

Report

03-Days International Conference Cum Workshop

“Natural Products: Biological and Pharmaceutical Applications”

(Hybrid)

Compiled by;

Dr. Mubshara Saadia, Chairperson Department of Biochemistry, GC Women University
Faisalabad (GCWUF).

2nd National and 1st International 03-Days Conference
NATURAL PRODUCTS: BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS
DECEMBER 18-20, 2024 (WEDNESDAY-FRIDAY)

HONORABLE GUESTS

ORGANIZING COMMITTEE

KEYNOTE SPEAKERS

VENUE:
RIPHAH INTERNATIONAL UNIVERSITY, FAISALABAD, GCWUF

Jointly Organized by Department of Biochemistry, Government College Women University, Faisalabad and Department of Biochemistry and Pharmaceutical Sciences, Riphah International University, Faisalabad.

<p>KEYNOTE SPEAKERS</p> <p>Prof. Dr. Abdul Razaq, Vice Chancellor, KIU-GB Prof. Dr. Ijaz Rasool Noorika, UOS-SGD Prof. Dr. Muhammad Sher, UOS-SGD Prof. Dr. Muhammad Iqbal, GCUF-FSD Prof. Dr. Shahid Iqbal, UE-FSD Prof. Dr. Abida Raza Rao, PMAS, AAUR-RWP Prof. Dr. Mian Anjuman Marzana, UOS-SGD Prof. Dr. Ranzana Saeed Janjua, GCUF-FSD Prof. Dr. Inam Khatt, SAU Tandjara-Stadh Prof. Dr. Nudrat Aisha Akram, GCUF-FSD Prof. Dr. Amir Mahmood, GCUF-FSD Prof. Dr. Ashraf Shahzad, Superior University-SGD Prof. Dr. Talib Mahmood, DMAG, PU-LHR Dr. Mahmood ul Hasan, NIAB-FSD Dr. Shazia Anwar, GCUF-FSD Dr. Abdul Tawab, NIBGE-FSD Nural Shahriza Razali, University Putra Malaysia Enzar Binte Mubshara Azman, University Putra Malaysia Dr. Aasia Raza Bano, PU-LHR Dr. Muhammad Naveed Ahmad, UAK Dr. Abdu Rauf, UOS-KPK Dr. Muhammad Saleem, OU-DOK Dr. Muhammad Yaseen Banzhara, Legaznee Company-FSD Dr. Khalid Mahmood, Chief Editor Nexus and Viresa Dr. Mubina Ulfat, Tokyo, Japan Dr. Lubna Khatoon, Denmark Dr. Arshad Hameed, AARS-SWP Dr. Abdul Ghaffar, GCUF-FSD Dr. Nagma Sultan, UOS-SGD Dr. Tehzeeb Gulzar, GCUF-FSD</p>	<p>Dr. Shagufta Kamal, GCUF-FSD Dr. Shumaila Kiran, GCUF-FSD Dr. Laila Rubab, UE-FSD Dr. Farida Bahliil, SBKWU-Balochistan Mr. Ali Raza, Mujahid Hospital-FSD Dr. Raheela Jabeen, WUM-Multan Dr. Iram Hafeez, UOS-SGD Dr. Kashif Iqbal, UAF-FSD Dr. Shumaila Rafiq, Denmark</p> <p>REGISTRATION</p> <p>Registration Fee</p> <table border="1"> <tr> <th>Physical Mode</th> <th>Online Mode</th> </tr> <tr> <td>• For Students: Rs. 1000/-</td> <td>Rs. 500/-</td> </tr> <tr> <td>• For Faculty: Rs. 2000/-</td> <td>Rs. 1000/-</td> </tr> </table> <p>How to Apply? REGISTRATION DEADLINE: DECEMBER 5, 2024</p> <p>The Interested Candidates are required to submit registration fee in following Bank account and then apply online via google form link</p> <p>BANK DETAILS</p> <p>ACCOUNT # 05593003311185 TITLE: GOVERNMENT COLLEGE WOMEN UNIVERSITY, FAISALABAD BRANCH CODE: 0559 BANK NAME: NBP ABDULLAHPUR BRANCH, FAISALABAD</p> <p>APPLY ONLINE</p> <p>https://forms.gle/CtEgF9RE2vFOTKD?</p>	Physical Mode	Online Mode	• For Students: Rs. 1000/-	Rs. 500/-	• For Faculty: Rs. 2000/-	Rs. 1000/-	<p>2nd National and 1st International 03 Days Conference on NATURAL PRODUCTS: BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS NPBPA-2024 DECEMBER 18-20, 2024</p> <p>Jointly Organized by Department of Biochemistry, Government College Women University, Faisalabad Department of Biochemistry and Pharmaceutical sciences, Riphah International Islamic University, Faisalabad</p> <p>CONFERENCE VENUE Riphah International University, Faisalabad Campus/GCWUF</p>
Physical Mode	Online Mode							
• For Students: Rs. 1000/-	Rs. 500/-							
• For Faculty: Rs. 2000/-	Rs. 1000/-							

The 2nd National and 1st International 03 Days Conference Cum Workshop on “Natural Products: Biological and Pharmaceutical Applications”(Hybrid) was jointly arranged by Department of Biochemistry, Govt. College Women University Faisalabad (GCWUF) and Riphah International University Faisalabad (RIUF) on 18-20 December 2024.

The aim of current activity was to motivate the scientific community in shaping and designing their research activities in '*Herbalism*'. The specific objectives include; (i) Providing awareness about the usefulness of natural products, so the scientific community may direct its attention '*Back To Nature*'. (ii) Promotion of indigenous industry involved in trade of natural products to reduce expenses of import, especially related to synthetic medicines. (iii) Increasing the capacity of participants in learning of techniques and methods used in extraction, isolation and developments of natural products. (iv) Motivation for students to seek research career in fields related to herbalism by evaluating different research projects exhibiting development of various kinds of Natural/ Herbal formulations for its biological and pharmaceutical applications. (v) Exchange of valuable ideas among the experts of the fields to stimulate creation of marketable innovations. (vi) Addressal of the proposed SDGs by UNO including SDG No. 3 (Good health and well-being), 4 (Quality education), 9 (Industry/ innovation/ infrastructure), 13 (Climate action) and 17 (Partnership for the goals), the last one is the most important which motivates organizations for the development of partnerships to achieve goals and to promote social reach programs.

The inaugural ceremony at 1st day was held at *Khadija Auditorium, RIUF* with Recitation from the HOLY QUR'AAN AND NAAT SHAREEF. At welcome note, the **Patron of the event, Prof. Dr. Khalil-ur-Rehman**, Director Campus-Riphah International University Faisalabad (RIUF) briefed about objectives of the activity and presented a worldwide overview about the economic status of international herbal industry and described the current low position of Pakistani herbal industry in comparison so the remedial measures may be taken through awareness campaigns. In opening remarks, **Patron-in-Chief of the event, Prof. Dr. Mudassir Ahmad**, Chairman-RIUF praised the members of organizing committee especially the efforts of Prof. Dr. Khalil-ur-Rahman in arranging the managing the event on important cause. He welcomed the Chief Guest, Guest Speakers and the Students of both institutions at Riphah International University. The nominee of Vice Chancellor- University of Agriculture Faisalabad (UAF) **Prof Dr. Amer Jamil**- Director Academics, emphasized in his plenary lecture, the need of DNA barcoding of plants to have herbarium of high quality plant seeds and crops. The nominee from Vice Chancellor GCWUF, **The Pro-VC, GCWUF- Prof. Dr. Zill-i-Huma Nazli, Patron of the event** addressed the key benefits of the conference including institutional collaborations in research and launching new programs in academics regarding herbalism. She thanked the Chairman RIUF for providing space and financial support in management of a big event. **Dr. M. Tahir Khaleeq**, President Pakistan Nuclear Society PCS (R), Former DG-Nuclear Power Engineering, Informed that Pakistan Atomic Energy Commission

(PAEC) has done good work in producing high yielded crops in Pakistan and the scientists of its institutions in Faisalabad including NIAB and NIBGE are successfully working in introducing positive alterations in plant genome for better yield and protection against diseases. **Mr. Irfan Shahid**, CEO Awami Laboratories-Lahore, described the success story of business of herbal medicines in Pakistan. He explained very well the effectiveness of herbal products/ plant constituents in not only eradicating the common diseases, but controlling and managing the incurable diseases using plant products. He described the effectiveness of its herbal products including Uri Pro, Liv Pro, PilesEx and SlimSamrt with patients history. The **Chief Guest of the event, Prof. Dr. Khalid Mehmood Khan (S.I.)**, President Pakistan Academy of Sciences, Ex.-Chairman- Pakistan Science Foundation, Ex.-Vice Chancellor- Arid Agriculture University, Rawalpindi) praised the efforts of both institutions in developing collaboration under social reach program and appreciated that government institutions are now following the practice of collaborative efforts in extending the outcomes of science and technology to society. He valued and forced to organize such events in collaborations for progress and strength of Herbal Industry of Pakistan, so indigenous products may be marketed to reduce expenses on import of life saving drugs and medicines. **Dr. Mubshara Saadia, Convener/ Secretary of the event** and Chairperson Department of Biochemistry, GCWUF thanked all the guests, especially to Director Campus and the Chairman, RIUF for providing very support in organizing such a big event. She briefed that her department has got statutory approval of introducing 02- courses on herbalism. The current event has got 500+ registrations, 50+ Speakers from different disciplines related to natural products from all over Pakistan (Kashmir/ Gilgit to Sindh) including abroad, 15+ stalls, 15+ Posters and 03- practical sessions. She further insisted that the regular conduction of such events would help in “*Revival of Herbalism*” in Pakistan, so we may compete with Indian and Chinese herbal markets. At this time a Memorandum of union (MOU) was also signed between Chairperson Department of Biochemistry, GCWUF and Chairperson Department of Biochemistry and Biotechnology RIUF for developing cooperation in different academic and research disciplines. The Chief Guest of the event distributed souvenirs among honorable guests and guest speakers at the end of inaugural session. After tea the honorable guests visited the stalls and posters, and appreciated the efforts of students who have displayed their herbal products and outcomes of the research studies. After lunch, the technical session was conducted in 03 rooms at RIUF and **15-speakers** highlighted the salient outcomes of their research studies.





The 2nd day of the event was organized at GCWUF. Two vice chancellors honored the event at closing ceremony. The ***Chief Guest*** of the event was **Prof. Dr. Rauf-i-Azam**, the Worthy Vice Chancellor- GCUF (GC University Faisalabad), the Worthy Vice Chancellor- UOJ (University of Jhang) **Prof. Dr. Faheem Aftab** was ***Guest of Honor***. **Prof. Dr. Farhat Jabeen**, Dean Faculty of Life Sciences, GCUF also honored the event as ***Guest of honor***. **Prof. Dr. Kanwal Ameen (T.I.) (Guest of Honor)** welcomed the guests along with Pro-VC, GCWUF **Prof. Dr. Zill-i-Huma Nazli** and Chairperson Department of Biochemistry GCWUF **Dr. Mubshara Saadia**. In her remarks, the Dean Faculty of Life Sciences- GCUF **Prof. Dr. Farhat Jabeen** appreciated the organization of event on herbalism and call it the need of time. In her welcome note the Worthy Vice Chancellor GCWUF, **Prof. Dr. Kanwal Ameen (T.I.)** expressed good feelings in conduct of conference on ‘Natural Products’ and shared the benefits of practicing natural remedies in usual life to have healthy life style avoiding medical complexities. She thanked the VCs of both universities and put forth the suggestion of joint ventures, beneficial for academia and research so the society may get benefits of research outcomes in field. **The *Guest of Honor*, Prof. Dr. Faheem Aftab**, the Worthy Vice Chancellor- University of Jhang informed that he is a ***Plant Scientist*** and know the inherent benefits of plants to mankind. He shared his words of wisdom by expressing the medicinal importance of some plants including the medicinal value of plant steroids. **The *Chief Guest of the event* Prof. Dr. Rauf-i-Azam**, the Worthy Vice Chancellor- GCUF emphasized that professionals of the field should come forth to boost economy of Pakistani Herbal Products. He suggested in his words of wisdom that students should seeks good entrepreneurship to support their livelihood and be beneficial to yourself and for the nation as well. He appreciated the efforts of organizer and the team of VC-GCWUF in establishing linkages with sister institutions. The chairperson of the department and convener of the event expressed that GCWUF and its faculty is motivating students for better career opportunities by designing new courses and programs. She thanked to all the guests for honoring the faculty and students of GCWUF. Souvenirs were awarded among honorable guests and guest speakers at the end of the closing ceremony.

The technical sessions were started after tea and lunch breaks to guests and mostly covered through On-Line mode. **Prof. Dr. Abdul Razaq, Acting Vice Chancellor/ Director QEC- Karakoram International University (KIU), Gilgit Biltistan (*Guest of honor*)** shared his ***plenary Lecture***. He described that the land of GB is very rich with medicinal plants and almost all the population treat their usual diseases with plant remedies. He described the medicinal value of some native plants and their drug like effects. **Dr. Muhammad Naem Ahmad**, Chairman, Department of Chemistry- University of ***Azad Jammu & Kashmir (UAJK) Muzaffarabad***, was also guest speaker who described the biological importance of Azoles and also described the medicinal values of plants native to AJK. **Prof. Dr. Imran Khatri**, Department of Entomology, Sindh Agriculture University, Tandojam, ***Sindh*** also joined the session through on-line source and described the importance of medicinal plants of Sindh focusing on their biological & pharmaceutical

applications. **Dr. Abdur Rauf**, from Department of Chemistry, University of Sawabi, Khyber Pakhtunkhwa (KPK) delivered his on-line talk on Isolation and characterization of Dimeric Naphthoquinones from *Diospyros lotus* and discussed its detail biological studies for Discovery of New Drug. **Dr. Nurul Shazini Ramli**, Department of Food Science, Universiti Putra Malaysia, shared her recorded talk on “Identification of metabolites in underutilized fruit using NMR-based metabolomics”, **Dr. Ezzat Binti Mohammad Azman**, Department of Food Technology, Universiti Putra Malaysia shared recorded talk on “Exploring the Potential of Mangosteen Pericarp as a Source of Bioactive Compounds for Us as Natural Food Colorants”, **Dr Mobina Ulfat**, Associate Professor, Department of Botany, LCWU, Lahore; PostDoc Research Fellow in Agriculture Department of Applied Biological Chemistry, The University of Tokyo, Japan, shared her recorded talk on “Plant based antifungal compounds: isolation, identification and applications”. **Dr. Lubna Khatoon**, Faculty of Health Science, DIS, Copenhagen, Denmark shared the recorded talk on Review of medicinal plants in Denmark/ Nordic countries.

Guest speakers of 17 reputed university joined the event including NIAB, NIBGE, University of Agriculture Faisalabad (UAF), GC University Faisalabad (GCUF), University of Lahore (Sargodha Campus), Superior University (Sargodha Campus), University of Sargodha (UOS), University of Punjab (PU), University of Education Lahore (UE), Women University Multan, Islamia University Bahawalpur (IUB), Ghazi University Dera Ghazi Khan (GU), Sardar Bahadur Khan Women’s University, Quetta-Balochistan, Sindh Agriculture University, Tandojam- Sindh, University of Sawabi- PKP, University of Azad Jammu & Kashmir (UAJK) Muzaffarabad, and Karakoram International University (KIU)- Gilgit Biltistan (GB). More than 25 speakers from all over Pakistan and abroad participated at 2nd day to shared their talks and research outcomes in technical sessions using hybrid mode.





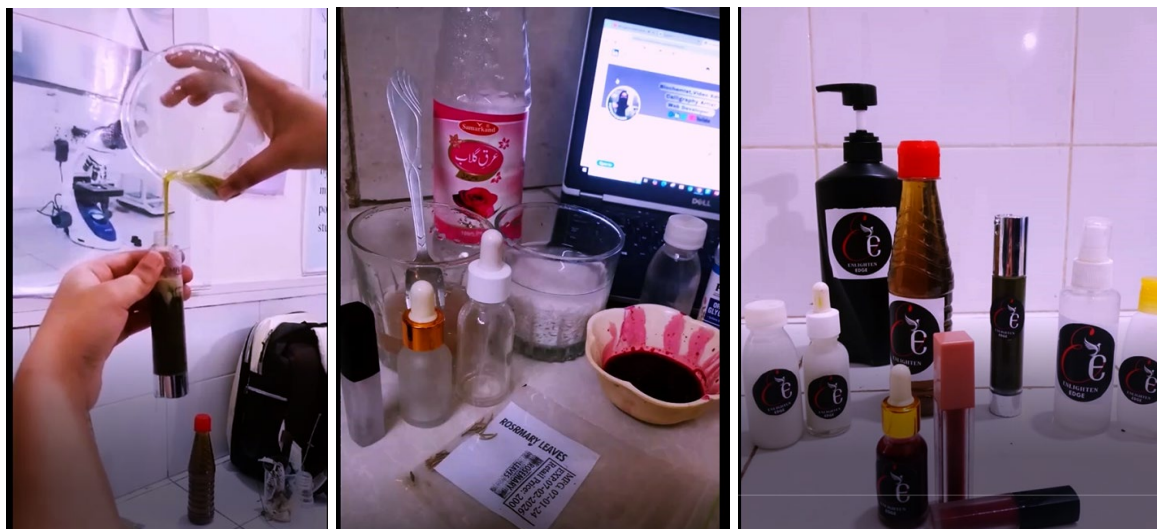
The 3rd day of the event was mainly the workshop day except some talks from experts of the fields. After recitation and Naat Sharif, **Prof. Dr. Khalil-ur-Rehman**, Director Campus- Riphah International University (RIUF), welcomed all the participants of the conference, briefly described the need of workshop for the participants and thanked the guest of honor of the day, **Prof. Dr. Ijaz Rasool Noorka**, Chairman-Department of Plant Breeding & Genetics (PBG), University of Sargodha (***Guest of Honor***). He also chaired the technical session. In his address, Prof. Dr. Ijaz Rasool Noorka talked on the need of availability of quality food and food security. He also emphasized on the adaptation of ethical values in scientific research and in routine life. The Coordinator, Faculty of Management Sciences GCWUF, **Prof.**

Dr. Saima Akram also joined the event and appreciated the conduct of activity on ‘Natural products’. **Professor Dr. Zill-i-Huma**, Pro-VC, GCWUF was the ***Chief Guest*** of the day, she thanked all the guests and distributed souvenirs among organizing committee members and the honorable guest speakers. After tea break, the plenary talk was delivered by **Prof. Dr. Muhammad Sher**, Director Institute of Chemistry, University of Sargodha (UOS) Sargodha. Three guest speakers discussed the use of different bioinformatics softwares in biology, especially in drug discovery through system biology (**Dr. Gulam Mustafa-GCUF**), on Molecular Docking (**Dr. Nargis Sultana- UOS**) and Computer Aided Drug Designing (**Dr. Fiaz-ur-Rahman- UOS**).



In labs. Ms. Maryam Afzal (GCUF), Dr. Riffat Iqbal (GCWUF), Dr. Sofia Perveen (GCWUF), Dr. Sadia Aslam (GCWUF), Mr. Ali Raza (Mujahid Hospital), MS. Sumbel Malik, Ms. Maryam Afzal and Ms Sameen (GCWUF) presented demonstrations and practical work for 7th semester students of GCWUF.





The 3rd day activity was ended with a note of thanks by Chairperson Department of Biochemistry to Worthy Vice Chancellor- GCWUF, Pro VC- GCWUF, Chairman RIUF, Director Campus RIUF, Honorable guests, faculty members, students and the organizing committee members especially, *Dr. Nadia Afsheen* from RIUF and *Dr. Sadia Aslam* from GCWUF. *Dr. Mubshara Saadia* described that almost all the objectives of the event have been attained satisfactorily, however the workshop part of the event should be extended to more time than the allocated time frame.

She informed that more than 80% of the participants showed consent on regular conduction of such activities in a feed-back Proforma.

She ended the note with a news about next venture of organizing a *workshop* along with an *Expo- of Natural Products* comprising the leading companies/ organizations of Pakistan working on herbal products.

2nd National and 1st International 03-Days Conference Cum Workshop on
“Natural Products: Biological and Pharmaceutical Applications”
(Hybrid)
(December 18-20, 2024)
Department of Biochemistry, GCWUF, Faisalabad.

Feed Back Proforma/ Scientific Survey

Name: _____

Profession (If Student, Session/ Semester): _____

Age: _____

Place/ Residency: _____

Institution: _____

Email: _____

Questions	Strongly Disagreed (<25%)	Disagreed (<50%)	Agreed (>50%)	Strongly Agreed (>80%)
1. At what extent you experienced this activity a fruitful venture.				
2. Do you think that the health issues regarding bone weakness and depressed immunity have increased from last 25 years (Since 2000)?				
3. Have you experienced back/ limb pain or bone issues before age of 40?				
4. Do you suppose that this event may play effective role in providing awareness about usefulness of herbal therapies/ treatment?				
5. Would such events be arranged regularly for revival of “Herbalism”?				
6. Would such events support indigenous herbal industry by showcasing the products of Pakistan herbalists?				
7. At what extent you prefer herbal remedies over synthetic medications?				
8. Do you think that Herbalism will progress rapidly in Pakistan if the quality control measures may be regulated by respective Govt. Agencies/ Departments?				

191 responses

[Link to Sheets](#)

Summary

Question

Individual

Who has responded?

Email

sadiaballo22@gmail.com

areebasaqib081@gmail.com

inaamhafa55@gmail.com

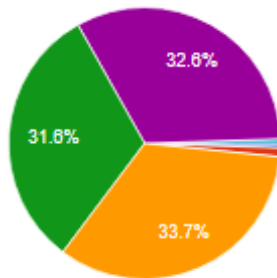
noorulhudakhan087@gmail.com

aulzahra412@gmail.com

Should such events be arranged regularly for revival of "HERBALISM"?

[Copy chart](#)

190 responses

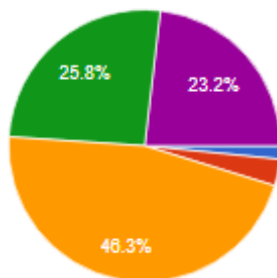


- Strongly Disagreed (<25%)
- Disagreed (<50%)
- Agreed (>50%)
- Strongly Agreed (>80%)
- Strongly Agreed (100%)
- Strongly Disagreed (0%)

Would such events support indigenous herbal industry by showcasing the products of Pakistan herbalists?

[Copy chart](#)

190 responses



- Strongly Disagreed (<25%)
- Disagreed (<50%)
- Agreed (>50%)
- Strongly Agreed (>80%)
- Strongly Agreed (100%)

Annexure

2nd National and 1st International 03-Days Conference Cum Workshop on

“Natural Products: Biological and Pharmaceutical Applications” (Hybrid)

Daily Planner and Conference Committees

(December 18-20, 2024)

Daily Planner/ Venue RIUF

Day 1- Wednesday, December 18, 2024

Inaugural Session

08:30 am - 09:00 am – Arrangements

09:00 am - 9:20 am – Recitation from the HOLY QUR’AAN AND NAAT SHAREEF

09:20 am - 09:30 am – Welcome Note by **Prof. Dr. Khalil-ur-Rehman**, Director Campus-Riphah International University (RIU), Faisalabad.

09:30 am - 09:40 am Opening Remarks by **Prof. Dr. Mudassir Ahmad**, Chairman- Riphah International University (RIUF), Faisalabad.

09:40 am - 09:55 am Words of wisdom by **Prof. Dr. Muhammad Asghar**, Vice Chancellor- Alkhair University (AJK). **(Guest of Honor)**

09:55 am - 10:10 am Words of wisdom by **Prof. Dr. Muhammad Afzal**, Vice Chancellor- Baba Guru Nanik University (BGNU), Nankana Sahib. **(Guest of Honor)**

10:10 am - 10:15am Words of Wisdom by **Prof. Dr. Muhammad Sarwar Khan**, Vice Chancellor- University of Agriculture Faisalabad (UAF) Faisalabad. **(Guest of Honor)**

10:15 am - 10:20am Remarks by **Prof. Dr. Zill-i-Huma Nazli**, Pro-Vice Chancellor, GCWUF.

10:20 am - 10:30am Words of Wisdom by **Prof. Dr. Kanwal Ameen (T.I.)**, Vice Chancellor- Govt. College Women University (GCWUF) Faisalabad. **(Guest of Honor)**

10:30 am - 10:50am Address of Prof. Dr. Khalid Mehmood Khan (S.I.), President Pakistan Academy of Sciences, Ex.- Chairman- Pakistan Science Foundation (PSF), Ex.-Vice Chancellor- Arid Agriculture University, Rawalpindi. **(Chief Guest)**

10:50 am - 10:55am Note of Thanks to Honorable Guests by Dr. Mubshara Saadia, Chairperson- Department of Biochemistry (GCWUF), Faisalabad.

MOU Signing Ceremony and Certificates Distribution to Guests Speakers: 10:55 -11:05 am
Tea Break: 11:05 – 11:25 am

Plenary Lecture- 11:25 am - 11:50 am (Khadija Auditorium)

**Prof. Dr. Amer Jamil, Director Academics- Ex.- Chairmen Department of Biochemistry, University of Agriculture
Faisalabad (UAF)**

“From bench to sustainable economic growth: Harnessing natural product potential”

Session for Dignitaries of the Field: 12:00 pm - 2:00 pm (Khadija Auditorium)

Chair: Prof. Dr. Khalil-ur-Rahman, Director Campus-RIUF.

Co-chair: Prof. Dr. Shazia Anwar Bukhari, Chairperson Department of Biochemistry-GCUF.

12:00 pm – Note by Prof. Dr. Shahid Iqbal , Director-University of Education, Faisalabad Campus (UE).
12:15 pm – Talk by Mr. Irfan Shahid , CEO Awami Laboratories-Lahore.
12:35 pm – Note by Dr. Shafqat Javed , Executive Director-Mujahid Hospital, Faisalabad.
12:45 pm – Note by Dr. M. Tahir Khaleeq , President Pakistan Nuclear Society PCS (R), Former DG-Nuclear Power Engineering, PAEC.
01:00 pm – Note by Prof. Dr. Farhat Jabeen , Dean-Faculty of Life Sciences-Govt. College University Faisalabad (GCUF).
01:15 pm – Note by Prof. Dr. Haq Nawaz Bhatti , Dean Faculty of Science, University of Agriculture, Faisalabad (UAF).
01:30 pm – Remarks by Prof. Dr. Zil-i-Huma , Pro-VC, GCWUF, Dean/ Coordinator, Faculty of Science & Technology, Govt. College Women University Faisalabad (GCWUF).

Lunch Break: 01:40 – 02:00 pm

Technical Session-I: 02:00 pm - 4:00 pm (Khadija Auditorium)

Chair: Prof. Dr. Farhat Jabeen, Dean, Life Sciences- GCUF.

Co-chair: Prof. Dr. Muhammad Zubair, Examination Executive- RIUF.

02:00 pm – Lecture 1	– Prof. Dr. Abida Raza Rao (University Institution of Biochemistry and Biotechnology, PMAS-Arid Agriculture University, Rawalpindi. Title: “How to build trust of stockholders in science”
02:20 pm – Lecture 2	– Prof. Dr. Muhammad Ramzan Saeed Ashraf Janjua, Department of Chemistry- Government College University Faisalabad (GCUF), Faisalabad. Title: “Challenges and Implications in Computational Chemistry”
02:40 pm – Lecture 3	– Prof. Dr. Anjum Zia, Chairman, Department of Biochemistry- University of Agriculture Faisalabad (UAF), Faisalabad. Title: “Uv mutagenesis of <i>Streptococcus pyogenes</i> ebl-35 for enhanced production of streptokinase”
03:00 pm – Lecture 4	– Prof. Dr. Mahmood-ul- Hassan, Principal Scientist- Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad. Title: “Impact of high value oil crops in the economy of Pakistan and opportunities for value added Products”
03:20 pm – Lecture 5	– Prof. Dr. Tahir Mahmood, Institute of Microbiology and Molecular Genetics- University of the Punjab, Quaid-e-Azam Campus, Lahore. Title: “Molecular identification, phytochemical characterization, and pharmacological potential of isolated compounds form <i>Momordica balsamina</i> ”
03:40–4:00 pm – Lecture 6	– Mr. Muhammad Yaseen Randhawa- Legumes Company (PVT), Faisalabad. Tite:

Technical Session-II: 02:00 pm - 4:15 pm (Room # 282/S-1)

Chair: Prof. Dr. Ayesha Sameen, Coordinator Faculty of Arts and Social Sciences- GCWUF.

C0-Chair: Dr. Yasir Mahmood, Head of Department of Pharmacy -RIUF.

02:00 pm – Lecture 1	– Dr. Arshad Hussain, Principal Scientist- Agronomic Research Station, Bahawalpur. Title: “Importance and production technology of medicinal plants”
02:20 pm – Lecture 2	Dr Uzma chohan, MBBS- FCPS, Associate Professor, Shaihdia Islam Medical College Lodhran, Founder and C.E.O Hamdard Blood Bank and Transfusion Services Bahawalpur. Title: “Thrombocytopenia: When to label, causes and treatment options- A quick review”
02:40 pm – Lecture 3	– Dr. Asam Raza Basra, Associate Professor, School of Chemistry-University of Punjab (PU), Lahore. Title: “Innovative Nature-Based Synthetic Drugs: Shaping the Future of Inflammatory Diseases Treatment”
03:00 pm – Lecture 4	– Prof. Dr. Muhammad Shahid, Department of Biochemistry- UAF, Faisalabad. Title: “Bioassays road map for natural products”
03:20 pm – Lecture 5	– Prof. Dr. Fathia Mubeen, Deputy Chief Scientist, Soil and Environmental Biotechnology Division- National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. Title: “NIBGE Biofertilizers & Biopesticide: from lab to field”
03:40 pm – Lecture 6	— Prof. Dr. Mian Anjum Murtaza, Director, Institute of Food Science and Nutrition- University of Sargodha (UOS), Sargodha. Title: “Nutritional and curative facets of bioactive peptides from fermented dairy foods”
04:00 – 04:15 pm – Lecture 7	— Dr. Abdul Tawab, Principal Scientist, Health Biotechnology Division, National Institute for Biotechnology and genetic Engineering (NIBGE), Faisalabad. Title: “Natural products; the sole remedial factors against diseases”

Technical Session-III: 02:00 pm - 4:15 pm (Room # 348/ S-3)

Chair: Prof. Dr. Tahir Mahmood, Institute of Microbiology and Molecular Genetics-PU Lahore.

Co-chairs: Dr. Abida Kausar, Chairperson, Department of Botany- GCWUF.

02:00 pm – Lecture 1	Prof. Dr. Muhammad Aamer Mehmood, Department of Bioinformatics and Biotechnology, Founding Executive Board Member and Secretary -General Asian Federation of Biotechnology, Pakistan. Title: “Algae-based decarbonization, resource recovery, recycling and bioproducts”
02:20 pm – Lecture 2	Prof. Dr. Nudrat Aisha Akram, Department of Botany- Government College University Faisalabad (GCUF), Faisalabad. Title: “Improvement in physio-metabolic processes by ascorbic acid obtained from natural sources in okra (<i>Abelmoschus esculentus</i> L.) under water deficit stress”
02:40 pm – Lecture 3	Prof. Dr. Muhammad Iqbal, Chairman, Department of Botany- Government College University Faisalabad (GCUF), Faisalabad. Title:
03:00 pm – Lecture 4	Prof. Dr. Yasir Mehmood, Head of Institution of Pharmaceutical Sciences and Quality Assurance, Riphah International University Faisalabad. Title: “The Value of Bio-Similar Medicines for Healthcare Systems”
03:20 pm – Lecture 5	Dr. Iram Hafiz, Assistant Professor, Institute of Chemistry, University of Sargodha, Sargodha Title: “Bio-preservative prospects of traditional species and herbs”
03:40 pm – Lecture 6	Dr. Kashif Iqbal, Lecturer, Institute of Physiology and Pharmacology, Faculty of Veterinary Sciences, University of Agriculture, Faisalabad (UAF). Title: “Challenges and Opportunities in Translating Natural Product Research into Clinical Applications”
04:00–4:15 pm – Lecture 7	Ms. Soha Pervaiz, Ph.D. Scholar- Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad. Title: “Evaluation of biochemical defence response of sesame (<i>Sesamum indicum</i> L.) mutant genotypes against phyllody disease”

End of Day-I Activities 4:15 pm

Day 2- Thursday, December 19, 2024

Venue GCWUF

Welcome Session

08:30 am - 09:00 am – Arrangements

09:00 am - 9:20 am – Recitation from the HOLY QUR’AAN AND NAAT SHAREEF

09:20 am - 09:25 am – Welcome Note by **Dr. Mubshara Saadia, Chairperson- Department of Biochemistry, Govt. College Women University Faisalabad (GCWUF), Faisalabad.**

09:25 am - 09:35 am – Remarks by **Prof. Dr. Farhat Jabeen, Dean Faculty of Life Sciences, Professor of Zoology- Govt. College University Faisalabad. **(Guest of Honor)****

09:35 am - 09:45 am – Remarks by **Prof. Dr. Mudassir Ahmad, Chairman- Riphah International University, Faisalabad. **(Guest of Honor)****

09:45 am - 09:55 am – Remarks by **Dr. Shahid Soroya, Director General, Pakistan Institute of Education, Ministry of Federal Education and Professional Training, Pakistan **(Guest of Honor)****

09:55 am - 10: 05am – Remarks by **Prof. Dr. Zill-i-Huma Nazli, Pro-Vice Chancellor- GCWUF.**

10:05 am - 10:15 am – Words of Wisdom by **Prof. Dr. Faheem Aftab, Vice Chancellor University of Jhang (UOJ) Jhang. **(Guest of Honor)****

10:15 am - 10:25 am – Words of Wisdom by **Prof. Dr. Kanwal Ameen (T.I), Vice Chancellor- Govt. College Women University Faisalabad (GCWUF) Faisalabad. **(Guest of Honor)****

10:25 am - 10:35 am – Words of Wisdom by **Prof. Dr. Rauf-i-Azam, Vice Chancellor- Govt. College University Faisalabad (GCUF) Faisalabad. **(Chief Guest)****

10:35 am - 10:40 am – Note of Thanks by **Prof. Dr. Khalil-ur-Rehman, Director Campus-Riphah International University (RIU), Faisalabad.**

Certificates Distribution to Guest Speakers/ Conference Organizers: 10:40 - 11:00 am
Tea Break for Guests: 11:00 - 11:20 am

Plenary Lecture- 11:20 am - 11:40 am (Jinnah Auditorium)

Prof. Dr. Abdul Razaq, Acting Vice Chancellor/ Director QEC- Karakoram International University (KIU), Gilgit Biltistan (Guest of Honor)

Technical Session-IV: 11:40 am - 1:30 pm (Jinnah Auditorium)

Chair: Prof. Dr. Mahmood-ul- Hassan, Principal Scientist- Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad.

Co-chairs: Dr. Madiha Ilyas, Head of Department of Human Nutrition and Dietetics- GCWUF.
Dr. Tamseela Mumtaz, Head of Department of Zoology- GCWUF.

11:40 am – Lecture 1 – Dr. Muhammad Naeem Ahmad, Chairman, Department of Chemistry- University of Azad Jammu & Kashmir (UAJK), Muzaffarabad. Title: “Design, Synthesis, and Structural Studies of Some Azoles as Important Biological Scaffolds”
12:00 pm – Lecture 2 – Dr. Fazli Rabbi Awan, Principal Scientist, National Institute for Biotechnology and genetic Engineering (NIBGE), Faisalabad. Title:
12:20 pm – Lecture 3 – Dr. Shumaila Kiran, Associate Professor, Department of Applied Chemistry- Government College University Faisalabad (GCUF), Faisalabad. Title: “A comprehensive overview on advanced approaches for remediation of textile waste water”
12:40 pm – Lecture 4 – Online – Prof. Dr. Ashraf Shaheen, Head of Department of Allied Health Sciences-Superior University Sargodha Campus, Ex. Director, Institute of Chemistry, University of Sargodha. Title: “Metal mediated isolation of bioactive compounds from plants”
12:55 pm –Lecture 5 – Online – Prof. Dr. Imran Khatri (Department of Entomology, Sindh Agriculture University, Tandojam, Sindh. Title: “Medicinal Plants of Sindh: Natural Products and Their Biological & Pharmaceutical Applications”
01:15- 1:30 pm – Lecture 6 – Online – Dr. Muhammad Ilyas, Assistant Professor, Group Leader, Centre for Omic Sciences-Islamia College University Peshawar. Title: “The Genetic and Phenotypic Analysis of Neurological Disorders in Khyber Pakhtunkhwa, Pakistan”
Lunch and Prayer Break 01:30-2:00 pm
<u>Technical Session-IV: 02:00 pm - 4:10 pm (Jinnah Auditorium)</u>
Chair: Dr. Naheed Akhtar, Associate Professor, Department of Biochemistry- GCUF. Co-chair: Dr. Shumaila Kiran, Associate Professor, Department of Chemistry-GCUF.
02:00 pm – Lecture 7 – Dr. Sadia Falak, Assistant Professor, Department of Biochemistry, University of Jhang (UOJ) Title:
02:15 pm – Lecture 8 – Mr. Ali Raza, Laboratory Manager, Mujahid Hospital, Madina Town, Faisalabad. Title: “Lab Safety Protocols/ Importance of Allied Health Sciences in Health Care System”
02:35 pm – Lecture 9 – Online – Dr. Muhammad Saleem, Associate Professor, Department of Chemistry- Ghazi University (GU-DGK) Dera Ghazi Khan. Title:
02:55 pm – Lecture 10 – Online – Dr. Nurul Shazini Ramli, Department of Food Science, Universiti Putra Malaysia Title: “Identification of metabolites in underutilized fruit using NMR-based metabolomics”
03:15 pm – Lecture 11 – Online –Dr. Ezzat Binti Mohammad Azman, Department of Food Technology, Universiti Putra Malaysia. Title: “Exploring the Potential of Mangosteen Pericarp as a Source of Bioactive Compounds for Us as Natural Food Colorants”

<p>03:35 pm – Lecture 12 – Online – Dr Mobina Ulfat, Associate Professor, Department of Botany, LCWU, Lahore; PostDoc Research Fellow in Agriculture Department of Applied Biological Chemistry, The University of Tokyo, Japan.</p> <p>Title: “Plant based antifungal compounds: isolation, identification and applications”</p>
<p>03:50 pm –Lecture 13 – Online – Dr. Lubna Khatoon, Faculty of Health Science, DIS, Copenhagen, Denmark.</p> <p>Title: “Review of medicinal plants in Denmark/ Nordic countries</p>
<p>04:10 pm – 04:25 pm – Lecture 14 – Online – Dr. Shamaila Rafiq, Herbicides Research Center, Aarhus-Denmark.</p> <p>Title: “Ethical Principles in Clinical research”</p>
<p style="text-align: center;"><u>Technical Session-V: 11:40 am - 1:30 pm (Committee/ Video Conference Room)</u></p> <p>Chair: Dr. Sadia Javed, Associate Professor, Department of Biochemistry-GCUF. Co-Chairs: Dr. Abida Kausar, Chairperson Department of Chemistry, GCWUF. Dr. Ayesha Younas, Chairperson Department of Physics- GCWUF.</p>
<p>11:40 am – Lecture 1 – Dr. Abdul Gaffar, Associate Professor, Department of Biochemistry- Government College University Faisalabad (GCUF), Faisalabad.</p> <p>Title: “Papase and natural bioactive compounds of <i>Carica papaya</i> to combat dengue”</p>
<p>12:00 pm – Lecture 2 – Dr. Shagufta Kamal, Associate Professor, Department of Biochemistry- Government College University, Faisalabad (GCUF), Faisalabad.</p> <p>Title: “A comprehensive overview of the Development of an Acetylcholine esterase-biosensing device for the detection of heavy metals”</p>
<p>12:20 pm – Lecture 3 – Online – Dr. Abdur Rauf, Associate Professor, Department of Chemistry, University of Sawabi, Khaibar Pakhtunkhwa (KPK).</p> <p>Title: “Isolation, Characterization of Dimeric Naphthoquinones from <i>Diospyros lotus</i> and its detail biological studies for Discovery of New Drug”</p>
<p>12:40 pm – Lecture 4 – Dr. Tahsin Gulzar, Associate Professor, Department of Chemistry- Government College University Faisalabad (GCUF), Faisalabad.</p> <p>Title: “Incredible health benefits of medicinal peppers”</p>
<p>12:55 pm – Lecture 5 – Dr. Ayesha Sultan, Associate Professor Department of Chemistry, University of Education, Lahore.</p> <p>Title: “Exploring discarded pea peels as potential source of phytochemicals and evaluation of antifungal potential of pea peel extract”</p>
<p>01:15 pm – 01:30 pm – Lecture 6 – Dr. Noreen Sajjad, Assistant Professor, Department of Chemistry, University of Lahore (UOL), Lahore.</p> <p>Title: “Catalytic Production of Biodiesel from Castor oil using Biogenic Synthesized Copper-Nickel Nanoparticles”</p>
<p style="text-align: center;">Lunch and Prayer Break 01:30 - 2:00 pm</p>
<p style="text-align: center;"><u>Technical Session-VI: 02:00 pm - 4:30 pm (Committee/ Video Conference Room)</u></p> <p>Chair: Dr. Shagufta Kamal, Associate Professor, Department of Biochemistry- GCUF. Co-chair: Mubbara Noreen, Head of Department of Geography-GCWUF.</p>
<p>02:00 pm – Lecture 7 – Dr. Sadia Javed, Associate Professor, Department of Biochemistry- Government College University Faisalabad (GCUF), Faisalabad.</p> <p>Title: “Probiotics encapsulation to ameliorate the viability and stability under gastrointestinal simulation”</p>
<p>02:15 pm – Lecture 8 – Dr. M. Farid-ul-Haq, Ph.D. Scholar, Department of Chemistry, University of Sargodha (UOS), Sargodha.</p> <p>Title: “Polysaccharide based hydrogel from seeds of Mugwort (<i>Artemisia vulgaris</i> L.): Stimuli responsive swelling behaviour and pharmaceutical applications”</p>

02:35 pm – Lecture 9 – Online	– Dr Sajjad Ali, Associate Professor of Chemistry and Director Academics- Karakoram International University (KIU), Gilgit Baltistan (GB).
Title:	“Medicinal Plants of Gilgit-Baltistan, An Ethnobotanical and Chemical Perspective”
02:50 pm – Lecture 10 – Online	– Dr. Syeda Laila Rubab, Associate Professor, Department of Chemistry- University of Education, Jauharabad Campus.
Title:	“Green Chemistry: A Key to Unlocking a Sustainable Future”
03:05 pm – Lecture 11 – Online	– Dr. Farida Bahlil (Assistant Prof., Department of Chemistry, Sardar Bahadur Khan Women’s University, Quetta, Balochistan.
Title:	“Synthesis, characterization and biological applications of nanoparticles”
03:20 pm – Lecture 12 – Online	– Dr. Raheela Jabeen, Assistant Professor, Department of Biochemistry, Women University Multan (WUM), Multan.
Title:	“Comparative Analysis of Bioactive and Abrasion Healing Potential of Fractional Extracts of Salix alba”
03:35 pm – Lecture 13 – Online	– Dr. Gulnaz Afzal, Associate Professor, Department of Zoology, Islamia University Bahawalpur (IUB)
Title:	“ The first report on erythrocytic alterations, histo-pathologies and oxidative damage caused by environmentally relevant concentrations of thiram in <i>Labeo rohita</i> ”
03:50 pm – Lecture 14	– Azqa Amjad, Ph.D. Scholar, Department of Chemistry- Government College University Faisalabad (GCUF), Faisalabad.
Title:	“Extraction and HPLC analysis of natural colorants from rosa indica, punica granatum, alkane tinctoria and their application in lip care products”
004:15 pm – 4:30 pm – Lecture 15 – Online	– Dr. Mahmood Ahmed, Department of Chemistry, Division of Science and Technology- University of Education, Lahore.
Title :	“Naproxen conjugated sulfonamides as urease inhibitors”
04:30 pm – Ending remarks by Dr. Mubshara Saadia/ Prof. Dr. Khalil-ur-Rahman	

End of Day-II Activities 4:30 pm

Day 3- Friday, December 20, 2024

Venue GCWUF

Welcome Session

08:30 am - 09:00 am – Arrangements

09:00 am - 9:20 am – Recitation from the HOLY QUR’AAN AND NAAT SHAREEF

09:20 am - 09:30 am – Welcome Note by **Dr. Mubshara Saadia, Chairperson- Department of Biochemistry, Govt. College Women University Faisalabad (GCWUF), Faisalabad.**

09:30 am - 09:35 am – Remarks by **Prof. Dr. Ayesha Sameen, Coordinator Faculty of Art and Social Sciences, GCWUF.**

09:35 am - 09:40 am – Remarks by **Prof. Dr. Saima Akram, Coordinator, Faculty of Management Sciences, GCWUF**

09:40 am - 10:00 am – Address by **Prof. Dr. Ijaz Rasool Noorka, Chairman-Department of Plant Breeding & Genetics (PBG), University of Sargodha (**Guest of Honor**)**

10:00 am - 10:10 am – Words of Wisdom by **Prof. Dr. Zill-i-Huma, Pro-Vice Chancellor, GCWUF. (**Chief Guest**)**

10:10 am - 10:20 am – Note of Thanks by **Prof. Dr. Khalil-ur-Rehman, Director Campus- Riphah International University (RIU), Faisalabad.**

Certificate Distribution and Tea Break for Guests: 10:20 - 10:40 pm

Plenary Lecture- 10:40 am - 11:00 am (Jinnah Auditorium)

Prof. Dr. Muhammad Sher, Director Institute of Chemistry, University of Sargodha (UOS) Sargodha
“Solubility enhancement of some poorly soluble drugs using solid dispersion method”

Technical Session-IV: 11:00 am - 01:15 pm (Room # Jinnah Auditorium)

Chair: Prof. Dr. Ijaz Rasool Noorka, Chairman-Department of Plant Breeding & Genetics (PBG), University of Sargodha (UOS).

Co-chairs: Prof. Dr. Zafar Iqbal, Chairperson, Department of Botany, University of Sargodha (UOS).

11:00 am – Lecture 1 – Dr. Nargis Sultana, Associate Professor, Institute of Chemistry- University of Sargodha (UOS), Sargodha. Title: “Molecular Docking: A Key for Drug Designing”
11:20 am – Lecture 2 – Dr. Muhammad Ameen, Head of Department of Chemistry- University of Lahore (UOL) Sargodha Campus, Sargodha. Title: “Cellulose ether derivatives: A versatile platform for drug delivery systems”
11:40 am – Lecture 3 – Dr. Ghulam Mustafa Assistant Professor Department of Biochemistry, Government College University Faisalabad Title: “Unlocking the Power of Network Pharmacology: Revolutionizing Drug Discovery through Systems

Biology and Multi-Target Therapeutics”	
12:00 pm – Lecture 4	– Dr. Asma Ashfaq, Lecturer, Department of Botany- University of Sargodha (UOS) Title: “The proximate composition of vegetables enriched by incorporation of municipal solid waste into fertilizers and its impacts on environment and human health”
12:20 pm – Lecture 5	– Dr. Rana Shahzad Akhtar, Department of Botany- University of Sargodha (UOS) Title:
12:20 pm – 1:15pm – Lecture 6	– Dr. Fiaz-ur-rehman, Associate Professor- Institute of Chemistry, University of Sargodha. Title: “Computer Aided Drug Designing with conventional and Artificial intelligence tools”
Lunch for Guests; 01:15-2:00 pm	
End of Day-III Activities; 02:00	

Practical Session for Selected Students at Laboratories (20th December, 2024)

Practical Session 10:00 am - 4:00 pm	
Time: 10:00 - 11:30 am for Section A1, Lab Work at <u>Biochemistry Research Lab.</u> Title: Inhibition assay of tyrosinase for applications in skin lightening. Instructor: Dr. Shagufta Kamal, Sumbel Malik, Anum Ali, Bakhtawar Sameer (GCUF).	Time: 10:00 - 11:30 am for Section B1 Lab Work at <u>SL-8.</u> Title: Extraction of bioactive compounds for therapeutic applications. Instructor: Dr. Naheed Akhtar, Ms. Maryam Afzal, Mamoon Tariq, Azka Razzaq (GCUF-Faisalabad)
Time: 11:30 am - 12:00 pm On Line Session, Title: “Anti-inflammatory activity of plant extracts against cell lines” Instructor: Dr. Hina Fatima (State Key Laboratory of Food Science and Resources, Nanchang University, Nanchang, China)	Time: 11:30 am - 12:00 pm On Line Session, Title: “Anti-inflammatory activity of plant extracts against cell lines” Instructor: Dr. Hina Fatima (State Key Laboratory of Food Science and Resources, Nanchang University, Nanchang, China)
Time: 12:00 - 01:00 pm for Section A1, Lab Work at Biochemistry Research Lab. Title: Determination of BMI and BMR Instructor: Dr. Riffat Iqbal (GCWUF)	Time: 12:00 - 01:00 pm or Section B1, Lab Work at SL-8. Title: Alpha amylase inhibition assay for evaluation of in vitro antidiabetic activity of plant extracts. Instructor: Dr. Mubshara Saadia, Ms. Noor ul Huda
Prayer Break 1:00 - 1:30 pm	
Time: 1:30 - 3:00 pm Lab Work at Biochemistry Research Lab. Title: Fractionation of alkaloid fractions by gel filtration column chromatography. Instructor: Dr. Sofia Perveen (GCWUF), Ms. Amna.	Time: 1:30 - 3:00 pm Lab Work at SL-8– Dr. Naila Rafiq (GCWUF) Title: Anti-bacterial activity using natural botanic Instructor: Khizra Imran
Time 3:00 - 4:00 pm Lab Work at Biochemistry Research Lab. Title: Lab Safety Protocols Instructor: Mr. Ali Raza	Time 3:00 - 4:00 pm Lab Work at SL-8. Title: Bio-risk management in Labs Instructor: Dr. Sadia Aslam

03-Days International Conference Cum Workshop on
Natural Products: Biological and Pharmaceutical Applications
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