



*Talk on*  
**“Natural Products as Potential Anticancer  
Lead Molecules: from idea to market”**

**Date : 3<sup>rd</sup> December 2021**  
**Session Time: 2:00PM to 5:30PM**

**Report Submitted by**  
**Institution’s Innovation Council**  
**Nirmala College of Pharmacy, Muvattupuzha,**  
**Ernakulam District , Kerala**



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**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of Education Initiative)



## **Program Details**

**Programme Title:** Talk on “Natural Products as Potential Anticancer Lead Molecules: from idea to market”

**Program type :** Self driven

**Category:** Innovation and Entrepreneurship

**Date :** 3<sup>rd</sup> December 2021

**Session Time:** 2:00P.M. to 5:30 P.M.

**Registration Link:**

[https://docs.google.com/forms/d/e/1FAIpQLSdxE2TEJ1zad\\_vGUh](https://docs.google.com/forms/d/e/1FAIpQLSdxE2TEJ1zad_vGUh)

[LukVuLORFgvoIk-G0OIyk0vuOD-iamZA/viewform](https://docs.google.com/forms/d/e/1FAIpQLSe48NijC3UHuZRoZ)

**Feedback link :**

<https://docs.google.com/forms/d/e/1FAIpQLSe48NijC3UHuZRoZ>

[G\\_97dTFkzSxSljBB3O\\_e98Qg86\\_gRGSw/viewform](https://docs.google.com/forms/d/e/1FAIpQLSe48NijC3UHuZRoZ)

**Total Number staff and students Participated:** 100

Youtube link : <https://youtu.be/U9PJ3MDo6Mo>

**Speaker Profile :**

Ruby John Anto, PhD, FNASc

Scientist G

Rajiv Gandhi Centre for Biotechnology

Kerala

### **Academic Honors**

Fellow, National Academy of Sciences, Allahabad

Fellow, Academy of Sciences, Thiruvananthapuram, India

### **Awards**

2019

Keystone Symposia Global Health travel award by Bill and Melinda Gates Foundation to attend Keystone Symposia meeting, 'Why So Many Ways to Die? Apoptosis, Necroptosis, Pyroptosis and Beyond', Guarujá, São Paulo, Brazil. November 19-23, 2019

2015

Excellence award for outstanding performance, RGCB, Promotion assessment committee

2004

National Woman Bio-Scientist Award, DBT, Govt of India

1995

Fr. Gabriel Golden Jubilee Award for best paper: Amala Cancer Research Centre, Thrissur

### **Patents**

Awarded

Ruby John Anto, A chemotherapeutic composition used in the treatment of cancer: Filing Number: #1184/Del/2004. IPR- Patent number: 241416, Date of grant-02/07/2010: Funding by DBT, Govt. of India

Ruby John Anto and Lakshmi R Nath, Uttroside B and derivatives thereof as therapeutics for hepatocellular carcinoma, funding by Rajiv Gandhi Centre For Biotechnology.

Uttroside B And Derivatives Thereof As Therapeutics For Hepatocellular Carcinoma

National Patent Application No. 201641018401 dated 28th May 2016

International patent Application No. PCT/ IN20 17/050204 dated 27th May 2017

Technology transfer/commercialization

Signed an MOU with Oklahoma Medical Research Foundation, USA for the clinical translation of Uttroside B in liver cancer patients.

Transferred the technology to the multi-national company, Q Biomed. And received the first milestone payment.

(<https://adisinsight.springer.com/drugs/800048876>);

<https://qbiomed.com/index.php/pipeline/uttroside>.

Filed

Ruby John Anto and Jayesh Antony, Extracts from a plant, processes for obtaining the extracts and fractions and applications thereof, Filed on: 20.09.2010, Patent Application No. 2743/CHE/2010: Funding by RGCB

C Mohandas, Bala Nambisan, Ruby John Anto, Vino T. Cheriyan and S. Nishanth Kumar. Anticancer activity of a cyclic dipeptide isolated from novel bacteria associated with Rhabditis sp., Filed on: 11-03-2011 Patent Application No. 820/CHE/2011). Funding by Indian Council for Agricultural Research

## **TOPIC COVERED**

- **Entrepreneurship**
- **Innovation**

## **Program highlights and description**

A seminar on “Natural Products as Potential Anticancer Lead Molecules: from idea to market” was held on 03-12-2021, 2:00 pm-.5:00 pm at Nirmala College of Pharmacy Muvattupuzha.

The aim of the webinar was to give the participants an insight into the concept of cancer drug development from natural products. The program was organized by Department of Pharmaceutical Chemistry, Nirmala College of Pharmacy, Muvattupuzha.

Dr. Ruby John Anto , Scientist G, Rajiv Gandhi Center for Biotechnology, Trivandrum has delivered the talk.

The targeted audience was Academicians, BPharm, and MPharm students. More than 100 participants have registered for the seminar. The seminar was conducted in college seminar hall.

The workshop opened on an auspicious note with a welcome address by Dr. Deepa Jose, Vice Principal, Nirmala College of Pharmacy. The Administrator of Nirmala College of Pharmacy Rev. Fr. Jos Mathai Myladiyath blessed the event with his enlightening words. Dr.

Badmanabhan R. Principal, Nirmala College of Pharmacy gave Felicitation Speech.

Dr. Prasanth Francis, Associate professor, Dept Pharmaceutical Chemistry, Nirmala College of Pharmacy was the chairman of the session. He introduced the speaker to all the delegates.

The speaker of the day Dr. Ruby John Anto , started the session by introducing the basics of cancer studies. He explained the various aspects and approaches of anti-cancer drug screening with the help of various examples.

The session was very interactive and all the delegates participated enthusiastically. The program has been officially concluded and vote of thanks was given by Dr. Prasanth Francis, Associate professor, Dept Pharmaceutical Chemistry, Nirmala College of Pharmacy as a token of appreciation to the speaker.

Feedback about the program was collected and participation certificate was issued to all delegates. The session was recorded and uploaded in Nirmala College of Pharmacy Youtube channel and now the session is available online.

### **Program Outcome**

Natural Products as Potential Anticancer Lead Molecules: knowledge of screening procedure of natural product from collection of raw materials to the anticancer study is a very useful tool for anticancer drug development. As the incidence of various cancer is increasing due to various factors developing new anticancer drugs is a need of society.

### **Registration and feed back**

The registration and feedback are made through google form.

# Program Photos







### List of participants attended the program (Google form)

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**Program feedback ( google form)**

How will you rate the audibility of the session	How will you rate the content of the slides.	What percentage of the information was new to you	Rate speakers knowledge of topic	Rate your overall experience
Excellent	Excellent	75%	Excellent	Excellent
Poor	Good	75%	Good	Good
Good	Excellent	75%	Excellent	Excellent
Excellent	Excellent	100%	Excellent	Excellent
Good	Good	75%	Excellent	Good
Excellent	Excellent	100%	Excellent	Excellent
Good	Excellent	100%	Excellent	Excellent
Good	Excellent	75%	Excellent	Excellent
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Good	Excellent	75%	Excellent	Good
Good	Excellent	75%	Excellent	Excellent
Good	Good	75%	Excellent	Excellent
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Good	Good	75%	Good	Good
Good	Good	75%	Good	Good
Good	Good	100%	Excellent	Good
Good	Excellent	75%	Excellent	Good
Excellent	Good	75%	Excellent	Excellent
Fair	Fair	100%	Fair	Poor
Poor	Fair	50%	Excellent	Good
Good	Good	75%	Good	Good
Good	Good	75%	Excellent	Good
Good	Good	50%	Good	Good
Excellent	Excellent	75%	Excellent	Excellent
Excellent	Excellent	75%	Excellent	Excellent
Excellent	Excellent	75%	Excellent	Good
Good	Excellent	75%	Excellent	Good
Excellent	Excellent	75%	Excellent	Excellent
Fair	Excellent	75%	Good	Good
Fair	Good	75%	Excellent	Good
Good	Good	100%	Good	Good

Good	Good	100%	Excellent	Excellent
Good	Excellent	100%	Excellent	Excellent
Good	Excellent	100%	Excellent	Excellent
Excellent	Excellent	100%	Poor	Excellent
Excellent	Excellent	75%	Good	Good
Poor	Excellent	75%	Excellent	Fair
Excellent	Good	75%	Excellent	Excellent
Excellent	Excellent	75%	Excellent	Excellent
Excellent	Excellent	100%	Excellent	Excellent
Good	Good	75%	Good	Good
Excellent	Good	100%	Excellent	Excellent
Good	Good	50%	Excellent	Good

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