

**18th ANRAP National Seminar
on
Antidiabetic Plant Materials:
Separation Techniques & Biological Testing
13 June 2026**

AND

**ANRAP Workshop
On Chemical Studies and Bioassay of Antidiabetic Plant Materials
14-18 June 2026**

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



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

**A Network Sponsored by International Sciences Program (ISP)
Uppsala University, Sweden**

Speakers who have already agreed to deliver lectures (Tentative)

Prof. Dr. Begum Rokeya

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

Prof. Dr. Md Shahinul Haque Khan

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

Prof. Dr. Md Iqbal Rouf Mamun

*Dept of Chemistry
University of Dhaka*

Prof. Dr. Hafizur Rahman

*Dept of Biochemistry
North South University, Dhaka*

Prof. Dr. Bishnu Prasad Sarma

Govt. Ayurvedic College, Assam, India

Prof. Dr. Balaram Roy

Hajee Mohammad Danesh Science & Technology University, Dinajpur

Dr. Md Mahbub Ali

Bangladesh Jute Research Institute, Dhaka

Dr. Achyut Adhikari

Tribhuvan University, Nepal

Dr. Ivan Lozada Lawag

The University of Western Australia, Australia

Mr Aminul Islam

Deep-Laid Pharmaco Ltd, Dhaka



ASIAN NETWORK OF RESEARCH ON ANTIDIABETIC PLANTS (ANRAP)

14th WORKSHOP ON CHEMICAL STUDIES AND BIOASSAY OF ANTIDIABETIC PLANT MATERIALS

14 -18 June 2026

Programme

14 June 2026 (Sunday)

0900- 09:30 : Registration

09.30- 09.50 : Inauguration

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

10.35-11.00 : **Lecture 2**
The importance of Animal Models in Biomedical Research
Animal Models of Diabetes Mellitus
Prof Dr Begum Rokeya
Dept of Pharmacology, BUHS

11.00- 11.30 : **Tea**

11.30-13.00 :**Practical Session: 1(Group A)**
Hands-on practice in rodent handling
Development of fructose fed-low STZ induced epigenetic mouse model of type 2 diabetes.

:Practical Session: 2 (Group B)
Basic rodent procedure, and aseptic surgical technique 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

16.30-17.00 **Tea & Discussion**

15 June 2026 (Monday)

- 09.00-09.45 : **Lecture 3**
Animal ethics to be followed during animal experimentation/ Concerns about care & use of laboratory animals for biomedical research.
Md Asrafuzzaman
Senior Research Fellow, ANRAP, BUHS
- 09.45-10.30 :**Lecture 4**
In vivo & in vitro techniques of screening of antidiabetic plant extracts for hypoglycemic/ antihyperglycemic properties using
Prof Dr Begum Rokeya
Dept of Pharmacology, BUHS
- 10.30-11.00 : **Tea**
- 11.00-13.00 : **Practical Session: 3**
RNA extraction & cDNA synthesis from Rat sample
Measurement of hepatic glycogen content
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.30 : **Practical Session Continued**
- 16.30-17.00 : **Tea & Discussion**

16 June 2026 (Tuesday)

- 08.30-09.10 :**Lecture 5**
The importance of toxicity testing with antidiabetic plant extracts using rodent model
Prof Dr Begum Rokeya
Dept of Pharmacology, BUHS
- 09.10-09.50 :**Lecture 6**
Steps of tissue processing from animal sources in histopathology laboratory
Prof Nasim Ahmed
Delta Medical College, Dhaka
- 09.50-10.30 : **Lecture 7**
Separation and isolation of chemical compounds from plant materials using HPLC
Prof Dr Iqbal Rouf Mamun
Dept of Chemistry, University of Dhaka

- 10.30-11.00 : **Tea**
- 11.00-13.00 :**Practical Session 4**
Assessment of extra-pancreatic action of plant materials:
using gut perfusion technique
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.30 : **Practical Session 5**
Sample preparation from rodents for histopathological studies
- 16.30-17.00 : **Tea & Discussion**

17 June 2026 (Wednesday)

- 08.30-09.30 : **Lecture 8**
Experimental approaches for the determination of bioactive constituents in medicinal plant extracts, with emphasis on phytochemical screening and antioxidant assays
Dr Md Ranzu Ahmed
Dept of Chemistry, BUHS
- 09.30-10.30 :**Lecture 9**
Extraction, Fractionation, isolation and characterization of pure compounds from plant materials
Prof Dr Md Shahinul Haque Khan
Dept of Chemistry, BUHS
- 10.30-11.00 : **Tea**
- 11.00-13.00 :**Practical Session 6**
Extraction of plant materials and concentration of extracts using a rotary evaporator, followed by drying using a freeze dryer
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-16.30 : **Practical Session: 7**
Serial dilution and determination of IC₅₀ using the DPPH assay with a UV-visible spectrophotometer
- 16.30-17.00 : **Tea**

18 June 2026 (Thursday)

- 09.00-10.00 : **Practical Session 8**
Qualitative phytochemical screening of plant extracts
- 10.00-10.30 : **Tea**
- 10.30-13.00 **Practical Session 9**
Monitoring of the column fractions by TLC and UV- Vis spectrophotometer
- 13.00-14.00 : **Prayer & Lunch**
- 14.00-14:30 **Open Discussion, Closing Ceremony & Certificate distribution**
- 14:30-16:30 Practical Session 9 (Continue)

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