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NEWSLETTER

THE LYCEUM

VOICE OF ECM

CONTENT AND MAINS



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ABOUT THE DEPARTMENT

Department of Electronics and Computer Science (ECS) is a course that aims to combine two separate fields of engineering to meet demands made by electronics and computer industries. This program has been developed in response to the industry demands to develop students hardware and software engineering skills in an integrated way. Our curriculum focuses on many real-time applications, which includes smart homes, smart city, smart traffic management, smart agriculture, healthcare applications, web designing, cyber security, automotive electronics, environmental monitoring etc.

The undergraduate course mainly focuses on electronics courses like analog electronics, digital electronics, embedded system, communication system and computer courses like logical thinking, data structures and algorithms, DBMS, Web development, computer network, software engineering. Internet of Things (IoT), Machine Learning, Artificial Intelligence, Deep Learning etc. Our department provides a specialization in Embedded Systems, Web Technologies, IoT (Internet of things), VLSI, Artificial Intelligence and Machine Learning etc. And department offering one Post Graduation programme, (Embedded Systems) which suits for industrial needs.

The Course helps the students to enter into various professions as Embedded Engineers, Firmware Engineers, Software Engineers, Software Developers, Web Application Developers, IoT Application Developers, Automobile Electronics Engineers, ICT (information Communication Technology) Engineers, VLSI Engineers, Forensic Engineer etc. Many companies need engineers with hardware and software knowledge, and our students conform to their requirements. Our department provides proficiency in many aspects of the student's career like assistance for master degree program both in and out of the country through GATE, GRE, TOFEL, IELTS etc.

OUR VISION

To impart value-based, state-of-the-art education and motivate students to become socially committed professionals for their overall development

OUR MISSION

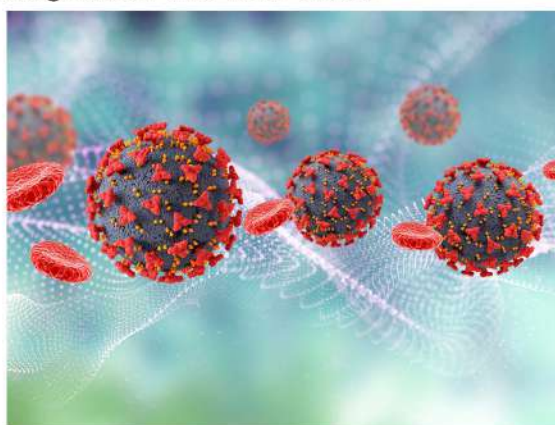
To promote innovation centric education and perform cutting edge research in interdisciplinary and multidisciplinary areas



THEME ARTICLE

Do we have a cancer cure in sight?

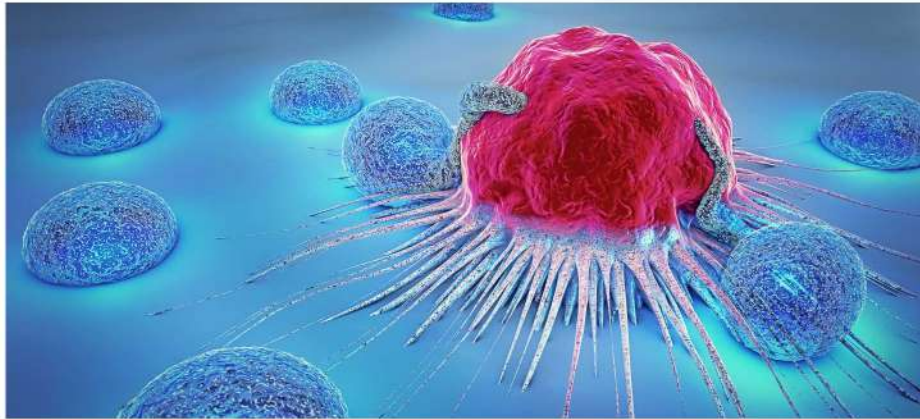
India's cancer growth rates are among the global highest, as per the Cancer Statistics report. Cancer cases increased at an average annual rate of 1.1-2 per cent from 2010-2019. As the world grapples with the burden of the dreaded 'C' word, the news of a drug trial having miraculously removed tumors from a few patients who took a drug called **Dostarlimab** bought some ray of hope. It was a small clinical trial where patients with rectal cancer were put on immunotherapy for 6 months. Now this brings us to the question if we can finally hope for a cancer treatment for all cancers? Is the cancer cure near or will we still have to wait before the cure reaches all? Last month when I visited several hospitals in India I spoke to leading oncologists to know their thoughts on the new trial...



This trial was done in eighteen patients and they published the data, results of which are now known internationally. This drug is actually useful in a subset of rectal cancer patients which have one specific genetic abnormality which is known as MMR, which is known as mismatch repair gene deficiency. So these patients respond very nicely to this monoclonal antibody. It is a kind of antibody, which works by improving the body's immunity, and it helps the body's own immunity to go and kill the cancer cells. The results are really very fascinating because all the 12 patients had a very good response, and at six months, no tumor was seen in their body. So the results are very encouraging. How I see this result is that, though this is a phase two data which we have, it looks like a very effective treatment for this subset of patients. And among all the patients of cancer, there'll be 5% patients who have this kind of deficiency in the cancer cells. So in these kinds of tumors, drugs like this can work marvelously.



So with respect to cancer cure, cancer is very much curable, specially in stage one, sometimes in stage three too. Only stage four is where we really struggle with cures. But then with these new antibodies which are targeting specific gene abnormalities in cancer cells, we are reaching clarets of functional cures even in stage four cancer patients.



This is an important trial to prove the concept of tailoring cancer treatment according to individual patients. This trial drug (Dostarlimab) however is not the panacea for all cancers. Dostarlimab is an immunotherapy drug. Immunotherapy drugs have become another pillar of cancer care in recent years. There are many drugs (Pembrolizumab, Nivolumab, Atezolizumab, Ipilimumab etc) similar to Dostarlimab in the market now including Indian market and will be available in a cancer center near you. But all these drugs are meant for very specific indications.

The 12 patient trial is a very small trial (called phase 2 trial) and has been done in patients with cancer of the rectum (the terminal part of the large intestine). All these patients were unique as their cancer was deficient for a gene called mismatch repair. The people with this kind of gene abnormality are more sensitive to treatment with immunotherapy. That is the reason for such a response to the treatment. The reason why there has been no side effects is because the case numbers are very low and the treatment period is relatively short. Dostarlimab may turn out to be a very important drug in the oncologists armamentarium, but it is unlikely to be a magic bullet.

The bigger concern currently is the cost of the immunotherapy drugs. A paper presented by **Tata Memorial Hospital** in the same meeting where Dostarlimab data was presented, reported that only three percent of Indian patients are able to even afford these drugs which is quite a sorry state of affairs. We need not just the drugs but also policies which make these drugs affordable and available to common people. That is a tall order.

As for how soon we will have a cure, it is a hope of every cancer scientist and every cancer research. Only time will tell...

PUVVALA NARENDRA
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FACULTY ARTICLE

WEB 3.0

Web3, or Web 3.0, is the newest iteration of the World Wide Web, aimed at basing the internet on the blockchain. Web1 relied on static web pages, while users were mainly consumers of content. Web2 is the internet we currently use today, defined as the era based on social media and companies that use lots of our personal data, as well as tons of user-generated content. Web3 is meant to be more decentralized and not reliant on companies like

Facebook and Google, with the hope of democratizing the internet.

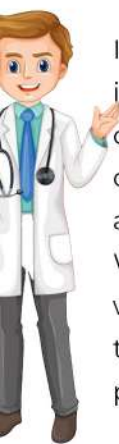
AI and blockchain will be the kings of Web3. Anyone can participate in the network because no one authority figure controls it, and because it's decentralized, the entire network can never go down.

While Web2 was mainly focused on the front-end, Web3 will be more concerned with upgrading the back-end of the web.



In Web3, a decentralized Internet powered by the recording-keeping technology blockchain is described as the next phase of the Internet. Web three is a new web standard that will completely change how we interact online. With web three, web users will have complete control over their data and use web apps without being forced to sign in or go through annoying ads.

Web3 is not just about your data; it also allows for better security and privacy. Your web data will be much more secure with web three, as web3 uses blockchain technology. This means that your data cannot be read or changed without your permission. This web3 was made possible by Ethereum, which was the first web3 compatible platform.



Sridevi Sakhamuri
Assistant Professor,
Department of ECM



కవిత్వం

ప్రతిరోత్తి వెలుగు అవుతోంది దూరం
దూరం అయిన వెలుగు కోసం విచారం
అడగకుండా వచ్చిన దూరం మీద కోపం
రోత్తి అంతా దూరంకై ఆలోచనలతో సమరం
జరిగిన రణం ఏమాత్రం ఇవ్వని పరిష్కారం
మరలా వచ్చే వెలుగుకి ఎందుకు ఈ పోరాటం
వచ్చిన క్షణం ఉండదు ఏ ఒక్క భావం
మరలా కలిసింది అనే భావనతో ఆనందం
ఆ ఆనంద పొరలలో మరలా మరిచే నిజం
వచ్చిన వెలుగు ఉంటుందో అనే అనుమానం...!

~Naren ❤️



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Date: 08-06-2022

NOTIFICATION

It is hereby notified that the Vice Chancellor, on the recommendations of the examiners appointed to adjudicate the Ph.D. thesis entitled "DEVELOPMENT OF LOW POWER AND LOW COST TARGET SYSTEM FOR EMBEDDED AND IOT APPLICATIONS" submitted by **KOMMURI KRISHNA VENI, Research Scholar**, Koneru Lakshmaiah Education Foundation (Deemed to be University) with **Registered Number 163040052**, **Department of Electronics and Communication Engineering**, under the supervision of Dr.K.Venkata Ratnam, Assoc. Professor, Dept. of ECM, KLEF for the award of Ph.D. Degree, and on consideration of the report submitted by the Examiners of the VIVA-VOCE Board, has ordered that **KOMMURI KRISHNA VENI** be declared qualified for the award of the **Degree of Doctor of Philosophy (Ph.D)** in "Electronics and Communication Engineering" in the "Faculty of Engineering" of this University.

(Dr.A.Jagadeesh)

I/c. Registrar

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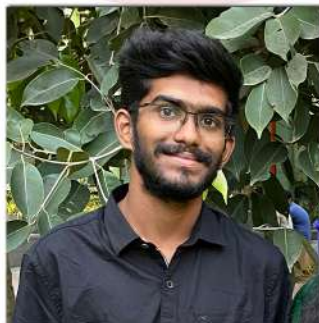
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