

**14<sup>th</sup> ANRAP National Seminar  
on  
Antidiabetic Plant Materials:  
Separation Techniques & Biological Testing  
19 December 2020**

**AND**

**ANRAP Workshop  
On Chemical Studies and Bioassay of Antidiabetic Plant Materials  
20-24 December 2020**

**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 Dr Faridul Alam**

*Vice-Chancellor*

*Bangladesh University of Health Sciences (BUHS), Dhaka*

**Prof Nilufar Nahar**

*Dept of Chemistry*

*University of Dhaka*

**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*

**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*

“Use face mask as recommended,  
Maintain social distancing and  
Stay healthy by washing your hands during COVID-19 pandemic”



**ASIAN NETWORK OF RESEARCH ON ANTIDIABETIC PLANTS (ANRAP)**

***10<sup>th</sup> WORKSHOP ON CHEMICAL STUDIES AND BIOASSAY OF  
ANTIDIABETIC PLANT MATERIALS***

**20-24 December 2020  
Programme**

**20 December 2020 (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**  
Care & use of laboratory animals for biomedical research.  
**Prof Dr ASM Hamidur Rahman**  
*Dept of Pharmacy, UODA*

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**

**21 December 2020 (Monday)**

09.00-09.45 : **Lecture 3**  
Animal models of diabetes mellitus  
**Prof Begum Rokeya**  
*Dept of Pharmacology, BUHS*

09.45-10.30 : **Lecture 4**  
Experimental design for screening of antidiabetic extracts for hypoglycemic/ antihyperglycemic properties (*in vivo* & *in vitro* & techniques)  
**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**

**22 December 2020 (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.
- 13.00-1400 : **Prayer & Lunch**
- 1400-1630 : **Practical Session 5**  
Sample preparation from rodents for histopathological studies
- 1630-1700 : **Tea & Discussion**

**23 December 2020 (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 and isolation 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**

**24 December 2020 (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

1300-1430 : **Prayer & Lunch**

1500-1600 : **Open Discussion, Closing Ceremony & Certificate distribution**

**Correspondence**

**Ms Nahida Islam Khan**

ANRAP Secretariat

Room No C-14

Bangladesh University of Health Sciences (BUHS)

125/ 1 Darussalam, Mirpur-1, Dhaka-1216

Mobile: 01973192591, 01726921403

E-mail: info@anrap.org; islam\_nahida@yahoo.com

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**on**  
**ANTIDIABETIC PLANT MATERIALS:**  
**SEPARATION TECHNIQUES & BIOLOGICAL TESTING**

**19 December 2020**

Venue: Bangladesh University of Health Sciences (BUHS)  
125/1 Darussalam, Mirpur  
Dhaka-1216  
Registration Fee – Tk 300.00

I wish to participate in the Seminar

Name .....

Position .....

Institution/ Organization .....

Address .....

Country .....

Tel ..... Fax .....

E-mail .....

Signature ..... Date .....

***Closing date for Registration: 12 December 2020***



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Registration Fee – Tk 3000.00

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