



## **AUXILIUM COLLEGE (Autonomous)**

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3<sup>rd</sup> cycle)  
Gandhi Nagar, Vellore – 6.

# **ASSOCIATION ACTIVITY REPORT DEPARTMENT OF BIOCHEMISTRY**

**AUXILIUM COLLEGE (Autonomous), VELLORE**  
**Department of Biochemistry**  
**ASSOCIATION ACTIVITIES**

**Academic Year: 2018 – 2019**

**Activity – 1**

The Biochemistry Association was inaugurated by Dr. R. Maheswari, Head, PG & Research Department of Biochemistry, K.M.G College of Arts & Science, Gudiyattam on 23<sup>rd</sup> July 2018. The chief guest gave an inaugural talk on “**The scope of Biochemistry**”. Poster presentation competition was conducted for the students. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous), VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association Inauguration

*Guest lecture*

**THE SCOPE OF BIOCHEMISTRY**

*by*

**Dr. R. Maheswari**  
Head, PG & Research Department of Biochemistry,  
K.M.G College of Arts & Science, Gudiyattam

**Date: 23.07.2018** **Time: 10.30 am**


**Venue: Computer block seminar hall**



**23.07.2018 - Dr. R. Maheswari, K.M.G College of Arts & Science, Gudiyattam**  
**judging the Posters of the students**

## Activity – 2

Dr. Subhashree V, Associate Professor, Department of Integrative Biology, SBST, VIT, Vellore delivered a lecture on “**Impact of Cholesterol on Cardiovascular diseases**” on 3<sup>rd</sup> September 2018. Model making competition was also conducted as an association activity. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

*Invited lecture on*

**“Impact of Cholesterol on Cardiovascular diseases”**

*by*

**Dr. Subhashree V**

**Associate Professor,  
Department of Integrative Biology, SBST, VIT, Vellore**

**Date: 03. 09. 2018** **Time: 10.30 am**

**Venue: Computer block seminar hall**



**03.09.2018 - Dr. Subhashree V, Department of Integrative Biology, SBST, VIT, Vellore delivering the lecture**

### Activity – 3

On 5<sup>th</sup> October 2018, Dr. Vijayalakshmi S, Assistant Professor, Carbon-di-oxide Research and Green Technologies Centre, VIT University, Vellore animated on “**Novel Technique for the isolation and Structural elucidation of hetero-carbon derivative from fungi**”. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

*Invited lecture on*  
**“Novel Technique for the isolation and Structural elucidation of  
heterocarbon derivative from fungi”**

*by*  
**Dr. Vijayalakshmi S**  
*Assistant Professor, Carbondioxide Research and Green Technologies Centre, VIT  
University, Vellore*

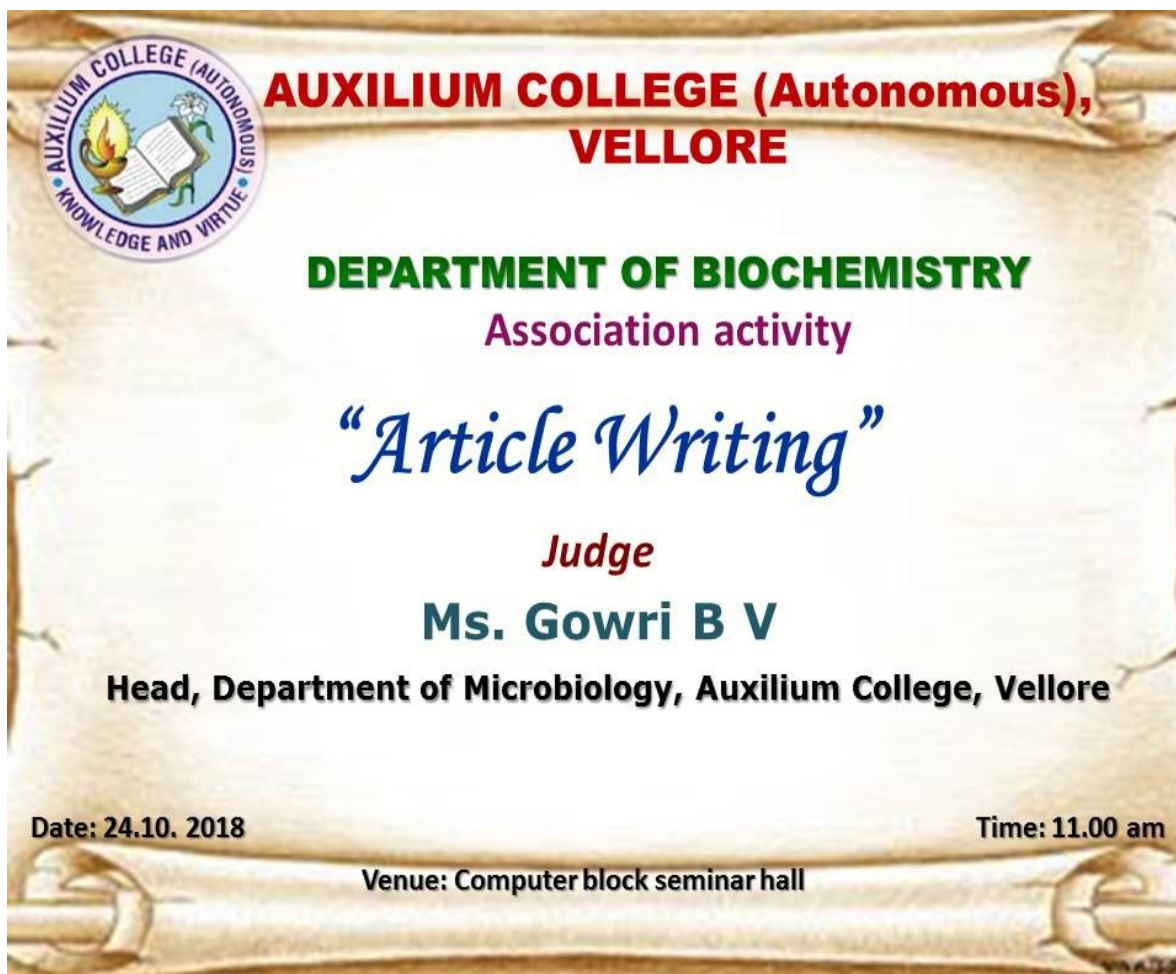
Date: 05.10. 2018      Time: 10.30 am  
Venue: Computer block seminar hall



**05.10.2018 - Dr. Vijayalakshmi S, Carbon-di-oxide Research and Green Technologies Centre, VIT University, Vellore delivers lecture on the topic “Novel Technique for the isolation and Structural elucidation of hetero-carbon derivative from fungi”.**

#### Activity – 4

“**Article Writing**” competition was organized on 24<sup>th</sup> October 2018. Ms. Gowri B V, Head Department of Microbiology, Auxilium College, Vellore judged the articles and announced the prize winners. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

*“Article Writing”*


*Judge*  
**Ms. Gowri B V**  
Head, Department of Microbiology, Auxilium College, Vellore

Date: 24.10. 2018 Time: 11.00 am

Venue: Computer block seminar hall

### Activity – 5

“Vegetable carving” competition was conducted on 29<sup>th</sup> January 2019. Dr. Auxilia Antony, Head, Department of Commerce, Auxilium College, Vellore judged the competition and announced the prize winners. Beneficiaries: 134 students.




**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

# “Vegetable carving”

*Judge*  
**Dr. Auxilia Antony**  
*Head, Department of Commerce, Auxilium College, Vellore*

Date: 29.01. 2019 Time: 11.00 am

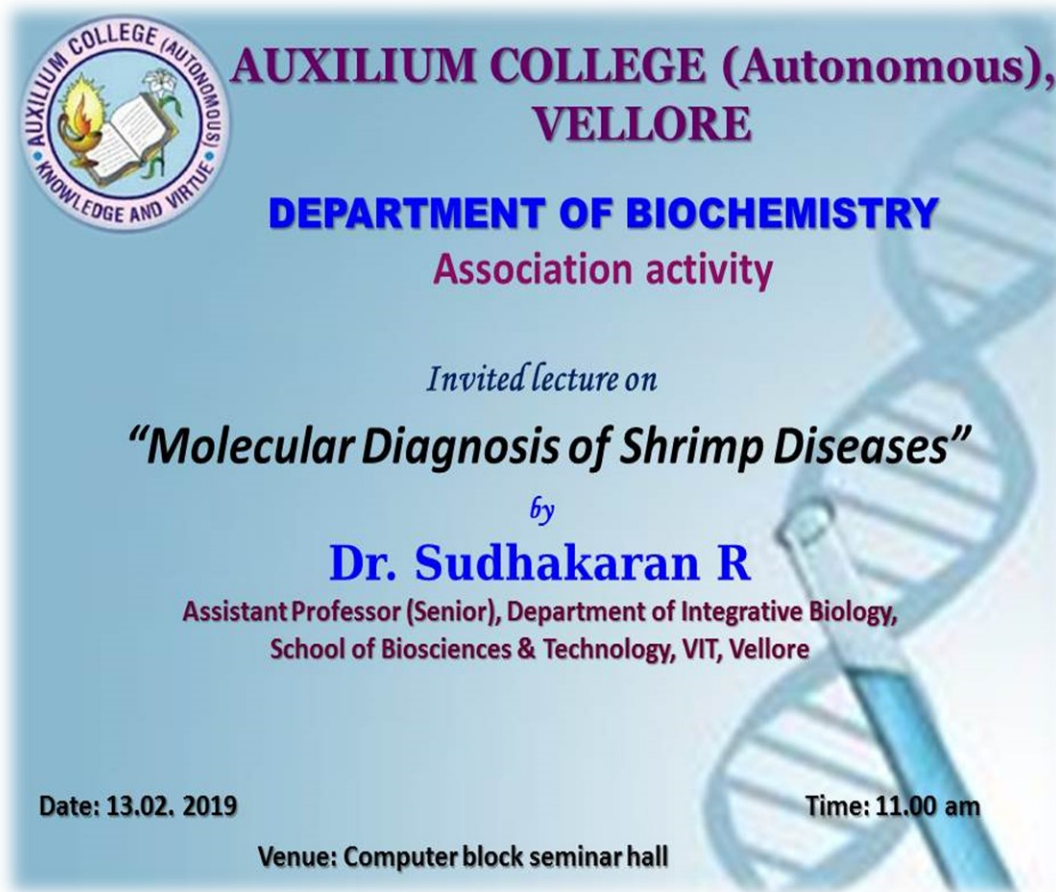
Venue: Computer block seminar hall 



29.01.2019 - Dr. Auxilia Antony, Auxilium College, Vellore, judging the vegetable carvings displayed by the students.

### Activity – 6

A guest lecture was conducted on 13<sup>th</sup> February 2019. Dr. Sudhakaran R, Assistant Professor (Senior), Department of Integrative Biology, School of Biosciences & Technology, VIT, Vellore, animated on “**Molecular Diagnosis of Shrimp Diseases**”.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

*Invited lecture on*  
**“Molecular Diagnosis of Shrimp Diseases”**  
*by*  
**Dr. Sudhakaran R**  
Assistant Professor (Senior), Department of Integrative Biology,  
School of Biosciences & Technology, VIT, Vellore

Date: 13.02. 2019 Time: 11.00 am  
Venue: Computer block seminar hall

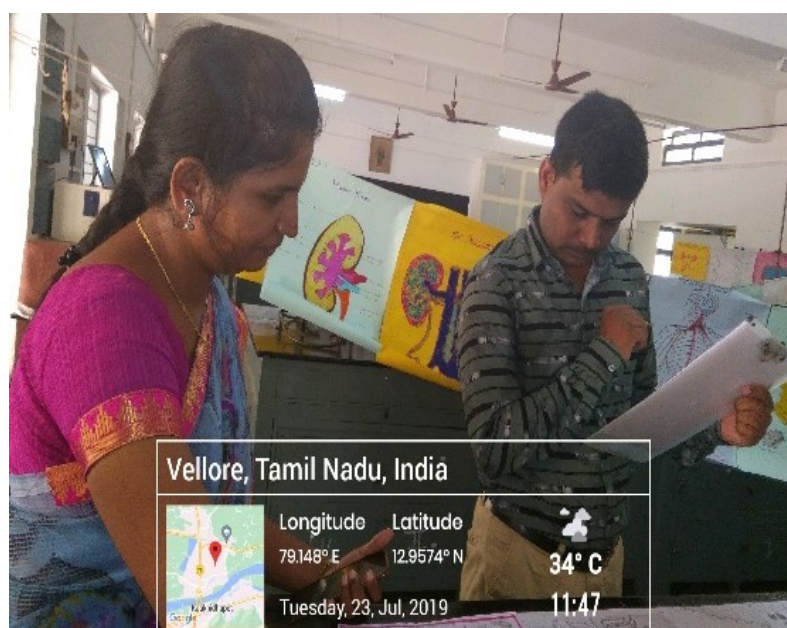


13.02.2019. Dr. Sudhakaran R, Department of Integrative Biology, School of Biosciences & Technology, VIT, Vellore delivers his lecture on the topic “**Molecular Diagnosis of Shrimp Diseases**”.

ACADEMIC YEAR: 2019 – 2020

### Activity – 1

Association of Biochemistry Department was inaugurated on 23<sup>rd</sup> July 2019. The chief guest was Dr. I Niyas Ahamed, Assistant Professor, Department of Biochemistry, Sacred Heart College, Tirupattur. The chief guest delivered a lecture on the topic “**Applications of Bionanotechnology**”. Following the lecture, poster presentation was conducted as an association activity. The chief guest judged the competition and announced the prize winners. Beneficiaries: 141 students.

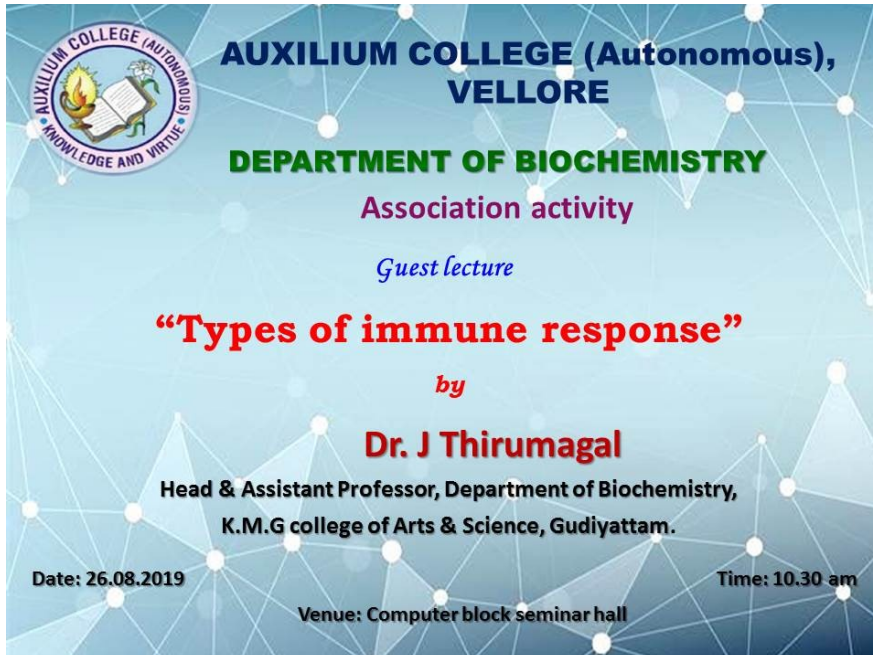


**23.07.2019 - Dr. I Niyas Ahamed, Department of Biochemistry, Sacred Heart College, Tirupattur, judging the posters.**



## Activity – 2

Guest lecture was organized on 26<sup>th</sup> August 2019 for the association activity. The chief guest was Dr. J Thirumagal, Head & Assistant Professor, Department of Biochemistry, K.M.G college of Arts & Science, Gudiyattam. The chief guest delivered a lecture on the topic “Types of immune response”. Following the lecture, vegetable carving was conducted as an association activity. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

Association activity

Guest lecture

**“Types of immune response”**

by  
**Dr. J Thirumagal**

Head & Assistant Professor, Department of Biochemistry,  
K.M.G college of Arts & Science, Gudiyattam.

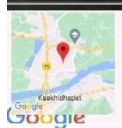
Date: 26.08.2019

Time: 10.30 am

Venue: Computer block seminar hall



Vellore, Tamil Nadu, India

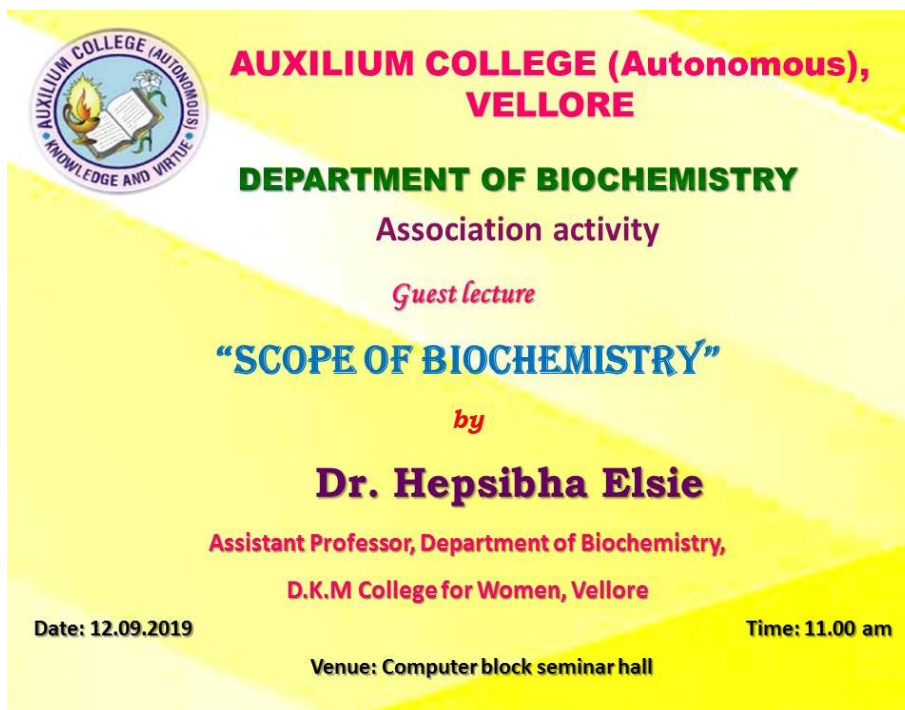


Auxilium College Rd, Suth-  
79.169111, 79.169111  
Gandhi Nagar, Vellore, 10:37  
Wednesday, 26 Aug, 2020  
26 Aug 2019 11:59 am 31.0 °C

26.08.2019 - Dr. J Thirumagal, Department of Biochemistry, K.M.G college of Arts & Science, Gudiyattam, judging the vegetable carving presented by the students.

### Activity – 3

On 12<sup>th</sup> September 2019 a guest lecture and model making was organized as a part of association activity. The chief guest was Dr. Hepsibha Elsie, Assistant Professor, Department of Biochemistry, D.K.M College for Women, Vellore. The chief guest delivered a talk on “**Scope of Biochemistry**”. Beneficiaries: 141 students.



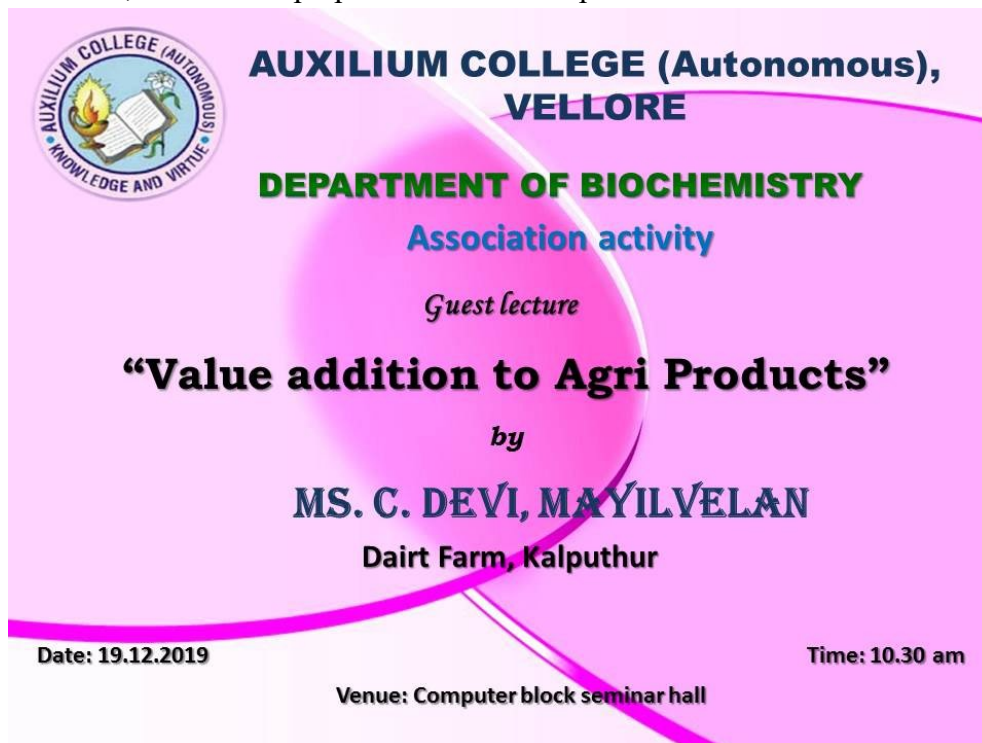
The poster is yellow with a circular logo in the top left corner. The logo contains a book, a lamp, and a tree, with the text 'AUXILIUM COLLEGE (AUTONOMOUS)' and 'KNOWLEDGE AND VIRTUE'. The main text is centered and reads: 'AUXILIUM COLLEGE (Autonomous), VELLORE', 'DEPARTMENT OF BIOCHEMISTRY', 'Association activity', 'Guest lecture', '“SCOPE OF BIOCHEMISTRY”', 'by', 'Dr. Hepsibha Elsie', 'Assistant Professor, Department of Biochemistry, D.K.M College for Women, Vellore'. At the bottom, it specifies 'Date: 12.09.2019', 'Time: 11.00 am', and 'Venue: Computer block seminar hall'.



**12.09.2019 - Dr. Hepsibha Elsie, Department of Biochemistry, D.K.M College for Women, Vellore, delivering the talk.**

#### Activity – 4

A workshop on “Value addition to Agri Products” was organized as a part of association activity by the department of Biochemistry on 19<sup>th</sup> December 2019. Ms. C. Devi, Mayilvelan, Dairt Farm, Kalputhur was the chief guest. She highlighted on the importance of A2 milk and milk products. Also, showed the preparation of natural products. Beneficiaries: 141 students.



The poster features the Auxilium College logo on the left, which includes a lamp and an open book with the motto 'KNOWLEDGE AND VIRTUE'. The text on the poster is as follows:

**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

*Guest lecture*

**“Value addition to Agri Products”**  
by  
**MS. C. DEVI, MAYILVELAN**  
Dairt Farm, Kalputhur

Date: 19.12.2019 Time: 10.30 am


Venue: Computer block seminar hall



19.12.2019 - Ms. C. Devi, Mayilvelan, Dairy Farm, Kalputhur, delivering the talk.

### Activity – 5

On 24<sup>th</sup> January 2020, a workshop on “Herbal Products” was organized as a part of association activity by the department of Biochemistry. Ms. R Kalpana, Managing Director, AK Foods, Vellore was the chief guest. The chief guest demonstrated the preparation and importance of herbal products and also highlighted the importance of millets for treating diseases in a natural way. Beneficiaries: 141 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

Association activity

Guest lecture

**“HERBAL PRODUCTS”**

by

**Ms. R Kalpana**

Managing Director, AK Foods, Vellore

Date: 24.01.2020 Time: 11.00 am

Venue: Auditorium



**24.01.2020 - Ms. R Kalpana, Managing Director, AK Foods, Vellore, delivered lecture on Herbal products.**

**ACADEMIC YEAR: 2020 – 2021**

**Activity – 1**

Department of Biochemistry in association with Spoken Tutorial, IIT Bombay (MHRD, Govt of India) organized seven days FDP (25.05.2020 to 31.05.2020) on “Cell Designer”. Beneficiaries: 800 faculties from various colleges and universities.

**AUXILIUM COLLEGE**  
Accredited by NAAC with A\* Grade with a CGPA of 3.55 out of 4 in the 3<sup>rd</sup> cycle  
Gandhi Nagar, Vellore - 632 006

**DEPARTMENT OF BIOCHEMISTRY**  
**IN ASSOCIATION WITH**  
**SPOKEN TUTORIAL, IIT BOMBAY**  
**(MHRD, Govt of INDIA)**  
**ORGANISES A SEVEN DAY FDP**  
**ON**  
**CELL DESIGNER**



**SCAN TO REGISTER**

**No Registration Fee**  
**E- Certificates will be Provided**

**Last Date for Registration**  
**24.05.2020 upto 5.00pm**



**FDP Dates:**  
**25.05.2020 To 31.05.2020**

**For any query contact**  
**Dr. G. ABI BEAULAH**  
**Head, Dept. of Biochemistry**  
**Cell : 9842679231**  
**Mail ID: abibeulah@auxilium.edu.in**

## Activity – 2

An **International Webinar** on 28<sup>th</sup> May 2020 was organized. Dr. S. Margaret Sunitha, Researcher – MGH / Harvard Medical School & Associated researcher – Broad Institute, Boston, gave valuable information on the topic “**Connecting the dots between Biochemistry – Bioinformatics – Genomics for a road towards Precision Medicine**”. E-certificates were given to all the participants. Beneficiaries: Around 100 participants from various countries.

**AUXILIUM COLLEGE (Autonomous)**  
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Gandhi Nagar, Vellore

DEPARTMENT OF BIOCHEMISTRY  
Organises  
**INTERNATIONAL WEBINAR**  
On  
*Connecting the dots between Biochemistry - Bioinformatics  
- Genomics for a road towards precision medicine*

**RESOURCE PERSON**  
**Dr. S. Margaret Sunitha**  
Researcher-MGH / Harvard Medical  
School & Associated researcher-  
Broad Institute, Boston

**Date: 28.05.2020**  
**Time: 04.30 – 05.30pm**

Link: <https://zoom.us/j/3387745893?pwd=M08xZElmUDZ6Q2t5dYtLNlJaWitUz09>  
Meeting ID: 338 774 5893 ; Password: 9xGcGr

**Organiser**  
**Dr. G. ABI BEAULAH,**  
Head, Dept. of Biochemistry  
Cell : 9842679231; Mail ID: abibeaulah@gmail.com

No Registration Fee

### Whole Genome Sequencing

Large DNA molecule  
↓ fragmentation  
↓ sequenced  
Assembly of overlapping DNA sequencing  
Assembled sequence

- Multiple genome biobanks generate huge amount of human genome data
- Genome wide association studies (GWAS) has identified regions in human genome that could be responsible for a disease condition

**Cost per Genome**

NIH National Human Genome Research Institute

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

Sanger's Sequencing  
Human's Cost  
Next Generation Sequencing

28.05.2020 – Screen shot of the online Meeting

### Activity – 3

International webinar on “**Job options for Life Science Students – Their role in research Field**” was organized by the department of Biochemistry through virtual meet on 31<sup>st</sup> July 2020. Dr. Sathiya Sekar, Post-Doctoral Fellow, Department of Pharmacology, College of Medicine, University of Saskatchewan, Canada was the chief guest. Beneficiaries: Around 400 participants from various countries.

**AUXILIUM COLLEGE (Autonomous)**  
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Gandhi Nagar, Vellore

DEPARTMENT OF BIOCHEMISTRY  
Organises  
INTERNATIONAL WEBINAR  
On  
*Job options for Life Science students - Their role in research field*

**RESOURCE PERSON**  
**Dr. Sathiya Sekar**  
Post Doctoral Fellow  
Department of Pharmacology, College of Medicine,  
University of Saskatchewan, Canada

Date: 31.07.2020  
Time: 10.00-11.00am

Meeting platform: Google Meet  
Link will be mailed to participants after registration  
No Registration Fee

Organiser  
**Dr. G. ABI BEAULAH**  
Head, Dept. of Biochemistry  
Mail ID: abibeulah@auxiliumcollege.edu.in

Abi Beulah G is presenting

International webinar

People (8) Chat

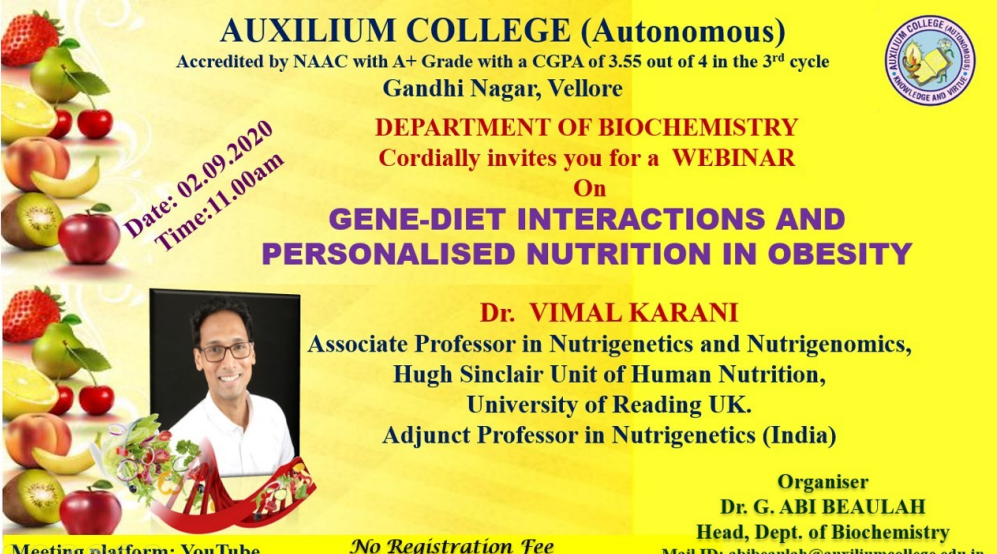
- Abi Beulah (You)
- Abi Beulah G (Presentation)
- Abi Beulah G
- Aruna A
- Pavithra Ms
- Sathiya Sekar
- Sathiya Sekar (Presentation)
- Yamuna U

RE. JOB OPTIONS FOR LIFE SCIENCE STUDENTS - THEIR RO

31.07.2020 – Screen shot of the online Meeting

#### Activity – 4

On 2<sup>nd</sup> September 2020, a national webinar on “**Gene-Diet Interaction and Personalized Nutrition in Obesity**” was organized as department activity. Dr. Vimal Karani, Associate Professor in Nutrigenetics and Nutrigenomics, Hugh Sinclair Unit of Human Nutrition, University of Reading UK and Adjunct Professor in Nutrigenetics (India) was the Resource person. Beneficiaries: Around 800 participants from various countries.



**AUXILIUM COLLEGE (Autonomous)**  
Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3<sup>rd</sup> cycle  
Gandhi Nagar, Vellore

**DEPARTMENT OF BIOCHEMISTRY**  
Cordially invites you for a **WEBINAR**  
On  
**GENE-DIET INTERACTIONS AND  
PERSONALISED NUTRITION IN OBESITY**

**Dr. VIMAL KARANI**  
Associate Professor in Nutrigenetics and Nutrigenomics,  
Hugh Sinclair Unit of Human Nutrition,  
University of Reading UK.  
Adjunct Professor in Nutrigenetics (India)

Organiser  
**Dr. G. ABI BEAULAH**  
Head, Dept. of Biochemistry  
Mail ID: abibeaulah@auxiliumcollege.edu.in

Date: 02.09.2020  
Time: 11.00am

Meeting platform: YouTube      No Registration Fee



Dr. Vimal Karani is presenting

Human Nutrition  
University of Reading

**Gene-Diet Interactions & Personalised Nutrition in Obesity**  
- Organised by Auxilium College (Autonomous), Vellore, Tamil Nadu, India  
(September 2<sup>nd</sup>, 2020)  
**Dr Vimal Karani**  
Associate Professor in Nutrigenetics & Nutrigenomics  
University of Reading, UK

LIMITLESS POTENTIAL | LIMITLESS OPPORTUNITIES | LIMITLESS IMPACT

**NUTRITION IN OBESITY. PARTICIPANTS**

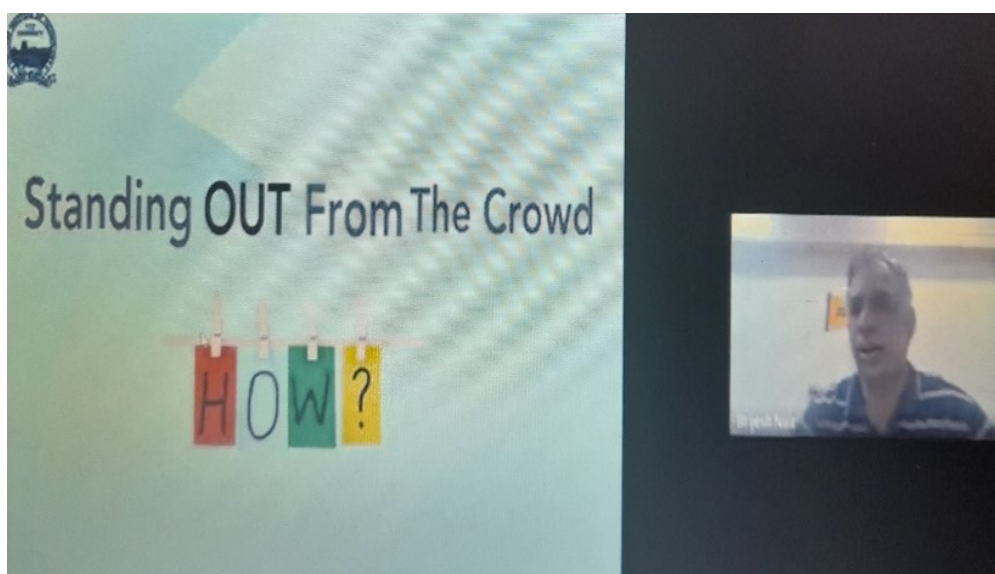
GENE-DIET INTERACTIONS AND PERSONALISED NUTRITION IN OBESITY  
986 views Streamed live on 2 Sept 2020 ...more  
67 Dislike Share Download Clip Save ...

**02.09.2020 – Screen shot of the online Meeting**



### Activity – 5

On 24<sup>th</sup> of October 2020, a guest lecture was organized by the department of Biochemistry for the final year UG and first year PG students as a part of association activity through google meet mode. The chief guest was Dr. Brijesh Nair, Professor (Civil Engineering) and Assistant Director (International Relations), Vellore Institute of Technology, Vellore. He delivered a lecture on “**How to stand OUT in a Crowd**”. The chief guest also highlighted the importance of resume for opting job, tips for developing soft skills and preparing effective PowerPoint presentation. Beneficiaries: 50 students.



**24.10.2020 – Screen shot of the online Meeting**

## Activity – 6

On 31<sup>st</sup> of October 2020, Department of Biochemistry organized a guest lecture on “**Genetically Modified Organism**”. Dr. R. Sudhakaran, Assistant Professor (Senior), Department of Integrative Biology, School of Biosciences & Technology, VIT, Vellore was the chief guest. The chief guest elaborated on the techniques of genetic modification, merits and demerits of genetically modified organism. Beneficiaries: 50 students.

**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

**Association activity**

*Guest lecture*

**“Genetically Modified Organism”**

**Dr.R. Sudhakaran**

Assistant Professor (Senior), Department of Integrative Biology,  
School of Biosciences & Technology, VIT, Vellore

**Date: 31. 10. 2020** **Time: 11.00 am**

**Meeting link: [meet.google.com/iur-crup-hte](https://meet.google.com/iur-crup-hte)**




**31.10.2020 – Screen shot of the online Meeting**

### Activity – 7

On 7<sup>th</sup> November 2020, Department of Biochemistry organized a guest lecture on “**Scope and significance of Biochemistry**”. Mr. N.T Ravindran, Assistant Professor, Department of Biochemistry, Adhiparasakthi College of Arts & Science, Kalavai was the chief guest. The chief guest animated on the scope of Biochemistry in academic and various industrial sectors. Also tips for cracking various competitive exam for life science graduates were delivered to the students. Beneficiaries: 50 students.

meet.google.com/jye-pdxh-ond'." data-bbox="154 278 833 625"/>

 **AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

Association activity  
*Guest lecture*

**“Scope and significance of Biochemistry”**

by  
**Mr. N.T Ravindran**

Assistant Professor, Department of Biochemistry,  
Adhiparasakthi College of Arts & Science, Kalavai

Date: 07. 11. 2020 Time: 10.30 am  
Meeting link: [meet.google.com/jye-pdxh-ond](https://meet.google.com/jye-pdxh-ond)

## Activity – 8

A guest lecture on “**Approaches in Drug Discovery and Development**” was organized as a part of association activity. The chief guest was Dr. Saravana Babu, Associate Professor, Department of Pharmacology, JSS College of Pharmacy & Coordinator Central Animal Facility, JSS Academy of Higher Education and Research, Mysore highlighted the basis of drug designing, delivery and drug metabolism. Beneficiaries: 50 students.



 **AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

**GUEST LECTURE**

**“Approaches in Drug Discovery and Development”**

*by*

**Dr. Saravana Babu**

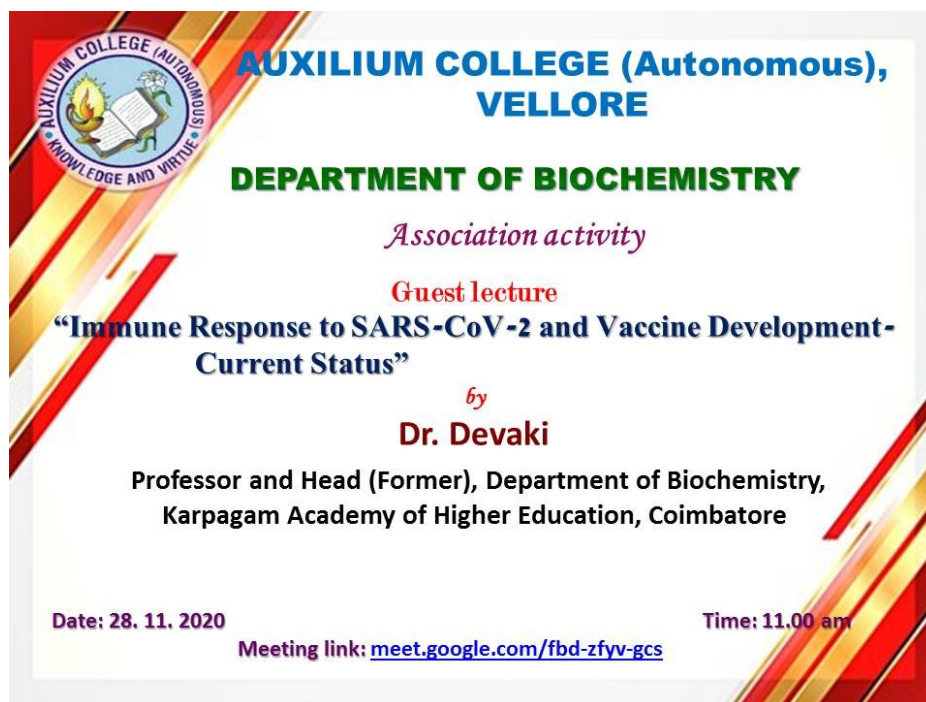
Associate Professor, Department of Pharmacology,  
JSS College of Pharmacy & Coordinator Central Animal Facility,  
JSS Academy of Higher Education and Research, Mysore

Date: 19.11.2020 Time: 11.00 am

Meeting link: [meet.google.com/adi-pqdj-vre](https://meet.google.com/adi-pqdj-vre)

## Activity – 9

On 28<sup>th</sup> November 2020, Dr. Devaki, Professor and Head (Former), Department of Biochemistry, Karpagam Academy of Higher Education, Coimbatore delivered a guest lecture on “Immune Response to SARS-CoV-2 and Vaccine Development-Current Status” for both UG and PG student of Biochemistry department. Beneficiaries: 75 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

**Guest lecture**

**“Immune Response to SARS-CoV-2 and Vaccine Development-  
Current Status”**

*by*

**Dr. Devaki**

Professor and Head (Former), Department of Biochemistry,  
Karpagam Academy of Higher Education, Coimbatore

Date: 28. 11. 2020

Time: 11.00 am

Meeting link: [meet.google.com/fbd-zfyv-gcs](https://meet.google.com/fbd-zfyv-gcs)



Guest Lecture on Immune response to SARS-CoV-2 and Vaccine Development-Current Status (2020-11-28 at 00:39 GMT-8)

Global Front runners in India for CoV  
19 Vaccine development

Oxford-AstraZeneca (AZ)	Moderna-NIAID (mRNA-1273)	ZydusCadila (ZyCoV-D)	Bharat Biotech-ICMR (Covaxin)
<b>Name:</b> AZD-1222	<b>Name:</b> mRNA-1273	<b>Name:</b> ZyCoV-D	<b>Name:</b> COVAXIN
<b>Vaccine type:</b> Non-replicating viral vector (viral gene is carried by inactive non-replicating virus - like a Trojan horse that links itself into activating an immune response)	<b>Vaccine type:</b> mRNA (introduces viral genetic material that activates an immune response in body)	<b>Vaccine type:</b> DNA (introduces viral genetic material that activates an immune response in body)	<b>Vaccine type:</b> Inactivated viral particles that have been inactivated, or made non-replicative, are introduced to the body to trigger immune response
<b>PHASE 3 CLINICAL TRIALS</b>	<b>PHASE 3 CLINICAL TRIALS</b>	<b>PHASE 3 CLINICAL TRIALS</b>	<b>PHASE 1-2 CLINICAL TRIALS</b>

\* Now other development programmes including the ones in Germany and Israel are under close watch

Vishva.R Biochemistry

28.11.2020 – Screen shot of the online Meeting

## Activity – 10

On 5<sup>th</sup> December 2020, a guest lecture was organized as a part of association activity on the topic **“Critical and Emergency Clinical Biochemistry tests and its Clinical Interpretation”**. Dr. Jayakumar Amirthraj, Professor, Department of Clinical Biochemistry, CMCH, Vellore animated on the various sophisticated and advanced clinical tests for the diagnosis of diseases and its interpretation strategies. Beneficiaries: 75 students.

**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

*Guest lecture*

**“Critical and emergency clinical Biochemistry tests and its  
clinical interpretation”**

*by*

**Dr. Jayakumar Amirthraj**

Professor, Department of Clinical Biochemistry, CMCH, Vellore

Date: 05. 12. 2020 Time: 11.30 am

Meeting link: [meet.google.com/dre-yotv-coe](https://meet.google.com/dre-yotv-coe)

freepptbackground.com

PG Department of Biochemistry Guest Lecture Invitation (2020-12-05 at 00:49 GMT-8)

Outline

- ❖ Define Emergency tests / critical tests
- ❖ Places / Wards - Emergency samples are received
- ❖ Choice of blood sample
- ❖ Turnaround time
- ❖ Analytes investigated as part of emergency tests
- ❖ Method of assay
- ❖ Critical alert limits for tests
- ❖ Clinical Interpretation

05.12.2020 – Screen shot of the online Meeting

## Activity – 11

On 12<sup>th</sup> December 2020, a guest lecture was organized for the students of Biochemistry department. Dr. Anbu Malar M, Assistant professor, Department of B Voc-Food Processing and Quality Control, Stella Maris College (Autonomous), Chennai was the chief guest. The Chief guest delivered a lecture on “**Food fortification and its Bioavailability**”. Beneficiaries: 75 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

*Guest lecture*

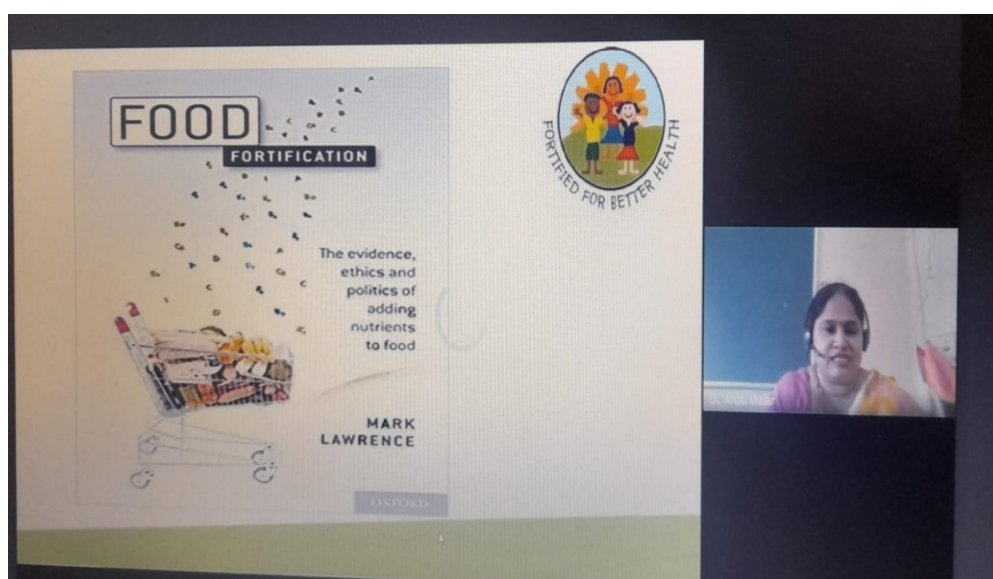
**“Food fortification and its Bioavailability”**

by  
**Dr. Anbu Malar M**

**Assistant professor, Department of B Voc-Food Processing and Quality  
Control, Stella Maris College (Autonomous), Chennai**

Date: 12. 12. 2020 Time: 11.00 am

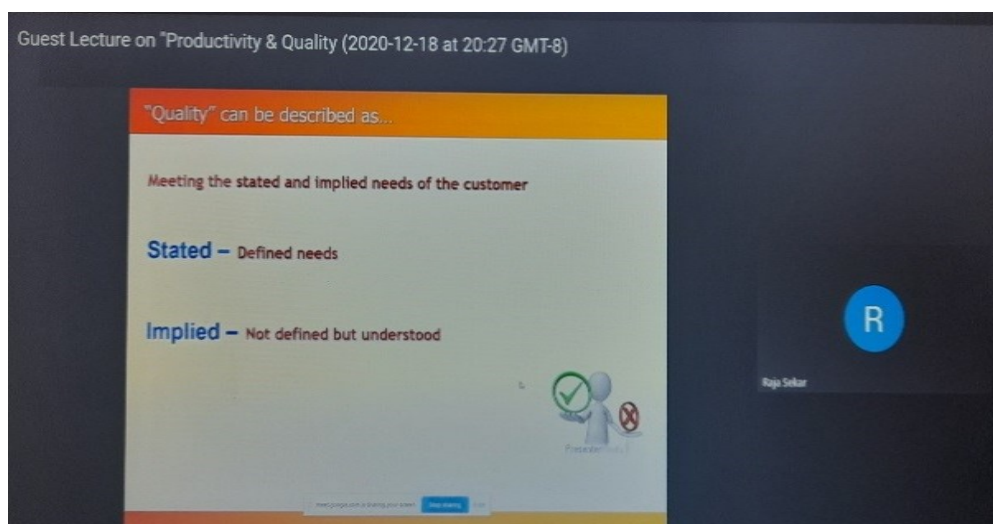
Meeting link: [meet.google.com/poe-ibav-rew](https://meet.google.com/poe-ibav-rew)



**12.12.2020 – Screen shot of the online Meeting**

## Activity – 12

A guest lecture on “**Productivity & Quality**” was organized by the Department of Biochemistry as a part of association activity on 18<sup>th</sup> December 2020. Mr. S Rajasekar, Business Head-Pigments Ultramarine Pigments Ltd was the chief guest. The chief guest animated on the quality- based production of products and its delivery into the market based on the customer’s need. Beneficiaries: 75 students.



**18.12.2020 – Screen shot of the online Meeting**



### Activity – 13

On 9<sup>th</sup> January 2021, a guest lecture on “**Recombinant DNA Technology and its Applications**” was delivered by Dr. M Gomathi, Head and Assistant Professor, Department of Biotechnology, Marudhar Kesari Jain College for Women, Vaniyambadi. The chief guest demonstrated the various advanced techniques for recombinant DNA synthesis and its applications in diverse sectors. Beneficiaries: 75 students.

**AUXILIUM COLLEGE (Autonomous), VELLORE**  
**DEPARTMENT OF BIOCHEMISTRY**  
Association activity  
Guest lecture  
**“Recombinant DNA Technology and its Applications”**  
by  
**Dr. M Gomathi**  
Head and Assistant Professor, Department of Biotechnology,  
Marudhar Kesari Jain College for Women, Vaniyambadi  
Date: 09. 01. 2021 Time: 11.00 am  
Meeting link: [meet.google.com/rob-lose-mxu](https://meet.google.com/rob-lose-mxu)

APPLICATIONS IN HEALTH CARE:

- ▶ rDna technology has Wide spectrum in improving health.
- ▶ Treat defected gene or introduce new one( gene therapy)
- ▶ Advanced kits for prenatal diagnosis of genetic disease

A large number of mammalian proteins are being manufactured by pharmaceutical companies for use in the treatment of human diseases.

Gene therapy using an adenovirus vector

gomathi manickam

**09.01.2021 – Screen shot of the online Meeting**

### Activity – 14

A guest lecture on “**Quality Control in Biochemistry Laboratories**” was organized as an association activity by the department of Biochemistry on 30<sup>th</sup> January 2021 through virtual meet. Mr. P Manigandan, M.Sc, B.Ed, Selection Grade Biochemistry, Quality Control Section, Department of Clinical Biochemistry, CMCH, Vellore was the chief guest. The chief guest highlighted on the importance if Quality control in analysing clinical samples and as well as various standardization methods in quality control. Beneficiaries: 75 students.



**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

*Guest lecture*

**“Quality Control in Biochemistry Laboratories”**

*by*

**Mr. P Manigandan** M.Sc, B.Ed,  
Selection Grade Biochemistry, Quality Control Section,  
Department of Clinical Biochemistry, CMCH, Vellore

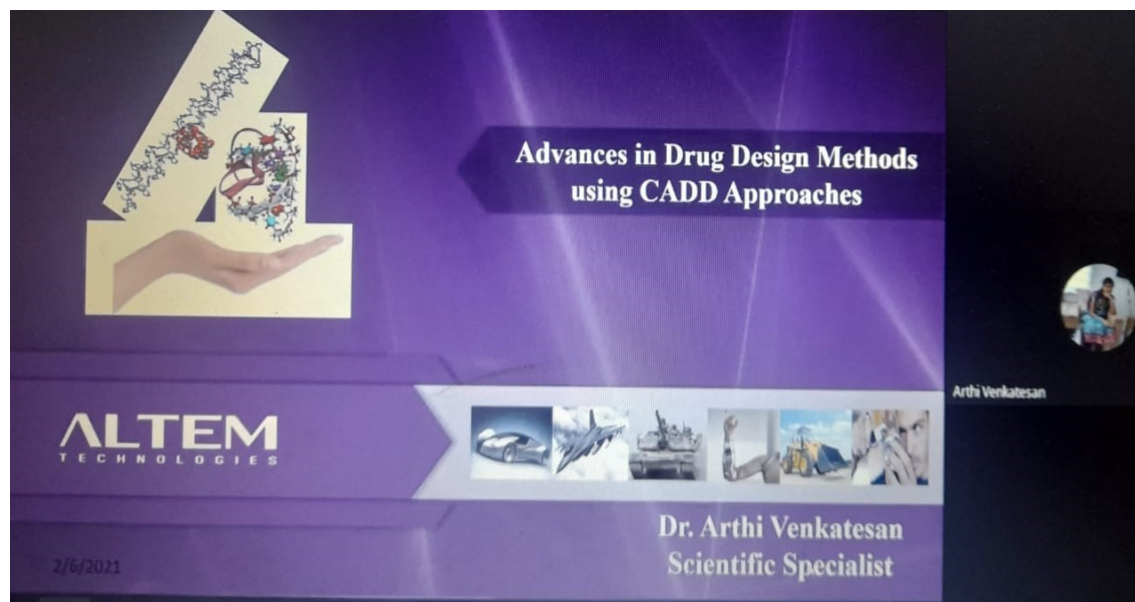
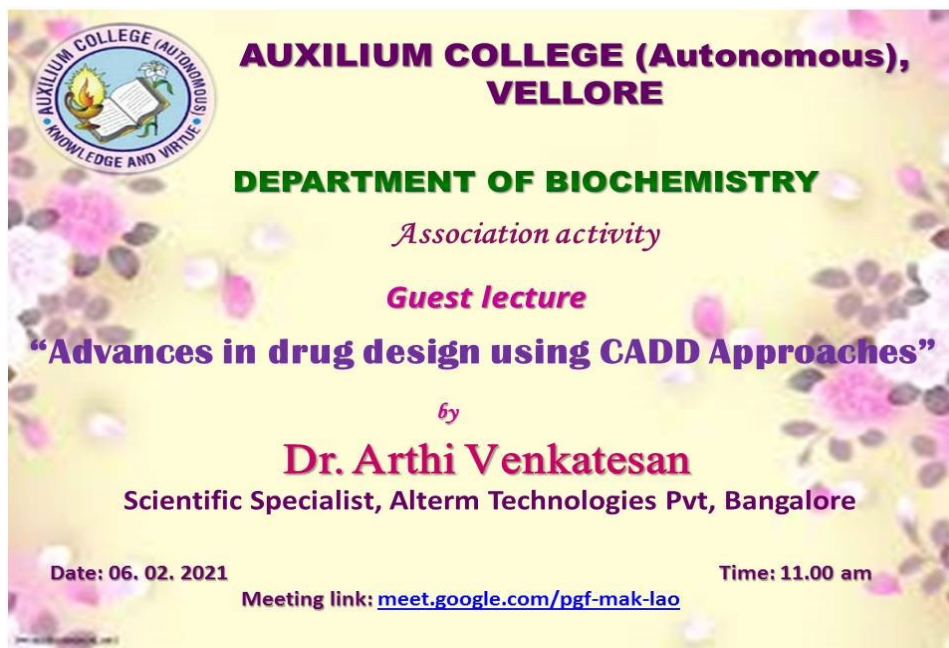
**Date: 30. 01. 2021**

**Time: 10.00 am**

**Meeting link: [meet.google.com/dgp-pamw-qpe](https://meet.google.com/dgp-pamw-qpe)**

### Activity – 15


On 6<sup>th</sup> February 2021, a guest lecture on “Advances in drug design using CADD Approaches” was organized by the department of Biochemistry as an association activity. Dr. Arthi Venkatesan, Scientific Specialist, Alterm Technologies Pvt, Bangalore was the chief guest. She delivered a talk on the various approaches to design drugs for treating infectious diseases. Beneficiaries: 75 students.



06.02.2021 – Screen shot of the online Meeting

## Activity – 16

On 13<sup>th</sup> February 2021, a guest lecture through online mode on “**Biochemical basis of Markers in Angina Pectoris and Principles of Emergency management with Clinical case studies**” was organized by the department of Biochemistry. Dr. Kasturi, Assistant Professor, Department of Clinical Biochemistry, Tagore Medical College and Hospital was the chief guest. Beneficiaries: 75 students.



 **AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

*Guest lecture*

**“Biochemical basis of Markers in Angina Pectoris and Principles of Emergency management with Clinical case studies”**

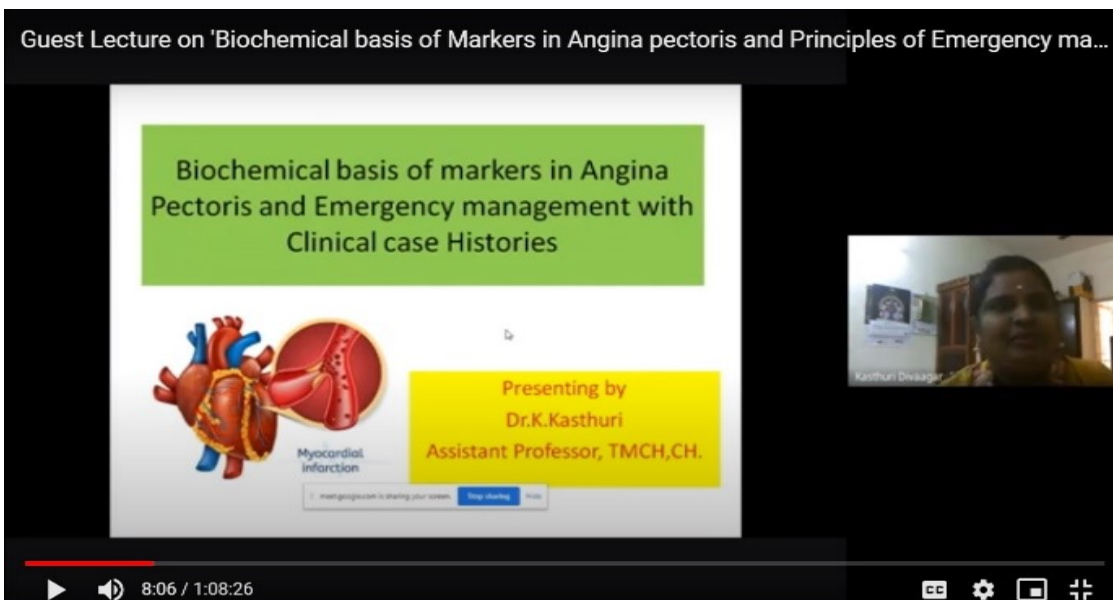
by  
**Dr. Kasturi**

Assistant Professor, Department of Clinical Biochemistry,  
Tagore Medical College and Hospital

Date: 13. 02. 2021 Time: 11.00 am

Meeting link: [meet.google.com/bca-pokz-nzu](https://meet.google.com/bca-pokz-nzu)

Guest Lecture on 'Biochemical basis of Markers in Angina pectoris and Principles of Emergency ma...



Biochemical basis of markers in Angina Pectoris and Emergency management with Clinical case Histories

Presenting by  
Dr.K.Kasthuri  
Assistant Professor, TMCH,CH.

8:06 / 1:08:26

**13.02.2021 – Screen shot of the online Meeting**

### Activity – 17

On 20<sup>th</sup> March 2021, an International Webinar on “Advances in Life Science” was organized by the department of Biochemistry. In the first session, Dr Ravi Shankar Singh, Postdoctoral Research Fellow, Department of Biochemistry, Immunology and Microbiology (BMI), Cancer Cluster, University of Saskatchewan, Canada was the chief guest. He delivered a talk on “Role of DEAD Box helicase in innate immunity”. The second session by Dr. Girish Ramesh, Research Scientist, Department of Biophysics, Faculty of Medicine, Universitits des Sarlandes, Germany was on “Ion Channels and Calcium Homeostasis”. Beneficiaries: Around 600 participants from various countries.

**AUXILIUM COLLEGE (Autonomous),  
VELLORE**  
**DEPARTMENT OF BIOCHEMISTRY**  
*Association activity*  
**International webinar - “Advances in Life Science”**

**“Role of DEAD Box helicase in innate immunity”**  
**Dr Ravi Shankar Singh,**  
Postdoctoral Research Fellow,  
Department of Biochemistry,  
Immunology and Microbiology  
(BMI), Cancer Cluster,  
University of Saskatchewan, Canada

**“Ion channels and calcium homeostasis”**  
**Dr Girish Ramesh,**  
Research Scientist,  
Department of Biophysics, Faculty  
of Medicine,  
Universitits des Sarlandes, Germany

**Date: 20. 03. 2021** **Time: 10.00 am**  
**Meeting link: [meet.google.com/lae-nixu-jfa](https://meet.google.com/lae-nixu-jfa)**

*Dr. Jyoti Sankar*  
PRINCIPAL  
AUXILIUM COLLEGE (Autonomous)  
Gandhi Nagar, Vellore - 632 006.  
Vellore District, Tamil Nadu.

Academic Year: 2021 – 2022

### Activity – 1

Association of Biochemistry was inaugurated on 21<sup>st</sup> August 2021 through virtual meet platform. The chief guest was Dr. S. Shoba, Professor and Head, Department of Pharmacology Adhiparasakthi College of Pharmacy, Melmaruvathur. The chief guest delivered a lecture on the topic “**Diabetes Mellitus and Cardiovascular diseases**”. Beneficiaries: UG and PG students of the department.

**AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

**Association Inauguration**

*Guest lecture*

**“Diabetes Mellitus and Cardiovascular diseases”**

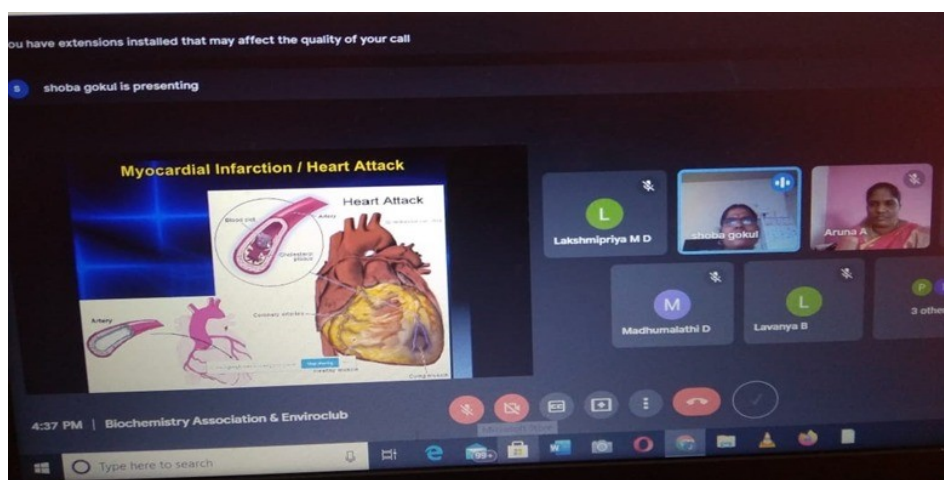
*by*

**Dr. S. Shoba**

**Professor and Head, Department of Pharmacology Adhiparasakthi College of  
Pharmacy, Melmaruvathur**

**Date: 21.08.2021** **Time: 10.30 am**

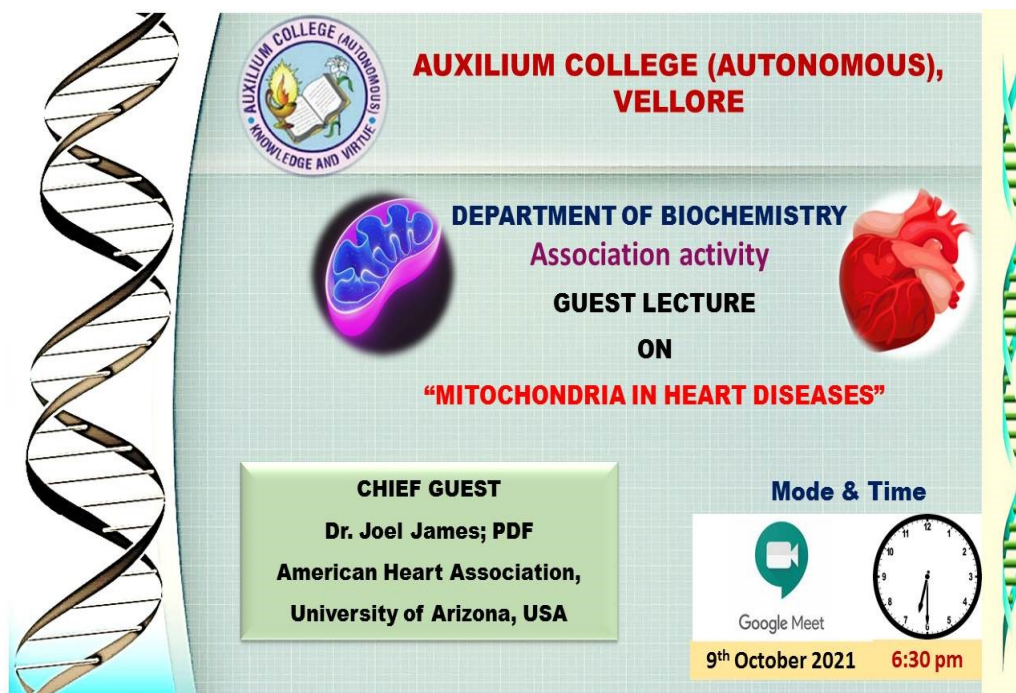
**Meeting link: [meet.google.com/bfo-hier-hrc](https://meet.google.com/bfo-hier-hrc)**



**21.08.2021 – Screen shot of the online Meeting**

## Activity – 2

International webinar was organized on 9<sup>th</sup> October 2021, as a part of association activity. The chief guest was Dr. Joel James.PDF., American Heart Association, University of Arizona, USA. The chief guest delivered a lecture on the topic “**Mitochondria in Heart Diseases**”. Beneficiaries: UG and PG students of the department.

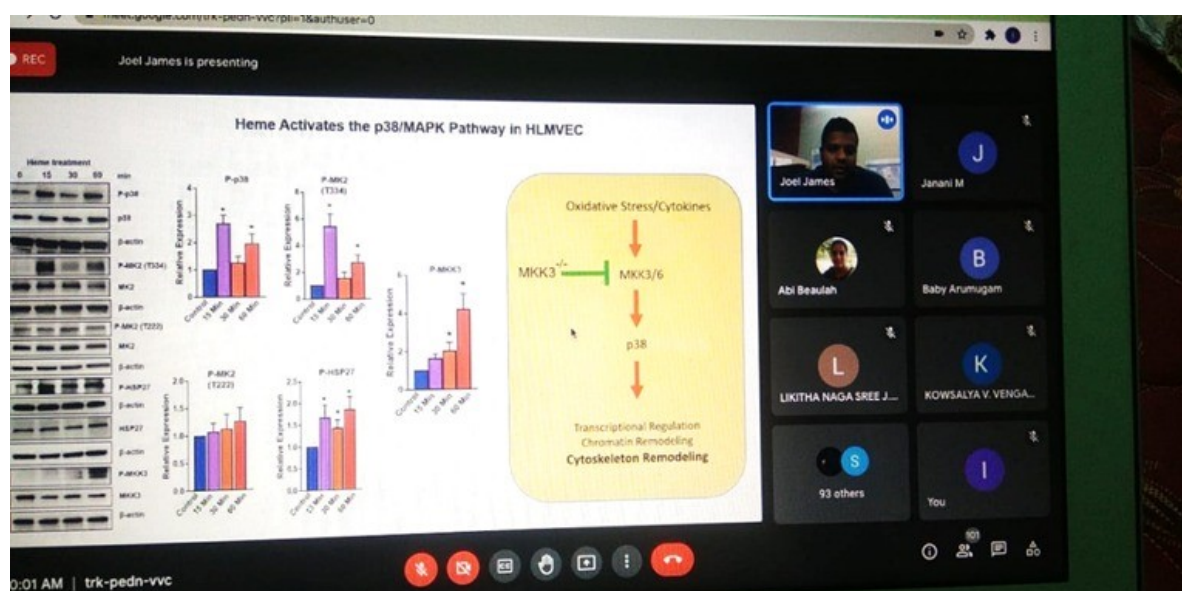


**AUXILIUM COLLEGE (AUTONOMOUS), VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity  
**GUEST LECTURE**  
ON  
**“MITOCHONDRIA IN HEART DISEASES”**

**CHIEF GUEST**  
**Dr. Joel James; PDF**  
American Heart Association,  
University of Arizona, USA

**Mode & Time**  
Google Meet  
**9<sup>th</sup> October 2021 6:30 pm**



**Heme Activates the p38/MAPK Pathway in HLMVEC**

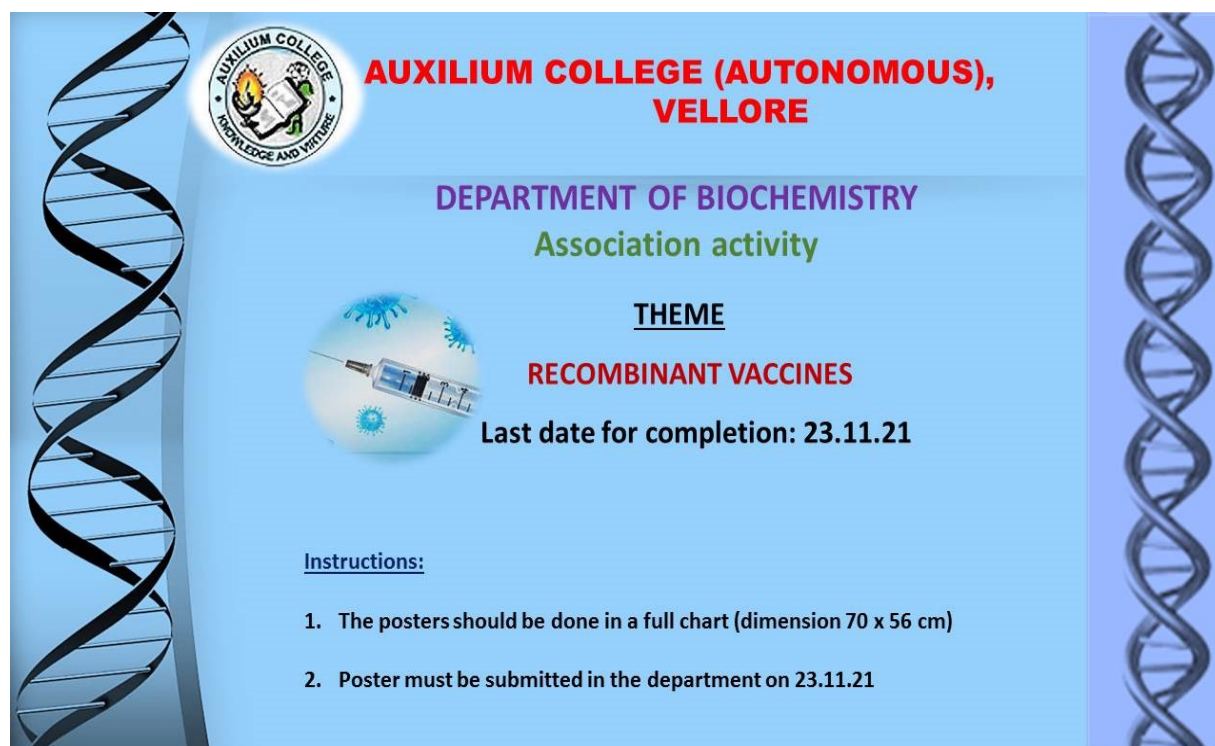
Oxidative Stress/Cytokines  
MKK3<sup>-/-</sup> → MKK3/6 → p38 → Transcriptional Regulation, Chromatin Remodeling, Cytoskeleton Remodeling


0:01 AM | trk-pedn-vcv

**09.10.2021 – Screen shot of the online Meeting**

### Activity – 3

Poster presentation was organized as a part of association activity on 23.11.21 on the theme “**Recombinant Vaccine**”. The students of both UG and PG Biochemistry activity participated in the poster presentation. Dr. G. Abi Beulah, Head and Assistant Professor, Department of Biochemistry, Auxilium College (Autonomous), Vellore judged the posters and announced the prize winners.



 **AUXILIUM COLLEGE (AUTONOMOUS),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

THEME  
**RECOMBINANT VACCINES**

**Last date for completion: 23.11.21**

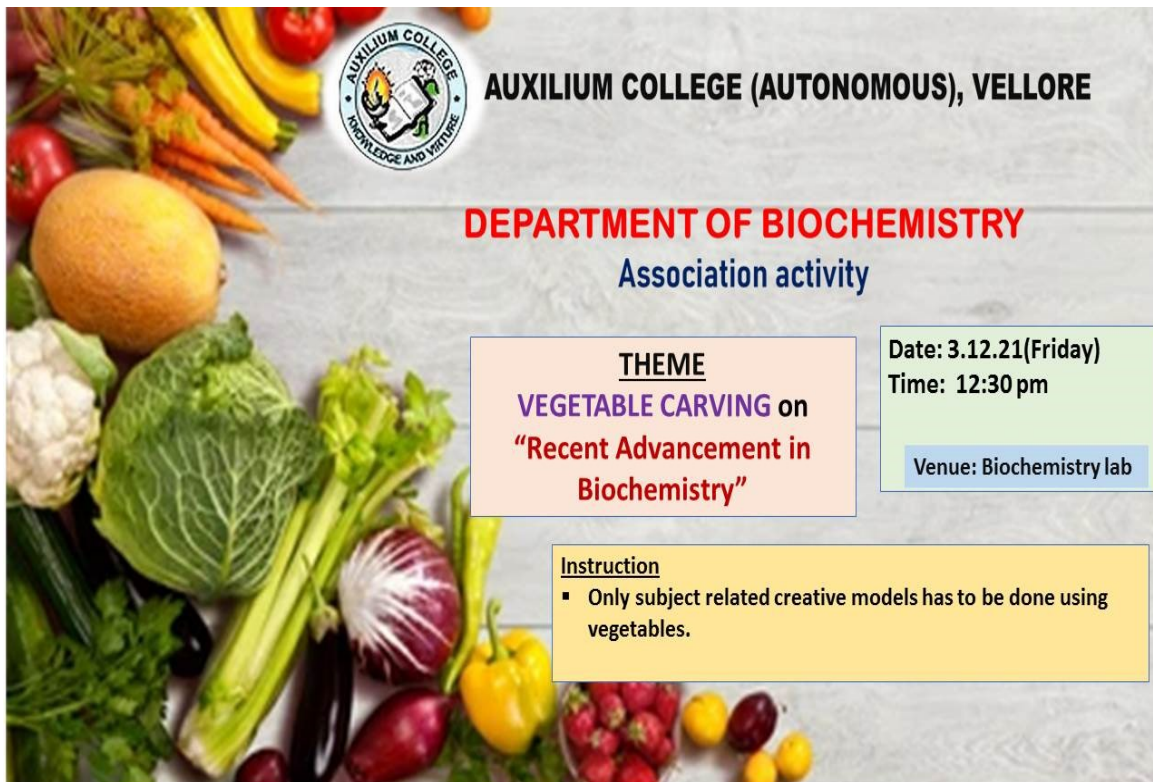
Instructions:


1. The posters should be done in a full chart (dimension 70 x 56 cm)
2. Poster must be submitted in the department on 23.11.21



## Activity – 4

On 03.12.2021, association of Biochemistry conducted vegetable carving competition on the theme “Recent Advancement in Biochemistry”. Ms. B.V Gowri, Head and Assistant Professor, Department of Microbiology, Auxilium College (Autonomous), Vellore judged the competition and announced the prizes. Beneficiaries : 110students.



 **AUXILIUM COLLEGE (AUTONOMOUS), VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**  
Association activity

**THEME**  
**VEGETABLE CARVING on**  
**“Recent Advancement in**  
**Biochemistry”**

Date: 3.12.21(Friday)  
Time: 12:30 pm

Venue: Biochemistry lab

**Instruction**

- Only subject related creative models has to be done using vegetables.



03.12.2021 - Students displaying vegetable

## Activity – 5

On 17.03.2022, Biochemistry association conducted Model making competition on the theme “Trends in Biochemistry”. Ms. Deepa R, Assistant Professor, Department of Microbiology, Auxilium College (Autonomous), Vellore, judged the models and announced the winners. Beneficiaries : 110students.



17.03.2022 - Chief guest judging the models

Academic Year: 2022 – 2023

### Activity – 1

The inauguration of Biochemistry association was held on 25.08.2022. Dr. V. Subhashree, Professor Grade-1, Department of Integrative Biology, School of Biosciences and Technology, VIT, Vellore graced the occasion with her presence. The chief guest animated on “Recent Trends in Functional Foods”. Poster presentation competition was also conducted. Beneficiaries: Around 130 students.

**AUXILIUM COLLEGE (AUTONOMOUS), VELLORE**  
**DEPARTMENT OF BIOCHEMISTRY**  
*Association activity - Inauguration*

**CHIEF GUEST**  
**DR. V. SUBHASHREE**  
**TOPIC: RECENT TRENDS IN FUNCTIONAL FOODS**

**Professor Grade 1**  
**Department of Integrative Biology**  
**School of Biosciences and Technology**  
**VIT, Vellore**

**Date: 25.08.2022**  
**Time: 10:30 am**

**Student's activity - POSTER PRESENTATION**  
**Topic: Recent trends and techniques in Life Sciences**



**25.08.2022 - Dr. V. Subhashree, Professor Grade-1, Department of Integrative Biology, School of Biosciences and Technology, VIT, Vellore**

## Activity – 2

A guest lecture was organized on 19<sup>th</sup> October 2022 on “**Metagenomics and its implications in Biochemistry**”. Dr. Naveen Kumar Devanga Rangupathi, CEO Bioberry’s Healthcare and Research Centre, Sathuvachari, Vellore was the chief guest. Both the UG and PG students of the Biochemistry Department presented the models on the theme “**Techniques in Biosciences**”. The chief guest judged the models and announced the prize winners. The student activity participated in the competition and exhibited their creativity and talent. Beneficiaries: Around 125 students.

**AUXILIUM COLLEGE (AUTONOMOUS), VELLORE**  
**PG DEPARTMENT OF BIOCHEMISTRY**  
*Association activity*  
**"METAGENOMICS AND ITS IMPLICATIONS  
IN BIOCHEMISTRY"**  
**CHIEF GUEST**  
**DR. NAVEEN KUMAR DEVANGA RAGUPATHI,**  
PHD, FLS(LON), MRS,  
**CEO BIOBERRYS HEALTHCARE AND RESEARCH  
CENTRE,  
SATHUVACHARI, VELLORE**

**Date: 19.10.2022**  
**Time: 10:30 am**

**Student's activity – Working models**  
**Topic: Techniques in BioSciences**



**19.10.2022 - Dr. Naveen Kumar Devanga Rangupathi, CEO Bioberry’s  
Healthcare and Research Centre, Sathuvachari, Vellore delivering the talk.**

### Activity – 3

Vegetable carving on the theme “Trends in Biochemistry” was conducted on 24<sup>th</sup> November 2022. Ms. Malathi T, Assistant Professor, Department of Microbiology, Auxilium College (Autonomous), Vellore judged the competition and announced the prize winners. Beneficiaries: Around 125 students got benefited.



 **AUXILIUM COLLEGE (Autonomous),  
VELLORE**

**DEPARTMENT OF BIOCHEMISTRY**

*Association activity*

**VEGETABLE CARVING COMPETITION**

*Judge*  
**Ms. Malathi T**

Assistant Professor, Department of Microbiology,  
Auxilium College (Autonomous), Vellore



**Date: 24. 11. 2022** **Time: 12.30pm**

**Venue: Biochemistry laboratory**



**24.11.2022 - Chief guest judging the models**

#### Activity – 4

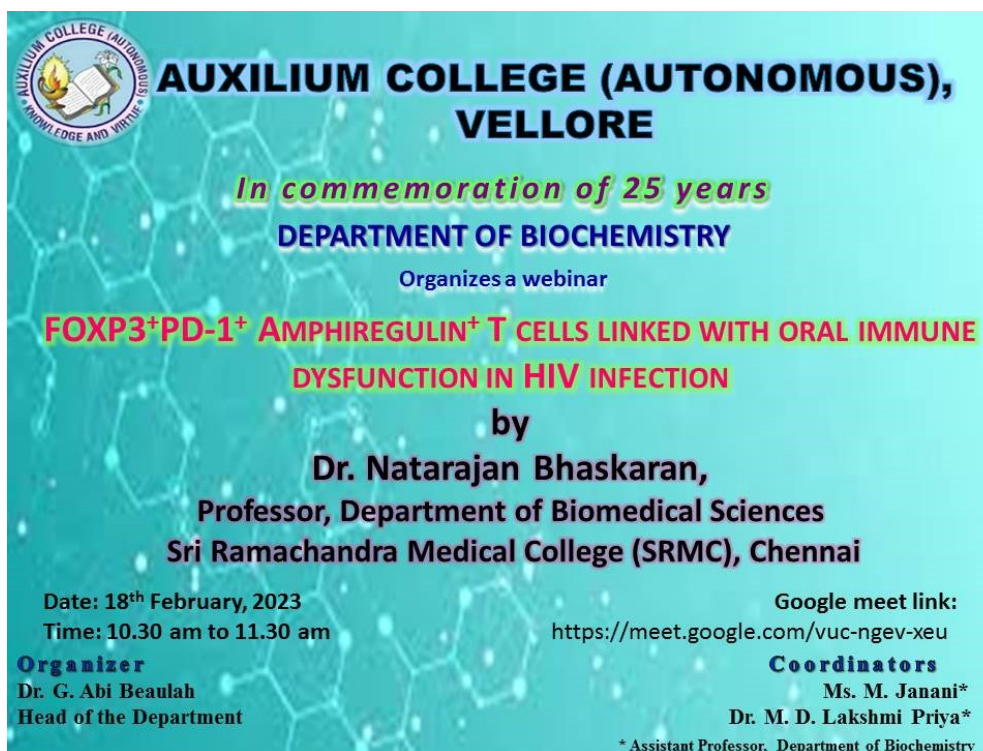
An awareness programme on **“Cervical cancer and its prevention along with the benefit of hpv vaccine”** was organized by the Department of Biochemistry, Microbiology and Zoology in collaboration with Christian Medical College, Vellore on 31<sup>st</sup> January 2023. Dr. Anitha Thomas, Head Department of Gynaecological Oncology delivered a lecture on the women’s health. Dr. Banu, Medical Research Assistant delivered a lecture on hpv vaccines. Dr. Sahana Punneshetty, Assistant Professor, Department of Gynaecological Oncology, animated on **“Cervical cancer and its preventive measures”**. Students actively participated by asking their doubts on hpv vaccine and cervical cancer to the Doctors and got clarified. They were very enthusiastic in placing their palm imprint on the banner after the pledge. Beneficiaries: Around 300 students got benefited.



Palm imprints on the banner after the pledge during the awareness programme on **“Cervical cancer and its prevention along with the benefit of hpv vaccine”** organized by the Department of Biochemistry, Microbiology and Zoology in collaboration with Christian Medical College, Vellore on 31<sup>st</sup> January 2023

## Activity – 5

A webinar was organized by the Department of Biochemistry in collaboration with Saveetha Institute of Medical and Technical sciences, Chennai on 18<sup>th</sup> February 2023. The chief guest, Dr. Natarajan Bhaskaran, Professor, Department of Biomedical Sciences, Sri Ramachandra Medical College (SRMC), Chennai animated on “**FOXP3<sup>+</sup> PD-1<sup>+</sup> Amphiregulin<sup>+</sup> T cells linked with oral immune dysfunction in HIV infection**”. Beneficiaries: Around 135 students got benefited.



**AUXILIUM COLLEGE (AUTONOMOUS),  
VELLORE**

*In commemoration of 25 years*  
**DEPARTMENT OF BIOCHEMISTRY**  
Organizes a webinar

**FOXP3<sup>+</sup>PD-1<sup>+</sup> AMPHIREGULIN<sup>+</sup> T CELLS LINKED WITH ORAL IMMUNE  
DYSFUNCTION IN HIV INFECTION**

by  
**Dr. Natarajan Bhaskaran,**  
Professor, Department of Biomedical Sciences  
Sri Ramachandra Medical College (SRMC), Chennai

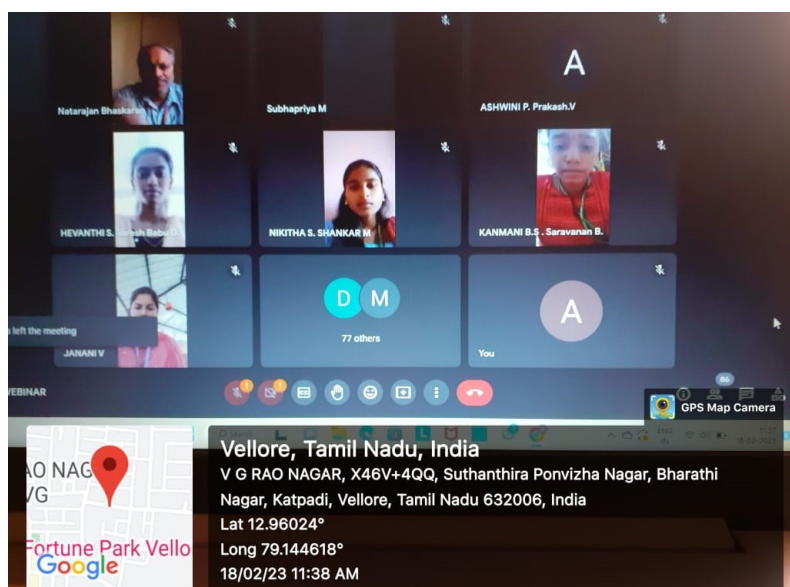
Date: 18<sup>th</sup> February, 2023  
Time: 10.30 am to 11.30 am

Google meet link:  
<https://meet.google.com/vuc-ngev-xeu>

**Organizer**  
Dr. G. Abi Beulah  
Head of the Department

**Coordinators**  
Ms. M. Janani\*  
Dr. M. D. Lakshmi Priya\*

\* Assistant Professor, Department of Biochemistry



**18.02.2023 – Screen shot of the online Meeting**