut Pasteur de Tunis, Tunisia
- 17:00 **Transfer to the Hotel**
- 19:00 **Dinner at 'Pavarotti Pasta' Restaurant**

AGYA Roundtables and Meetings: Introduction of Bioinformatics to Arab Education Systems

Venue: Mövenpick Hotel du Lac

- 09:00 – 09:30** **Fostering Arab-German Cooperation: DAAD Funding Schemes**
Dr. Renate Dieterich
Director, DAAD Office, Tunisia
- 09:30 – 10:00** **Discussion**
- 10:00 – 10:30** **Roundtable on Bioinformatics Master's Program I**
Master Coordinator and Bioinformatics Teachers
- 10:30 – 11:00** **Coffee Break**
- 11:00 – 12:30** **Roundtable on Bioinformatics Master's Program II**
Master Coordinator and Bioinformatics Teachers
- 12:30 – 13:00** **Discussion and Final Comments by the Participants**
- 13:00 – 14:30** **Lunch Break at 'Le Grand' Restaurant of the Mövenpick Hotel du Lac**
- 14:30 – 17:00** **Innovation WG Meeting (Hybrid)**
AGYA members
- 19:00** **Dinner at 'Pavarotti Pasta' Restaurant**

Wednesday, 23 November 2022

Departure day

Hotel

Mövenpick Hotel du Lac
Rue du Lac Huron
Tunis 1053
Tunisia

Venue

Institut Pasteur de Tunis
13, Place Pasteur
Tunis, Belvédère
Tunisia

Restaurants

'Le Grand'
Mövenpick Hotel du Lac
Rue du Lac Huron
Tunis 1053
Tunisia

'Billionaire'
Café & Restaurant
Les Berges du Lac 2
Tunisia

'Pavarotti Pasta'
Les Berges du Lac 1
Tunisia

Photography during the AGYA Workshop

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