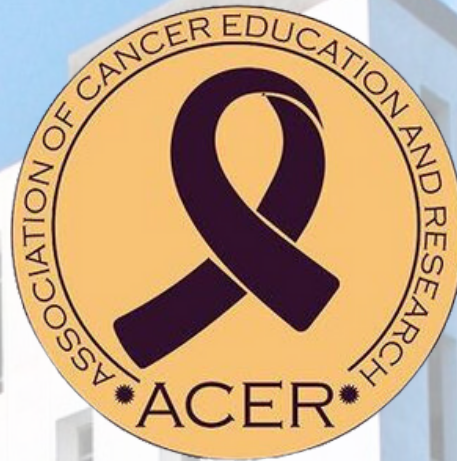




B.S. Abdur Rahman™
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ACER

ONKOS E-ZINE

2021
VOLUME 2

Editor-In-Chief:
Dr. S. Hemalatha,
Professor & Dean (SLS)

Co-Editors:
Dr. P. Ashok Kumar
Dr. Neesar Ahmed
Dr. Soumen Bera

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President:

Dr. S. Hemalatha



Co-ordinators

Dr. P. Ashok Kumar

Dr. Neesar Ahmed

Dr. Soumen Bera



VISION

Cancer Control among community through education and research.

MISSION



- To disseminate cancer awareness through organised seminar, workshops and conferences.
- To encourage cancer based research among the students and research scholars.

CANCER FACTS

K.NASHIHA BEGUM

B.Tech Biotechnology, School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai-600048.

FACT 1 - Cancer is a group of diseases.

Cancer is a group of diseases characterised by uncontrolled growth and spread of abnormal cells. There are over 100 types of cancer and any part of the body can be affected.

FACT 2 - About 16% of people die from cancer.

In 2015, 8.8 million people died from cancer-nearly 1 in 6 global death. In 2020, more than 1.8 million new cancer cases are suspected to be diagnosed.

FACT 3 - Cancer Affects everyone.

About 70% of death from cancer occur in low & middle income countries. The highest cancer rate found in Australia. The age rate was at least 300 per 1,00,000 in 11 countries (Australia, New Zealand, Hungary, Belgium, Canada, Denmark, Ireland, The US, Netherlands, Norway & South Korea).

FACT 4 - Most deadly top 5 types of cancer killing Men.

Worldwide, In 2019, most Deadly top 5 cancer for Men is lung cancer, prostate cancer, Colon cancer, Pancreas & Liver cancer.



FACT 5 - Most deadly top 5 types of cancer killing Women.

Worldwide, In 2019, most Deadly top 5 cancer for Women is lung cancer, Breast cancer, Colon cancer, Pancreas & Ovary cancer.

FACT 6 - Avoid using Tobacco can help to prevent cancer.

Tobacco use is the largest preventable cause of cancer. Smoking tobacco accounts 30% of all cancer death & 80% of all lung Cancer deaths. Encourage your loved ones to quit Smoking.



FACT 7 - Vaccination against cancer-causing Infections.

In 2012, cancer-causing Infections is more responsible for 2% of new diagnosed cancer in low income countries. Infective agents such as Human Papilloma virus(HPV) & Hepatitis B virus(HBV) can cause cervical& liver cancer.Vaccination against this 2 virus could prevent 1.1 millions of cancer cause each year.



FACT 8 - Good food and Lifestyle can reduce cancer.

30-50% of cancer cases are preventable. The following behaviour can reduce risk of cancer; Maintain a healthy body,doing excercise, eating high amount of vegetable and fruits & Avoiding Smoke and alcohol.



FACT 9 - About 1% of new cancer diagnosis found in childhood.

In 2018, about 15,590 childrens and teen(0-19 years) were diagnosed with cancer. Although uncommon , cancer is the leading cause of death by disease in children.



FACT 9 - About 1% of new cancer diagnosis found in childhood.

In 2017, compare to 90% of high income countries, the low income countries has less than 30% of reported treatment services were available. Approximately 70% of deaths from cancer occur in low & middle income countries.



Webinar on "Cancer, Causes and Prevention"

Organized by

**B.S. Abdur Rahman Crescent Institute of
Science & Technology**

School of Life Sciences



on

31st March 2021

Convenor

Dr. S. Hemalatha
Professor & Head
School of Life Sciences

Coordinators

Dr. Md. Khurshid Alam Khan
Associate Professor
School of Life Sciences

Brochure



B.S. Abdur Rahman
Crescent
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SCHOOL OF LIFE SCIENCES

Webinar
On
Cancer, Causes and Prevention

31-03-2021
3 – 4 PM

Dr. S. Hemalatha
Professor and Dean
School of Life Sciences
BSACIST, India

Coordinator
Dr. Md. Khurshid Alam Khan
Associate Professor
School of Life Sciences
BSACIST, India

Eligibility
All UG, PG & Ph. D. Students



Asrar Alam, Ph.D.
Dr. B. R. Ambedkar Institute
Rotary Cancer Hospital
All India Institute of Medical Sciences
Ansari Nagar, New Delhi
India

For Registration
<https://forms.gle/fTPuJp9Rh3cvCqjN6>



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CONVENOR

SPEAKER

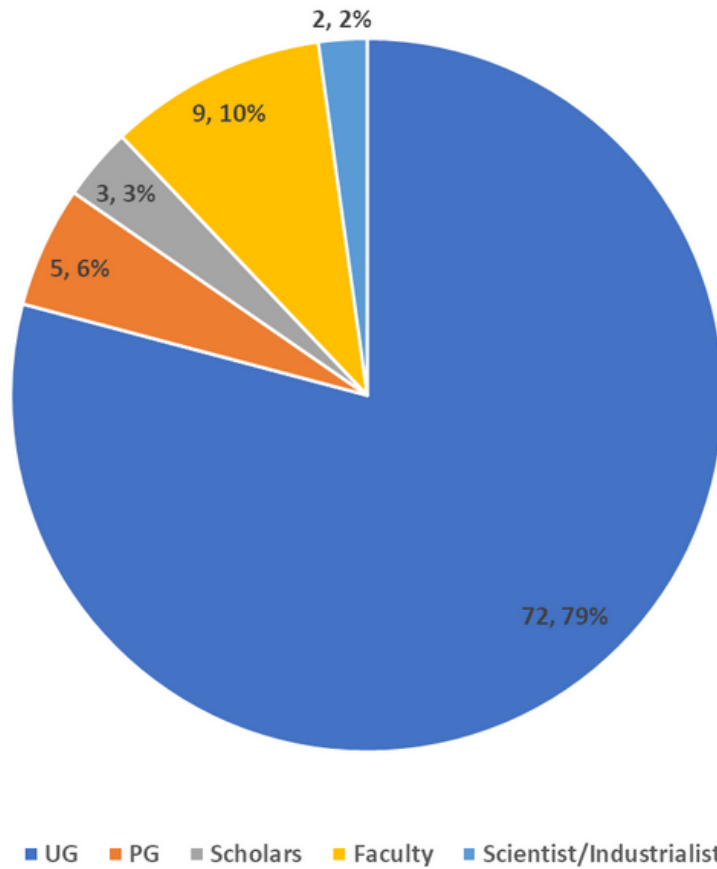
Nature of Participants: **Undergraduate and Post-graduate students, Research Scholars, Professors, Scientist**

Total number of participants: **91**

Registration Fee: **Free**

Kyrie Petrakis

Participants Distribution



Registration link: <https://forms.gle/fTPuJp9Rh3cvCqjN6>

Session: Cancer- Causes and Prevention

Speaker: Asrar Alam, Ph.D., Dr. B. R. Ambedkar Institute, Rotary Cancer Hospital, All India Institute of Medical Sciences, Ansari Nagar, New Delhi, India

Cancer: Causes and Prevention

Asrar Alam
Scientist-I (Preventive Oncology)
Dr. B. R. Ambedkar Institute Rotary Cancer Hospital
All India Institute of Medical Sciences
New Delhi



2nd Virtual Annual International Conference on Naturopathy, Nanotechnology, Nutraceuticals and Immunotherapy in Cancer Research - 2021

Organized by

School of Life Sciences &

Association of Cancer Education and Research (ACER)

B.S. Abdur Rahman Crescent Institute of Science & Technology

in association with

W Purdue University, USA

Sponsored by

Tamil Nadu State Council for Science & Technology (TNSCST)

&

Microbiologist Society, India (MSI)



on

11th – 12th June 2021

Organizing Secretary

Dr. S. Hemalatha
Professor & Head
School of Life Sciences

Dr. Raji Sundararajan
Professor,
Purdue University, USA

Dr. Ignacio Camarillo
Associate Professor,
Purdue University, USA

Coordinators

Dr. P. Ashok Kumar (Assoc. Prof)
Dr. Soumen Bera (Asst. Prof)
Dr. Neesar Ahmed (Asst. Prof)



2nd Virtual Annual International Conference on Naturopathy, Nanotechnology, Nutraceuticals and Immunotherapy in Cancer Research - 2021

JUNE 11 – 12, 2021

IC N³ IC - 21

Organized by

School of Life Sciences & Association of Cancer Education and Research (ACER) B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India In association with Purdue University, USA Sponsored by Tamil Nadu State Council for Science & Technology (TNSCST) & Microbiologist Society, India (MSI)

For registration - Scan QR code <https://bit.ly/29rtaq2>

For Abstract Submission - Scan QR code <https://bit.ly/3uPoytb>

Contact us workshop.sls@cresecent.education +918248145481; +917418362096

2nd Virtual Annual International Conference on Naturopathy, Nanotechnology, Nutraceuticals and Immunotherapy in Cancer Research - 2021

JUNE 11-12, 2021

IC N³ IC - 21

Featured Speakers

- Dr. Ignacio Camerillo, Purdue University, USA
- Dr. Raji Sundararajan, Purdue University, USA
- Dr. Allen Garner, Purdue University, USA
- Dr. Elisabatta Seini, Insubria University, Italy
- Dr. A Suresh kumar, CLRI, India

Theme of the Conference

- Natural Products and Alternative Medicine
- Drug Repurposing
- Nanotechnology and Nanomedicine
- Cancer Immunology
- Drug Resistance
- Regenerative Medicine

Full-Paper Publication

- Accepted papers will be published in Applied Biochemistry and Biotechnology Journal – Special Issue (Scopus Indexed; Impact Factor: 2.27).
- Accepted review articles will be published in special section on "Biotechnology and Nutraceuticals" in Current Pharmacology Reports (Scopus Indexed) Journal

About Conference

ICN³IC - 21 is an interdisciplinary event that invites participants from various universities, research institutes, industries and diagnostic centers to share their research experience and exchange ideas on various aspects of Naturopathy, Nanotechnology, Nutraceuticals and Immunotherapy in cancer research. ICN³IC-21 also provides an opportunity to communicate with leading scientists, researchers, academicians and students from all around the world.

About ACER

Association of Cancer Education and Research (ACER) is started with the aim to control the spread of cancer among the community through education and research. By disseminating cancer awareness through seminars, workshops and conferences. ACER also aims to encourage cancer based research among the students and research scholars.

About B.S. Abdur Rahman Crescent Institute of Science and Technology, India

B.S. Abdur Rahman Crescent Institute of Science and Technology is accredited with "A" grade by NAAC, ranked 3rd among the Engineering Institutions in Tamilnadu in teaching, learning and resources by NIRF, MHRD. It has track record of 37 years of Excellence in offering Engineering, Science and Management programmes. Being one of the leading engineering institutions in India, it focuses on academic excellence, innovative research and entrepreneurship.

About the School of Life Sciences

School of Life Sciences is awarded as THE BEST POTENTIAL SCHOOL in BSACIST, excelling in teaching, research and training programmes across the interdisciplinary areas of life sciences by nurturing student's bioentrepreneurship. The school offers Undergraduate, Postgraduate and Doctoral programmes in Life Sciences.

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Dr. Neehar Ahmed (Asst. Prof.), SLS, BSACIST

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Dr. M. Wassem, SLS, BSACIST

Scientific Assistants
Ms. S. Ranjani, SLS, BSACIST
Dr. I. Farzina Begum, SLS, BSACIST
Dr. C. Simon Durairaj, SLS, BSACIST

Testimonials from the Past Cancer Conference

- Overall, the event gave an experience equivalent to that of a real seminar although it was a virtual one. I thank all the speakers for sharing their research with us and guiding us for the days to come. I also thank the organizers at Crescent Institute for taking the initiative to conduct such a wonderful event benefitting all of us during this stagnant period, enriching our knowledge and taking the pain to give this conference all the feeling of a real one.
Breekala K. G., University of Madras, Chennai
- Yeah, I must thank all the organizing team for giving this impeccable opportunity to all of us with a low cost. The lectures you posted in the you tube were of eminent one. We don't even get the chance of listening to the great achiever's lectures. But you made it. By the way, "YOU DELIVERED OUR NEED". Thank you all. Looking for more webinars.
N. Priyadarshini, Rajalakshmi Engineering College, Chennai
- My experience in participating ICBCR 2020 was splendid. It was a great opportunity for me to listen to researchers from India and other developed countries. I learned more on Cancer research and various novel therapies. I am grateful for the university and the conducting committee for such successful event.
K. Gayathri, Prathyusha Engineering College, Chennai
- Good experience with qualified personnel gave a clear look towards the future of the cancer and theory. It was a great session and the logistics were of a great approach in this field.
Madhini Shevkar, VISTA, Chennai
- We have gain lots of knowledge and experience on this conference.
Subhasini Yadav, CMP degree College (University of Allahabad), Prayagraj
- Over all this conference is too good and very informative also
Pushpendra Kumar, St. Wilfred's PG College, Jaipur
- It was a good package of sessions on different topics and everything is well organised. I could acquire a lot of knowledge on different topics.
Dr. Geetha Kumari Konathala, Andhra University, Visakhapatnam

Dates to Remember

Abstract submission deadline	06-06-2021
Registration closes on	10-06-2021
Video submission deadline	10-06-2021

Account Details

Acc. Name	: Dean, School of Life Sciences
Acc. No.	: 165701000019853
IFSC code	: IOBA0001657
Bank	: Indian Overseas Bank (IOB)
Branch	: Vandavur, Chennai

Who can Participate?
Faculties, Scientists, Research Scholars, Undergraduate and Post-Graduate Students from Universities, Research Institutes, Colleges, Hospitals, etc.

Registration Fee*

U.G. & P.G. Students	Rs.100/-
Research Scholars	Rs.200/-
Faculties/Scientists/Others	Rs.500/-

(*Attractive Group discount of 5 members or more from the same Institute and same levels of participants
* Please contact us for availing the group discounts)

How to Register

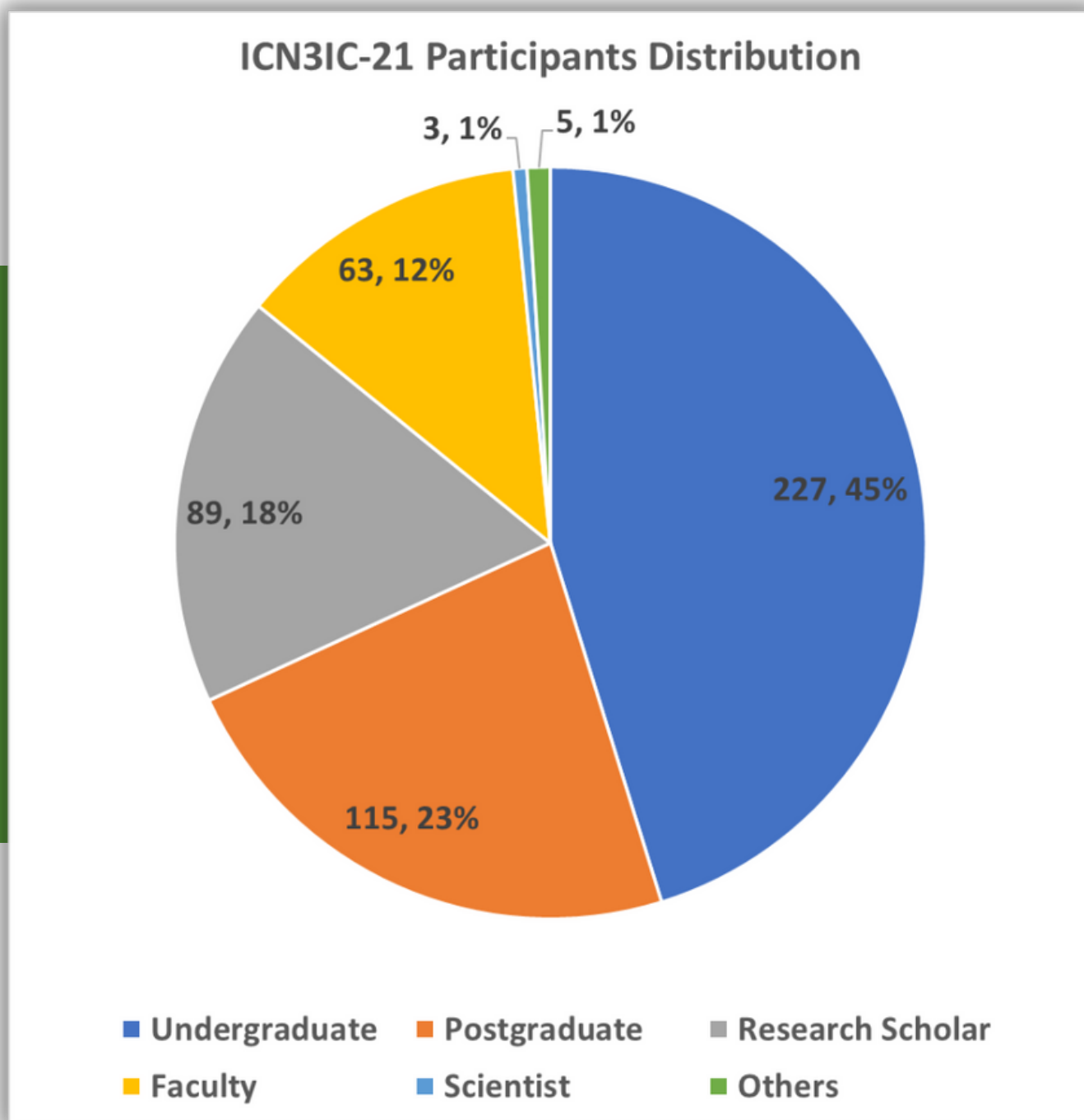
- Transfer the money to the A/c no.
- Copy the transaction no. and take a screenshot of your payment
- Follow the registration link or Scan QR code to register
- Provide your Name and basic details
- Send the proof of your payment to the email workshop.sls@cresecent.education. (In the email subject please mention, "Registration proof")

Abstract & e-Poster Submission

- Please use the same name and email address for Conference Registration and Abstract Submission.
- Abstract should not exceed 250 words excluding title and authors details
- Use the link separately provided for abstract submission. (Filling the form is essential to consider your abstract).
- If you need to submit more than one abstract, use new form for each additional abstract.
- Make a 3-5 minutes video and send to us through email workshop.sls@cresecent.education
- All the uploaded abstract will be reviewed by the review committee.
- Upon the reviewer's decision, the selected abstract will be called for full paper and peer-reviewed to publish in Applied Biochemistry and Biotechnology Journal (Scopus Indexed; Impact Factor: 2.27).

Nature of Participants: **Undergraduate and Post graduate students, Research Scholars, Professors, Scientist**

➤➤➤ TOTAL NUMBER OF PARTICIPANTS: 502



Registration link: <https://bit.ly/2RcfaqD>

Abstract Submission link: <https://bit.ly/3uPoyzb>



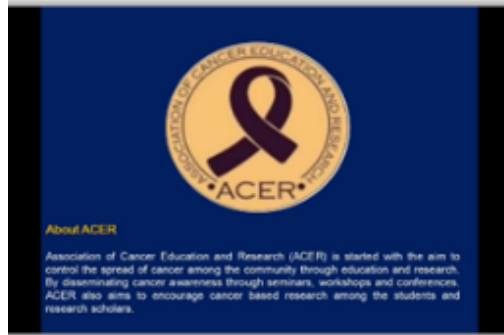
➤➤➤ DAY 1 (11.06.2021)

Session 1:

Inaugural address of ICN3IC-21

Speaker: Dr. S. Hemalatha, Professor & Dean, President, ACER

Video URL: <https://youtu.be/X8pmObd9zws>



About Association of Cancer Research & Education (ACER)

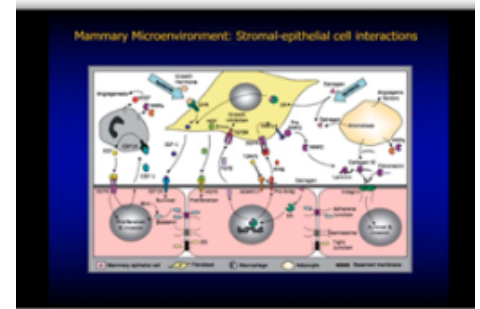
Speaker: Dr. Neesar Ahmed, Assistant Professor (Sel.Gr.),
School of Life Sciences

Video URL: <https://youtu.be/X8pmObd9zws?t=327>

Plenary Lecture: Mechanisms of Obesity and Leptin in Breast Cancer

Speaker: Dr. Ignacio G. Camarillo, Department of Biological Sciences, Purdue University, USA

Video URL: <https://youtu.be/ljCmT0VzT8o>



Invited Talk 1: 3D scaffolds to mimic extra-cellular matrix: evaluation of the cell electroporation)

Speaker: Dr. Elisebatta Seini, Department of Theoretical and Applied Science, University of Insubria, Varese, Italy

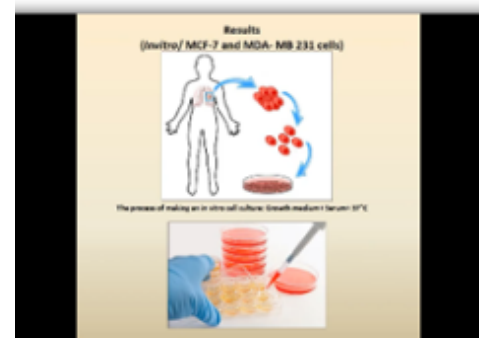
Video URL: <https://youtu.be/chWDzrqxF4>

Session 2

Invited Talk 2: Therapeutic aspects of FOXO signaling in breast cancer cells using natural products

Speaker: Dr. A. Suresh Kumar, Senior Scientist, Department of Biochemistry and Biotechnology, CSIR-CLRI, Adyar, Chennai, India

Video URL: <https://youtu.be/2xwdlzRNjRk>



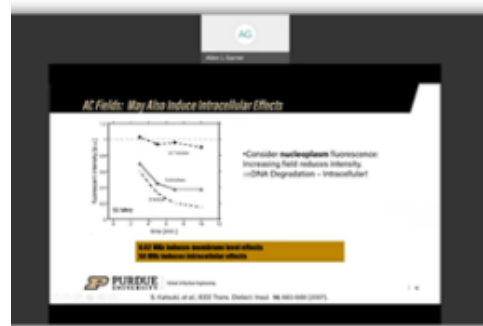
➤➤➤ DAY 2 (12.06.2021)

Session 3

Invited Talk 3: Characterizing the Interactions of Electromagnetic Field Interactions with Biological Cells to Guide Medical Applications

Speaker: Dr. Allen Garner, Associate Professor, School of Nuclear Engineering, School of Electrical and Computer Engineering, Department of Agricultural and Biological Engineering, Purdue University, USA

Video URL: <https://youtu.be/INZyEQaljR0>



Invited Talk 4: Cancer therapy: Cues from Nature

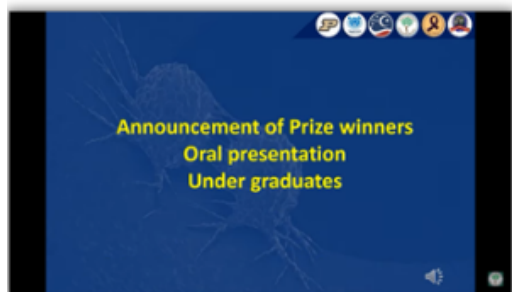
Speaker: Dr. Kavitha Sankaranarayanan, Head, Ion Channel Biology Laboratory and AYUSH Research Centre, AU-KBC Research Centre, MIT Campus of Anna University, Chennai, India about Cancer therapy: Cures from Nature

Video URL: <https://youtu.be/jTu5MW4uRjM>

Session 4: Valedictory Session

ICN³ IC-21 Report. Speaker: Dr. Soumen Bera, Assistant Professor, School of Life Sciences

Video URL: <https://youtu.be/BdXwtwSbITA>



Announcement of awards

Speaker: Dr. C Simon Durairaj, Scientific Assistant, School of Life Sciences

Video URL: <https://youtu.be/SGkXxOGBYp4>

Vote of Thanks

Speaker: Dr. Ashok Kumar Pandurangan, Associate Professor, School of Life Sciences

Video URL: https://youtu.be/PsRewUr_m2E



Publications of SLS related to cancer

1. Ubaid. R, Mubarakali, D and S. Hemalatha* Copper nanoparticles: easily accessible nano-weapons against the escalating antibiotic resistance Nano-Strategies for Combatting Antimicrobial Resistance and Cancer. Handbook of Research on Nano-Strategies for Combatting Antimicrobial Resistance and Cancer IGI Global, 2021. <https://doi.org/10.4018/978-1-7998-5049-6.ch018>
2. Lakshya M, Ignacio G. C, Gowri Sree V, S.Hemalatha, Uma K.A Raji S. High-throughput, Label-Free Quantitative Proteomic Studies of the Anticancer effects of Electrical Pulses with Turmeric Silver Nanoparticles: an in vitro Model Study Nature Sci Rep 10,7258 (2020). (Impact factor 4.379)(Scopus and web of science indexed). <https://doi.org/10.1038/s41598-020-64128-8>
3. L.Mittal, Ranjani.S, Shariq Ahmed.M, Jeya Shree T, Tahira A , Poompavai S, IG Camarillo, GowriSree V, Raji S and S.Hemalatha*.Turmeric-Silver-Nanoparticles for Effective Treatment of Breast Cancer and to break CTX-M-15 mediated Antibiotic Resistance in Escherichia coli Inorganic and Nano-Metal Chemistry, 51:6,867-874, 2020. (web of science indexed) (Impact factor 1.716). <https://doi.org/10.1080/24701556.2020.1812644>.
4. M.Fazeela Mahaboob Begum & S.Hemalatha*. Zebrafish an Emerging Biomedical Tool in Translational Research International Journal of Advance Study and Research Work (2581-5997)/ Special Issue ICROIRT-2020/September 2020, 611-613.
5. Adil A.A.Shabnam. A, Ashok Kumar.P, S Hemalatha, Neesar A, N.Ali,A.F. AlAsmari, M.Aashique and M. Waseem*. Emerging Role of Mitophagy in Inflammatory Diseases: Cellular and Molecular Episodes. Current Pharma, Design, 2020, 26 (4), 1-7. (Scopus and Wos indexed). (Impact factor 3.31) <http://dx.doi.org/10.2174/1381612826666200107144810>



Publications of SLS related to cancer

6. R.Kaushik, S.Khan, M. Sharma S. Hemalatha*, Z.Mueed and N.Poddar. Role of Cytochrome P450 in Prostrate Cancer and its Therapy. *Curr, Enz, Inhi.*, 2020, 16, 1-11. (Scopus indexed). (Impact factor 0.5) <http://dx.doi.org/10.2174/1573408016666200218122044>.

7. SMF. Begum, S. Hemalatha*. Phytoconstituents from *Gelidiella acerosa* induce apoptosis by regulating Bax, Bcl2 expression in A549 cells. *Biocat. Agri. Biotech.* 2020, 29, 101757 (Scopus indexed). <https://doi.org/10.1016/j.bcab.2020.101757>.

8. Arpudha mary, S. Priya, Muhammed A.P. Manzoor, D. Mubarakali, S. Hemalatha* Apoptotic-inducing factor 1 (AIF1) is critical in cembranoid mediated apoptosis to control cancer *Biocat.Agri.biotech*, 2019 Volume 22, 101343, ISSN 1878-8181, (Scopus indexed) (Cite score 2.9) <https://doi.org/10.1016/j.bcab.2019.101343>

9. Shirin Lutfiya. A, S. Priya, Muhammed A.P. Manzoor, S. Hemalatha* Molecular docking and interactions between vascular endothelial growth factor (VEGF) receptors and phytochemicals: Anin-silicostudy *Biocat.Agri.biotech*, 22, 101424, 2019, ISSN 1878-8181 2019 (Cite score 2.9) (Scopus indexed) <https://doi.org/10.1016/j.bcab.2019.101424>.

10. Rubeena Dar, Parveiz Iqbal, Pandurangan AK*. Strong Association and Effect of Lifestyle and Clinicopathological Risk Factors in Colorectal Cancer during Treatment Process - A Study based on Kashmiri Population. *Toxicology and Environmental Health Sciences* 13 (2020) 73-81. (Scopus indexed)



Publications of SLS related to cancer

11. Samidurai D, Pandurangan AK, Krishnamoorthi S, Perumal MK, Nanjian R. Sinensetin isolated from *Orthosiphon aristatus* inhibits cell proliferation and induces apoptosis in hepatocellular carcinoma cells. *Process Biochemistry*, 88 (2020) 213-221. (Scopus/Wos indexed) (Impact factor 4.885)

12. Harini Ramesh, Radhakrishnan Narayanaswamy, Mohamed Adil A.A, Revathi K, Pandurangan AK*. Natural compounds as inhibitors of Beta catenin: An insilico study. *Annals of the Romanian Society for Cell Biology*, 24(1)(2020) 343 - 348. (*Corresponding author) (Scopus indexed)

13. Naziya Sayeed H, Mohamed Adil. AA, Pandurangan AK, Revathi. K, MohammedWaseem, Vickram AS. Targeting Immunocheckpoin in The Tumor Microenvironment and Cancer Immunotherapy. *Annals of the Romanian Society for Cell Biology*, 24(1) (2020) 297 - 316.) (Scopus indexed)

14. Naziya Sayeed, Mohamed Adil AA, Pandurangan AK, Revathi K, Anil kumar B, Khan KA. Immunotherapy Methods Towards Colitis Associated Cancer - A Systematic Review. *Annals of the Romanian Society for Cell Biology*, 24(1) (2020) 525- 542.) (Scopus indexed)

15. Mohebbali N, Pandurangan AK*, Mustafa MR, Anandasadagopan SK, Alagumuthu T. Vernodalin induces apoptosis through ROS/JNK pathway activation in human colon cancer cells. *Journal of Biochemical and Molecular Toxicology* 34(12) (2020) e22577. (*Corresponding author) (Scopus/Wos indexed) (Impact factor 3.568)



PHOTO & ART CORNER



P. Megavardhini, B.Sc. Biotechnology



G. Dhanya, B.Sc. Biotechnology



G. Dhanya, B.Sc. Biotechnology

Membership Application



ASSOCIATION OF CANCER EDUCATION AND RESEARCH (ACER)– INDIA

MEMBERSHIP APPLICATION

Full Name (In BLOCK LETTERS): _____

D.O.B & Age : _____ Sex: Male/Female Nationality: _____

Institutional address: _____

Address for correspondence: _____

Phone: (O) _____ (M) _____ Fax: _____

Email: _____

Academic Qualifications: _____

Professional experience: _____

Number of publications: _____

Membership Fee (Payable through a bank transfer Acc. Name : Dean, School of Life Sciences, Acc. No.: 165701000019853, IFSC code: IOBA0001657 , Bank : Indian Overseas Bank (IOB) , Branch : Vandalur, Chennai)

Subscription	Membership Fee	Admission Fee	Total Payment
Life Member	Rs.3000/-	Rs. 50/-	Rs.3050/-
Ordinary Member	Rs. 500/-	Rs. 50/-	Rs. 550/-
Student Member	Rs. 250/-	Rs. 50/-	Rs. 350/-
Life Member (Foreigners)			250 USD

Kindly send your fees by

I enclose herewith Rs./US\$ ----- by demand draft No. -----

Drawn on ----- dated----- as membership fee.

Place : _____

Date: _____

Signature _____

Introduced by _____

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Dr. S. Hemalatha, President,
ACER-India, School of Life Sciences, BSACIST, Vandalur, Chennai

For office use

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DESIGNERS:

Muhammad Waleed, B.Tech Biotechnology (2020-2024)

Ronisha. S, B.Tech Biotechnology (2020-2024)



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