



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution – Affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Tk – 602 117, Tamil Nadu



Department of Applied Chemistry Organizes a Webinar on “Metal complexes as Anticancer Agents”

By



Dr. Rajendiran Venugopal
Assistant Professor
Department of Chemistry,
Central University of Tamil Nadu,
Thiruvarur - 610 005

Registration Details:
<https://forms.gle/5HNcwixcq7gn5L4f8>
Open till: 07.06.2020
No Registration Fee
First come First Serve Basis

11th June,
2020
Thursday

11:00 am -
12:00 PM
(IST)

E- Certificates will be provided to the participants

For registration related queries : gbaskar@svce.ac.in

Convener

Dr. G. Devasagayam Prof & Head
Department of Applied Chemistry

Organizing Secretary

Dr. G. Baskar
Assistant Professor
Department of Applied Chemistry

Coordinators

Dr. S. Ananda Babu AP-ACH
Dr. T. Balusamy AP-ACH

**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)
PENNALUR, SRIPERUMBUDUR-602117**

	Department of Applied Chemistry	 INSTITUTION'S INNOVATION COUNCIL <small>(Ministry of HRD Initiative)</small>	 <small>ISO 9001:2015 Certified by IRQS</small> <small>MGMT. SYS. RVA C 071</small>
---	--	---	--

REPORT ON WEBINAR on “METAL COMPLEXES AS ANTICANCER AGENTS

Date: 11.06.2020

Time: 11.00 AM – 12.00 PM

Objectives (Maximum 50 words): The main objective of the program is i) to highlight the role of anticancer activity of the metal complexes. This will make the faculties and students to do research in the synthesis and anticancer activity domain. Since cancer is nearly a killing disease the finding of new drugs will be a good work for the society and ii) to impart the knowledge on targeted drug delivery.

About the programme (Min 500 words): The Program was started at 11.00 am on 11th June 2020 by the welcome address given by Dr.G.Baskar, AP-ACH, Organizing Secretary. The speaker Dr.V.Rajendiran, AP, Dept. Of Chemistry, Central University of Tamilnadu, Thiruvarur, started the lecture by noting the importance of the new drugs for cancer treatment. He discussed the synthesis of copper metal complexes. The mechanism of the drug action was also explained. The need for the indentifying particularly the malignant cells. He also talked about the biocompatibility of copper when compared to the other metal ions. Ruthenium based metal complexes are also superior and current research are conducted on this. The ability of simple ligands such as proline and leucine for complexation yields good result.

The targeted drug delivery helps to avoid the damage of healthy cells. The usage of nanoclusters helps in a huge way to achieve this. For surface cancer treatment the application of light on the skin reduced the cancer activity to a large extent. He talked about photodynamic treatment/therapy (PDT). The use of EDX technique in characterising the metal complexes was explained.

The webinar was opened for discussion from the participants. The usage of nanoclusters in carrying the drug was justified. The comparison of copper with other

metals such as Ag, Au and Ru were asked by the participants. The DFT studies also raised by the members.

The webinar ended by the vote of thanks by Dr.S.Ananda Babu and Dr.T.Balusamy, the Program Coordinators.

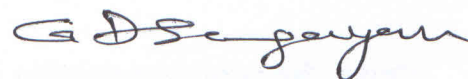
Benefits (Maximum 50 words): The participants learnt the role of copper complexes as anticancer agent. The mechanism of drug action will be further studied by the interested participants. It has benefited the research scholars so that they can plan the new metal complexes apart from copper and ruthenium. The novel drug delivery system by using the nanoclusters has enhanced interest in the further research. The application of analytical techniques like EDX and Fluorescence Spectroscopy was understood by the participants.

Prepared by Faculty Name, Designation & Dept.

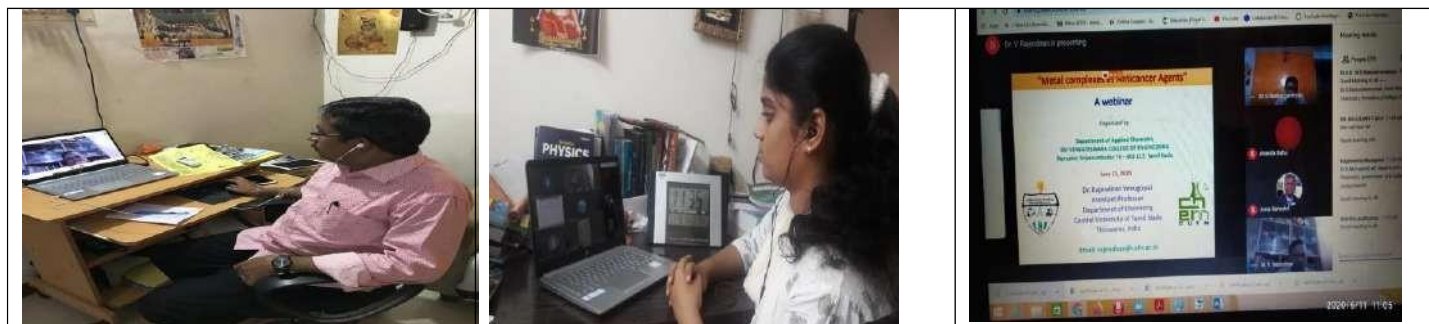
Dr.G.Baskar, Assistant Professor, Applied Chemistry



Dr G Baskar MSc.,M.Phil.,PhD.,
Assistant Professor
Department of Applied Chemistry
Sri Venkateswara College of Engineering
Pennalur- Sriperumbudur-602117
e-mail: gbaskar@svce.ac.in



Dr. G. DEVASAGAYAM, Ph.D
Professor & Head
Department of Applied Chemistry
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur - 602 105.



Listening of the lecture by the participants