

# DIT University Event Report

## SDG 3



**U**nited Nations' Sustainable Development Goals (SDG) promote the notion 'Ensure healthy lives and promote well-being for all at all ages' through SDG 3. Good Health is essential to render any service to society and humanity. It is the very basic requirement of individual and irrespective of persons at any level in society must get access to quality health care services, sufficient and necessary education to promote awareness about health. In addition to that, clean environment, purity in resources, hygienic work environment are essential for achieving this goal. DIT University is committed to achieve this goal by providing necessary education, free access of healthcare services, awareness campaign and collaborative research work with Government and Non-Government agencies.

# DIT University Event Report

## CONTENTS

<b>S. No.</b>	<b>Topics</b>	<b>Page No.</b>
1.	Preface	
2.	Collaboration with National Health Institution and outcomes	1
3.	Outcomes of MoU with FRI	2
4.	Outcomes of MoU with Blue Circle Medi Services Pvt Ltd	3-5
5.	Research Publications	6-10

# DIT University Event Report

## Collaboration with National Health Institution and outcomes

DIT University have active collaboration with FRI (Forest Research Institute), Dehradun. The significant outcomes of this collaboration has enrolled two PhD candidates namely, **Ms. Neha Kukreti (Roll No. 198168005) with her research entitle** *“Antioxidant Properties Mediate Nephroprotective and Hepatoprotective Activity of Essential Oil and Hydro-Alcoholic Extract of the High-Altitude Plant Skimmia anquetilia”* and **Ms. Ritu Rani (Roll No.198168006) with her research entitle** *“Therapeutic Effect of Tinospora cordifolia (Willd) extracts on Letrozole Induced Polycystic Ovarian Syndrome and its Complications in Murine Model”* registered in DIT University. Under this Collaboration four more students are pursuing his/her PhD, out of which one is registered with DIT University.

Additionally, DIT University has active collaboration with Blue circle MEDI SERVICES PVT LTD.

# DIT University Event Report

## DIT UNIVERSITY (FACULTY OF PHARMACY) MOUs Activities

### Outcomes from MoU with Forest Research Institute(FRI), Dehradun

**Ph.D Pursuing:** Ms. Neha Kukreti (Roll No. 198168005) and Ms. Ritu Rani (Roll No.198168006), Ms. Shilpa Rana (Roll No 208168002) registered in DIT University. Piyush Bhalla, Radhika Khanna and Anjali Bhat registered outside.

### **Published paper till 2020: 01**

1. N. Kukreti1 , R. Rani1 , V. K. Varshney and H. R. Chitme, Important Medicinal Plants Recommended in Management of Rheumatoid Arthritis, *Bangladesh Pharmaceutical Journal*, **2022**, 25(2): 125-136.

# DIT University Event Report

## MoU with Blue Circle Medi Services Pvt Ltd

DIT University has MoU with Blue Circle Medi Services Pvt Ltd. It organized a workshop on the “TRUST ON WOMEN” under the guidance of chief guest Dr. Vijay Laxmi Sharma and Dr. Sumita Prabhakar. Drs talked on the various role and responsivity of women and her rights. The event was successfully delivered and got benefitted to both the male and female staff.

The healthy body and mind are basic necessities for building a strong society that can think of constant progress. With this motto, DIT University extremely prioritizes on health related aspects both for educational perspectives and providing good health care facilities. For this, DIT University has signed MoUs with Blue Circle Medi Service Pvt. Ltd. The events photograph are attached here.

**OFFICE OF THE DEAN STUDENT WELFARE & DEPARTMENT OF CIVIL ENGINEERING, DIT UNIVERSITY**  
organise a workshop on  
**“TRUST ON WOMEN RIGHTS”**





**Chief Guest:**  
**Dr. Vijay Laxmi Sharma**  
Director, Faculty of Law,  
Manipal University, Jaipur



**Guest of Honor:**  
**Dr. Sumita Prabhakar**  
MBBS, MD (OBGYN), MRCOG(London),  
FICMCH



Friday, November 11, 2022  
3:00 PM-5:00 PM



Architecture Seminar Hall,  
Ground Floor

**Faculty Coordinator:** Ms. Dipika Keshri  
**Student Coordinator:** Ms. Priya Ramesh Singh

# DIT University Event Report



# DIT University Event Report





# DIT University Event Report

The screenshot shows the MDPI Nutrients journal website. The article title is "Regulation of Insulin Resistance, Lipid Profile and Glucose Metabolism Associated with Polycystic Ovary Syndrome by *Tinospora cordifolia*". The authors listed are Ritu Rani, Havagiray R. Chitme, Neha Kukreti, Pankaj Pant, Basel A. Abdel-Wahab, Masood Medleri Khateeb, Mohammed Shafiuddin Habeeb, and Marwa B. Bakir. The article is published in Nutrients 2023, 15(10), 2238. The abstract discusses the use of *Tinospora cordifolia* (TC) as a nutritional supplement and its potential benefits for health issues like diabetes and PCOS. The article is part of a Special Issue on "Nutritional Regulation of Insulin Resistance and Lipid Metabolism".

# DIT University Event Report

An official website of the United States government  
[Here's how you know](#)

The screenshot shows a web browser window with multiple tabs. The active tab is titled "In vitro and in vivo anti-inflammatory activity of Cupressus torulosa D.DON needles extract and its chemical characterization". The browser address bar shows the URL: <https://www.sciencedirect.com/science/article/pii/S037874123004464>. The ScienceDirect logo is visible in the top left corner of the page. The article title is prominently displayed in the center. Below the title, the authors are listed: *Radhika Khanna<sup>a,\*</sup>, U.S. Chinn<sup>b</sup>, Dhushabha Bhadrachari<sup>a</sup>, S.K. Tripathi<sup>a</sup>, U.K. Mishra<sup>a</sup>, A. ...*. The article is published in the *Journal of Ethnopharmacology*, Volume 344, 2023, Article ID 115019. The page includes a table of contents on the left, a list of figures (17) and tables (7), and a main text area with sections for Highlights, Abstract, and Ethnopharmacological relevance. The Highlights section lists key findings:
 

- In our study we aim to validate the traditional usage of leaves to possess anti-inflammatory (AI) activity.
- It was evaluated for in vitro anti-inflammatory activity by protein denaturation assay.
- The extract was further evaluated for in vivo AI activity by carrageenin and formalin induced models.
- The results of both the activities were comparable to the standard used i.e. diclofenac.
- Traditional use is validated and this plant can be used as a potent candidate in the treatment of inflammation.

 The Abstract section states: "Ethnopharmacological relevance: *Cupressus torulosa* (Family Cupressaceae), widely distributed in the north western Himalayan region of India, is a coniferous aromatic tree with various traditional uses of its aerial parts. Its needles have been used for anti-inflammatory, antimicrobial, antitumor, antineoplastic, and wound-healing properties. Aim of the study: The study aimed at investigating the previously unknown anti-inflammatory activity of the hydromethanolic extract of the needles employing in vitro and in vivo assays and scientifically validate traditional claim of their use in treatment of inflammation."

The screenshot shows the MDPI website interface for the journal *Antioxidants*. The article title is "Antioxidant Properties Mediate Nephroprotective and Hepatoprotective Activity of Essential Oil and Hydro-Alcoholic Extract of the High-Altitude Plant *Skimmia anquetilia*". The authors listed are Neha Kukreti, Havagiray R. Chitme, Vinay K. Varshney, Basel A. Abdel-Wahab, Masood Medleri Khateeb, and Mohammed Shafiuddin Habeeb. The article is published in *Antioxidants* 2023, 12(6), 1167. The abstract states: "There are many high-altitude plants such as *Skimmia anquetilia* that are unexplored for their possible medicinal values. The present study was conducted to examine the antioxidant activities of *Skimmia anquetilia* (SA) using in vitro and in vivo models. The SA hydro-alcoholic extracts were investigated using LC-MS for their chemical constituents. The essential oil and hydro-alcoholic extracts of SA were evaluated for pharmacological properties. The antioxidant properties were evaluated using in vitro DPPH, reducing power, cupric reducing antioxidant power, and metal chelating assays. The anti-hemolytic activity was carried out using a human blood sample. The in vivo antioxidant activities were evaluated using CCL<sub>4</sub>-induced hepatotoxicity and nephrotoxicity assay. The in vivo evaluation included histopathological examination, tissue biochemical evaluation such as the kidney function test, catalase activity, reduced glutathione activity, and lipid peroxidation estimation. The phytochemical investigation showed that the hydro-alcoholic extract contains multiple bioactive entities, including polyphenols, flavonoids, and terpenoids." The page also features a sidebar with navigation options like "Submit to this Journal", "Review for this Journal", and "Propose a Special Issue", along with an "Article Menu" and "Academic Editors" section.

The screenshot shows a web browser window with the ResearchGate article page. The browser tabs include 'WUR Portal', 'Academia', 'Mail - Tarumay', 'Attachments -', 'Antiallergic activ', '(6) WhatsApp', and 'Effect of Tinospo'. The address bar shows the URL: [researchgate.net/publication/370159402\\_Effect\\_of\\_Tinospora\\_cordifolia\\_on\\_gestational\\_diabetes\\_mellitus\\_and\\_its\\_complications](https://researchgate.net/publication/370159402_Effect_of_Tinospora_cordifolia_on_gestational_diabetes_mellitus_and_its_complications).

**Article**  
**Effect of Tinospora cordifolia on gestational diabetes mellitus and its complications**  
 April 2023 *Women & Health* 63(2):1-11  
 DOI:10.1080/03630242.2023.2197083

**Authors:**  
 Ritu Rani, Havagiray Chitme (Dehradun Institute of Technology), Avinash Kumar Sharma

Buttons: [Download citation](#), [Copy link](#)

[Citations \(3\)](#) [References \(38\)](#)

**Abstract**  
 Ayurvedic system of medicine uses giloy or guduchi, also known as Tinospora cordifolia (TC), to treat diabetes and related diseases like hyperglycemia and hyperlipidemia. However, its usage in gestational diabetes mellitus (GDM) is not well studied. The primary objective of the study was to examine the effects of water extract of TC called satva, essential oil, and hydroalcoholic (HA) extract on GDM and its complications and to explore their mechanism of action using mice model. We used streptozotocin-induced diabetes in pregnant mice as murine model and tested TC preparations for anti-GDM activities. Blood glucose, insulin, litter size, and placental weight were assessed. ELISA method was used to measure plasma insulin level to compute homeostatic model assessment of insulin resistance (HOMA-IR), quantitative insulin sensitivity check index (QUICKI), and homeostatic model assessment for assessing beta cell function (HOMA-Beta) levels to estimate insulin resistance, insulin sensitivity, and beta cell function respectively. TC-treated groups had significantly higher serum insulin levels, QUICKI, average litter size, and lower placental weight ( $p < .001$ ). TC oil and HA extract increased pancreatic beta cell activity according to the level of HOMA-Beta. TC lowered placenta weight and increased litter size significantly compared to control group. Our findings suggest that TC preparations preserve pancreatic beta cells, increase insulin production, decrease insulin resistance, and improve beta cell function, hence preventing GDM. TC preparations also reduced placental weight and increased litter size in mice. Based on these results, we recommend the clinical trial and testing of TC preparations for management of GDM and associated complications. Refer graphical abstract (Figure S1).

**ResearchGate**  
 Discover the world's research  
 • 25+ million members  
 • 160+ million publication pages  
 • 2.3+ billion citations  
[Join for free](#)

**Advertisement**  
 Win Assured *Big*  
 20% off coupon  
 Get a 20% off coupon

# DIT University Event Report

The screenshot shows a web browser window displaying a Springer Link article. The browser's address bar shows the URL: [link.springer.com/article/10.1007/s40629-023-00247-8](https://link.springer.com/article/10.1007/s40629-023-00247-8). The page header includes the Springer Link logo and navigation options like 'Find a Journal', 'Publish with us', and 'Search'. The article title is 'Antiallergic activity of *Skimmia anquetilia* on ovalbumin-induced allergic rhinitis, dermatitis, paw oedema and mast cell degranulation'. The authors listed are Neha Kukreti, Havagiray R. Chitme, and Vinay Kumar Varshney. The article is published in *Allergo Journal International* (2023). The price for the article is 39,95 €, which includes VAT (India) and provides instant access to the full article PDF. The article is categorized under 'Allergo Journal International' and 'Article'. The 'Background' section discusses asthma, allergic rhinitis, acute dermatitis, allergic skin reactions, and hypersensitivity reactions, noting that these conditions are difficult to treat. The study's purpose was to prepare *Skimmia anquetilia* (SA) extracts and test their antiallergenic characteristics in various animal models. The 'Results' section mentions that gas chromatography-mass spectrometry (GC-MS) analysis identified active constituents including  $\alpha$ -pinene,  $\alpha$ -phellandrene, gerijerene,  $\beta$ -carene, and  $\beta$ -ocimene, and that SA extract treatment resulted in improved overall health and reduced nasal allergy symptoms.