

# 9<sup>th</sup> WORKSHOP ON CHEMICAL STUDIES AND BIOASSAY OF ANTIDIABETIC PLANT MATERIALS



**16-20 November 2019**

**Venue:**

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

**Organized by**



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



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

### 9th WORKSHOP ON CHEMICAL STUDIES AND BIOASSAY OF ANTIDIABETIC PLANT MATERIALS

16-20 November 2019

#### Programme

#### 16 November 2019 (Saturday)

- 09.00- 09.30 : **Inauguration**
- 09.30-10.15 : **Lecture 1**  
Diabetes: etiology, pathophysiology and complications  
**Prof AK Azad Khan**  
*President, BADAS*
- 10.15-11.00 : **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**
- 14.00-16.00 : **Practical Session 1 & 2 continued**  
Rotation of Group A & B
- 16.00-16.30 : **Tea & Discussion**

## 17 November 2019 (Sunday)

- 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
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.00 : **Practical Session Continued**
- 16.00-16.30 : **Tea & Discussion**

## 18 November 2019 (Monday)

- 09.00-09.40 : **Lecture 5**  
Design for toxicity testing of antidiabetic plant extracts  
**Prof Begum Rokeya**  
*Dept of Pharmacology, BUHS*
- 09.40-10.20 : **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
- 10.20-11.00 : **Lecture 7**  
Chemical Studies of plant materials used in the treatment of diabetes  
**Prof Iqbal Rouf Mamun**  
*Dept of Chemistry, University of Dhaka*
- 11.00-11.30 : **Tea**

- 11.30-13.00 : **Practical Session 4**  
Assessment of extra pancreatic action of plant materials: gut perfusion technique.
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.00 : **Practical Session 5**  
Sample preparation from rodents for histopathological studies
- 16.00-16.30 : **Tea & Discussion**

### **19 November 2019 (Tuesday)**

- 09.00-10.00 : **Lecture 8**  
Selection, collection and extraction, of Plant materials  
**Dr Md Ranzu Ahmed**  
*Dept of Chemistry, BUHS*
- 10.00-11.00 : **Lecture 9**  
Fractionation and isolation of pure compounds from active extracts  
**Prof Md Shahinul Haque Khan**  
*Dept of Chemistry, BUHS*
- 11.00-11.30 : **Tea**
- 11.30-1300 : **Practical Session 6**  
Extraction of plant material & Evaporation of extract to dryness
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.00 : **Practical Session: 7**  
Selection of mobile phase for column chromatography by using thin layer chromatography (TLC) of the extract
- 16.00-16.30 : **Tea & Discussion**

## 20 November 2019 (Wednesday)

- 09.00-11.00 : **Practical Session 8**  
Preparation of Column, loading extract & running mobile phase through the column with increasing polarity of the mobile phase
- 11.00-11.30 : **Tea**
- 11.30-13.00 : **Practical Session 9**  
Monitoring of the column fractions by TLC
- 13.00-14.30 : **Prayer & Lunch**
- 15.00-16.30 : Open Discussion, Closing Ceremony & Certificate distribution

**Registration Fee: Tk 5000.00**

**Registration Deadline: 09 November 2019**





Please mail  
this form to the  
**ANRAP Secretariat**  
by **09 November 2019**  
Confirmation by  
e-mail will be  
accepted



**Correspondence**

**Ms Nahida Islam Khan**

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## Registration Form

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**Closing date for Registration: 09 November 2019**

*I wish to participate in the Seminar*

Name

Position

Institution/Organization

Postal address

Country

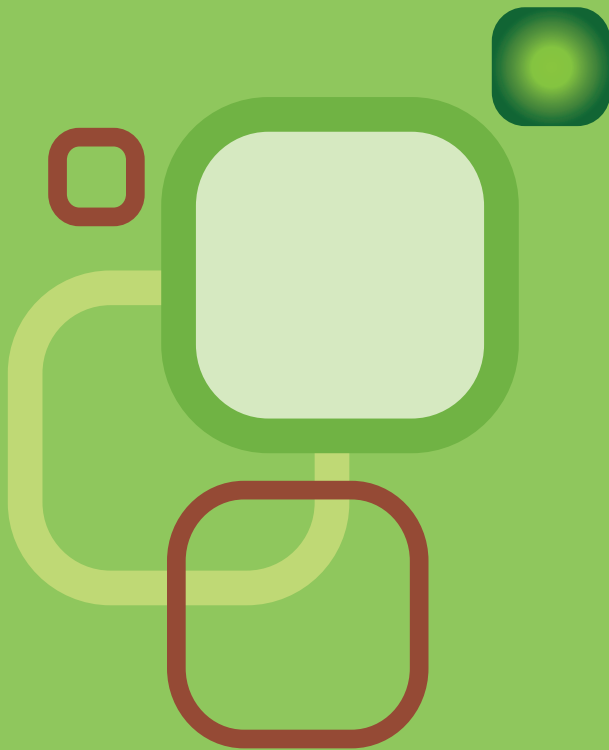
Tel

e-mail

Signature

Date

Pay Order/Check in the name "ANRAP" for TK.5000.00 is attached



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