

Koneru Lakshmaiah Education Foundation (Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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### Department of Biotechnology, KLEF - VADDESWARAM

## **<u>CIRCULAR</u>**

Date: 15-01-2019

Subject: <u>From Bench to Breakthrough: How LC-MS is Revolutionizing Metabolomics Research</u> (Virtual Seminar)

Date and time: February 12, 2019; Time: 9.00 AM to 10 AM

Platform: Webex (Virtual) and Rose Hall (Offline)

Link for meeting: https://kluniversity.webex.com/meet/cr035

This is to inform that MICROBIOLOGISTS SOCIETY, INDIA STUDENT CHAPTER is organizing an online Virtual Seminar on <u>From Bench to Breakthrough: How LC-MS is Revolutionizing Metabolomics Research on the above mentioned date and time.</u>

All students, faculty members, and interested persons are invited to attend the same.

Department of Bietechnelow KL University, Green Fields. Vaddeswaraffi, Guntur Di. 522 502 Ph : 08645-246948/246615 - Exi:181



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### MICROBIOLOGISTS SOCIETY, INDIA STUDENT CHAPTER, Department of Biotechnology, KLEF, Vaddeswaram, Guntur, Andhra Pradesh

# From Bench to Breakthrough: How LC-MS is Revolutionizing Metabolomics Research

(Virtual Seminar)

Name of Event: From Bench to Breakthrough: How LC-MS is Revolutionizing Metabolomics Research

Venue: Rose Hall

Date: 12/02/2019; Time: 3:30 PM to 5 PM

**Objective of the event:** 

The day is a chance to promote and educate LC MS Based Metabolomics.

**Description of the event:** A webinar by **Prof. Clary Clish** from **Massachusetts Institute of Technology**, USA on 12-FEB-2020 was conducted in the C506 classroom for the benefit of third year B. Tech. students and scholars of the department. The webinar was entitled "LC MS Based Metabolomics". The session started with discussion on the various steps involved in liquid chromatography and mass spectrometry. Metabolomics aims at identification and quantitation of small molecules involved in metabolic reactions. LC-MS has enjoyed a growing popularity as the platform for metabolomic studies due to its high throughput, soft ionization, and good coverage of metabolites. The success of a LC-MS-based metabolomic study often depends on multiple experimental, analytical, and computational steps. This webinar presents a workflow of a typical LC-MS-based metabolomic analysis for identification and quantitation of metabolites indicative of

biological/environmental perturbations. Challenges and current solutions in each step of the workflow are reviewed.

The webinar has covered introduction to metabolomics and LC-MS. It also focussed on the challenges to measure the metabolome. Prof. Clish mainly discussed about LC-MS metabolomics workflow i.e., preparation of LC-MS samples, sample collection and storage and LC-MS measurements and quality monitoring. The webinar was very well received by the students and scholars of the department, as they listened with rapt attention and posed thought provoking questions in the end, to the course coordinator.



Prof. Clary Clish from Massachusetts Institute of Technology, USA delivering the webinar



Students following the webinar with complete attention

<b>PARTICIPANTS LIS</b>	Т

S.NO	UNIVESITY ID	NAME OF THE STUDENT	SIGNATURE
1	170010146	GADDAM SAMHITHA REDDY	Selephille
2	170010145	KARAMPURI ANUSH	April
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8	170010139	NERELLA DHEERAJ VENKAT SAI	Venkalan
9	170010137	RAMYA NELAKUDITI	Ramya
10	170010136	RUDRA ARCHANA	Achouse
11	170010135	MIRIYALA YAMINI	Mr. Yomins
12	170010134	MEESALA MAHALAKSHMI	MAHALAKSH
13	170010133	KARYAMSETTY KAMALA VASANTHI	famila
14	170010132	HARISOMAYAJULA VALLI	Lelle
15	170010131	BOPPA HARITHA	HARMHA
16	170010130	VATTIPALLI MEGHANA	meganana
17	170010129	THOTA TRISHANTHI	T. Doshavet
18	170010128	RAMAGANI VAISHNAVI	Vashine
19	170010127	PADAMATA HARSHA VARDHAN	ARRSHA
20	170010126	MUPPANENI SAI SAHITHI	Sahith

Head Department of Biotect nology Department of Biotect nology Koneru Lakshmaiah Education Foundation (Deemed to **be University**) VADDESWARAM, Guntur Dt. VADDESWARAM, Guntur Dt. bo