

**15th ANRAP National Seminar
on
Antidiabetic Plant Materials:
Separation Techniques & Biological Testing
18 December 2021**

AND

**ANRAP Workshop
On Chemical Studies and Bioassay of Antidiabetic Plant Materials
19-23 December 2021**

**Venue: Bangladesh University of Health Sciences (BUHS)
125/1 Darussalam, Mirpur, Dhaka-1216**



**Organized by
Asian Network of Research on Antidiabetic Plants (ANRAP)**

Speakers who have already agreed to deliver lectures

Prof Begum Rokeya

Dept of Pharmacology

Bangladesh University of Health Sciences (BUHS), Dhaka

Prof Rahelee Zinnat

Dept of Biochemistry & Cell Biology

Bangladesh University of Health Sciences (BUHS), Dhaka

Prof Md Shahinul Haque Khan

Dept of Chemistry

Bangladesh University of Health Sciences (BUHS), Dhaka

Dr Achyut Adhikari

Tribhuvan University, Kathmandu, Nepal

Prof Dr Mohammad Shoeb

Dept of Chemistry, Dhaka University

Md AK Mahbubur Rahman Saki

Tibbia Habibia College, Dhaka

Dr M Hafizur Rahman

Dept of Biochemistry

Primeasia University, Dhaka

Mr Aminul Islam

Deep-Laid Pharmaco Ltd, Dhaka

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ASIAN NETWORK OF RESEARCH ON ANTIDIABETIC PLANTS (ANRAP)

11th WORKSHOP ON CHEMICAL STUDIES AND BIOASSAY OF ANTIDIABETIC PLANT MATERIALS

**19-23 December 2021
Programme**

19 December 2021 (Sunday)

08.30- 09:30 : Registration

09.30- 09.40 : Inauguration

10.00 -10.35 : **Lecture 1**
Diabetes: etiology, pathophysiology and complications
Prof AK Azad Khan
President, BADAS

10.35-11.00 : **Lecture 2**
The use of Animal Models in the study of Diabetes Mellitus
Prof Begum Rokeya
Dept of Pharmacology, BUHS

11.00- 11.30 : **Tea**

11.30-13.00 : **Practical Session: 1(Group A)**
Restraint and handling of laboratory animals
Development of type 1 & type 2 diabetic animal model

Practical Session: 2(Group B)

Laboratory animal feeding techniques.
Different methods of blood collection from rodents
Serum glucose measurement from rat & mice sample

13.00-14.00 : **Prayer & Lunch**

14.00-16.30 : **Practical Session 1 & 2 continued**

Rotation of Group A & B

1630-1700 **Tea & Discussion**

20 December 2021 (Monday)

09.00-09.45 : **Lecture 3**
Care & use of laboratory animals for biomedical research
Md Asrafuzzaman
Dept of Pharmacology, BUHS

09.45-10.30 : **Lecture 4**
In vivo & in vitro & techniques for screening of antidiabetic plant
extracts for hypoglycemic/ antihyperglycemic properties.
Prof Begum Rokeya
Dept of Pharmacology, BUHS

10.30-11.00 : **Tea**

11.00-13.00 : **Practical Session: 3**
Measurement of serum lipid profile from rat sample / Measurement of
hepatic glycogen content

1300-14.00 : **Prayer & Lunch**

14.00-16.30 : **Practical Session Continued**

1630-17.00 : **Tea & Discussion**

21 December 2021 (Tuesday)

0830-0910 : **Lecture 5**
Design for toxicity testing of antidiabetic plant extracts
Prof Begum Rokeya
Dept of Pharmacology, BUHS

0910-0950 : **Lecture 6**
Steps of tissue processing from animal sources in histopathology
laboratory
Prof Nasim Ahmed
Delta Medical College, Dhaka
Hands on training on histo-and histopathology sample processing

- 0950-1030 : **Lecture 7**
Chemical Studies of plant materials used in the treatment of diabetes
Prof Iqbal Rouf Mamun
Dept of Chemistry, University of Dhaka
- 1030-1100 : **Tea**
- 1100-1300 : **Practical Session 4**
Assessment of extra-pancreatic action of plant materials:
Gut perfusion technique/ Six segments of GIT
- 13.00-1400 : **Prayer & Lunch**
- 1400-1630 : **Practical Session 5**
Sample preparation from rodents for histopathological studies
- 1630-1700 : **Tea & Discussion**

22 December 2021 (Wednesday)

- 0830-0930 : **Lecture 8**
Selection, collection and extraction of Plant materials
Dr Md Ranzu Ahmed
Dept of Chemistry, BUHS
- 0930-1030 : **Lecture 9**
Fractionation, isolation and λ_{max} scanning of pure compounds from active extracts
Dr Md Shahinul Haque Khan
Dept of Chemistry, BUHS
- 1030-1100 : **Tea**
- 1100-1300 : **Practical Session 6**
Extraction of plant material & Evaporation of extract to dryness
- 1300-1400 : **Prayer & Lunch**
- 1400-1630 : **Practical Session: 7**
Selection of mobile phase for column chromatography by using thin layer chromatography (TLC) of the extract

1630-1700 : **Tea & Discussion**

23 December 2021 (Thursday)

0900-1000 : **Practical Session 8**
Preparation of Column, loading extract & running mobile phase through the column with increasing polarity of the mobile phase

1000-1030 : **Tea**

1030-1300 **Practical Session 9**
Monitoring of the column fractions by TLC and UV- Vis spectrophotometer

1300-1400 : **Prayer & Lunch**

1400-14:30 **Open Discussion, Closing Ceremony & Certificate distribution**

14:30-16:30 Practical Session 9 (Continue)

Correspondence

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