(DEEMED TO BE UNIVERSITY)

CATEGORY 1 UNIVERSITY BY MHRD, Govt. of India

KL ACCREDITED BY NAAC WITH A++ GRADE

nirf 2024 NATIONAL INSTITUTIONAL RANKING FRAMEWORK

RANKED 22 AMONG ALL UNIVERSITIES

45 YEARS OF EDUCATIONAL LEADERSHIP

DEPARTMENT OF BIOTECHNOLOGY

GENOMICS AND PROTEOMICS RESEARCH CENTRE

GENOMICS & PROTEOMICS RESEARCH CENTRE

ABOUT THE RESEARCH CENTRE

Through state-of-the-art technologies and interdisciplinary approaches, we aim to unlock the mysteries of genetic and proteomic networks that drive biological function and disease.

VISION

The vision is to establish a pioneering center for genomics and proteomics research, dedicated to advancing precision medicine, unraveling complex biological systems, and driving innovative solutions for disease diagnosis and therapy through cutting-edge technology and collaboration.

MISSION

- To develop cutting-edge applied mathematics models, methods, and strategies to solve complex issues in engineering, biology, data science, and finance.
- To promote applied mathematics' critical role in societal growth and technical advancement through publications, conferences, and educational outreach.

OBJECTIVES

1. Understanding genetic, and epigenetics aspects of various cancers
2. In-depth investigation of proteomic modifications in brain, breast, and Blood cancers
3. Molecular aspects of cancer disease diagnosis via miR-lncRNA expression in patient samples
4. Methods to investigate the microbial pathogenesis by proteomics and genomics approach.

Key Research Areas

1. Cancer metabolism-Epigenetics
2. In silico studies for COVID-19
3. Multi-epitope-based vaccine Design
4. RNA motifs-G Quadruplexes
5. Transcription-Protein Studies
6. Actinomycetes-cancer biology-tissue engineering
7. Life Sciences-Biotechnology
8. Proteomics-Cancer biology-Toxinology-Neuroscience
9. Alzheimer's and other neurodegenerative diseases

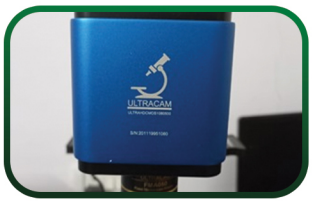
EQUIPMENT DETAILS

CO2 Incubator

Application
In cell culture laboratories to maintain an optimal environment for mammalian cells

Model Name:
BLM EQUIPMENT

Inverted Microscope



Application
To observe cell cultures, tissues, and other samples from below

Model Name:
SVR Equipment

Biological Safety Cabinet

Application
Provide a contaminant-free environment for handling hazardous biological materials

Model Name:
BLM EQUIPMENT

Gel Illuminator

Application
To visualize DNA, RNA, or protein samples separated by gel electrophoresis

Model Name:
UVITEC Cambridge

EQUIPMENT DETAILS

UV Illuminator

Application
To visualize DNA, RNA, or proteins in a gel stained with fluorescent dyes.

Polymerase Chain Reaction

Application
Amplify specific DNA sequences, making millions of copies from a small initial sample

Model Name:
Wee 32

Blotter

Application
Transferring DNA & RNA or proteins from a gel onto a membrane

Model Name:
Thermo Fisher Scientific

TEAM MEMBERS

Dr. M. Janaki Ramaiah
Center Head, Professor, BT

Dr K Shrinivasulu,
Professor, BT

Dr. K. S. Jagannatha Rao
Professor, Pro-Chancellor, BT

Dr. Burra VLS Prasad
Professor, BT

Dr. V Praveen Kumar
Professor, HOD, BT

Dr. Nadeem Siddiqui
Associate Professor, BT

Dr. Chanda Chandrashekhar
Assistant Professor, Alt. HOD, BT

TEAM MEMBERS

Dr. Ragini Singh
Associate Professor, BT

Dr. Sarada P. Mallick
Assistant Professor, BT

Dr. B. Srinivas
Associate Professor, BT

Dr. Pinnamaneni Rajasekhar
Assistant Professor, BT

Dr. Y. V. Rajesh
Assistant Professor, BT

Dr. T Uday
Assistant Professor, BT

OUR COLLABORATORS

Dr. Murali Hegde
Houston Methodist Research Institute, USA

Dr. Stanley appel
Houston Methodist Research Institute USA

Dr. Kommagani
Baylor college of Medicine TEXAS, USA

Dr. B. Vijaya Lakshmi
Director, Institute of Genetics & Hospital for Genetic Diseases. Hyderabad

Dr. Ashok Barnwal
Professor
AIIMS, Bhopal

Dr. Vijay Kumar Kutala
Additional Professor NIIMS, Hyderabad

Dr. Anjana Devi
CSIR-IICT, Hyderabad

Dr. Sanath Kumar
Central Institute of Fisheries Education (CIFE) Mumbai

Prof. Ramakrishna Kancha
CPMB, Osmania University, Hyderabad

Dr. Rajesh Jha
PhD, Principal Scientist
Central Drug Research Institute Lucknow

Dr. S M Naushad
CSO, Yoda life line diagnostics Hyderabad

SCHOLARS INFORMATION

Post Doctoral Fellowship
Dr. Sk. Chand Basha

Ph.D. Awardees
Dr. B. Chandrashekhar
Dr. O. Rajath
Dr. B. Sudha Kalyani

SCHOLARS

Full-Time	Part-Time
Sahiti Chamarthy	Ms. Leela Talluri
Mangal Kadam	Ms. Abha Rashmi
Partha Sarathi Sahoo	Z Rewaria Vinay
Chandrika Gummadi	Nayab Rasool Dudekula
B Sudha Chowdary	
Emani Lakshmi Sowmya	
P Anand Murali	

HIGHLIGHTS OF RESEARCH CENTRE

1. Expertise faculty in Genomics and Proteomics, statistical analysis of genes, presence, and functions in various physiological processes.
2. Expertise in transcription, translation, G quadruplexes, metabolism, in silico designing, and molecular mechanisms of various health conditions.
3. Expertise in understanding the metabolism and epigenetics of various diseases.
4. An advanced protein data bank and software for analyzing and understanding the interactions between various molecules, genes, RNA, DNA, and proteins.
5. Executed many sponsored research projects.
6. 3 Ph.D. awarded, 7 patents are published and more than 200 SCI papers have been published in genomics, proteomics, and transcription research areas.
7. State, National, and international research collaborations with AIIMS, SAS Solutions, Hetero Drugs, Japan, China, Saudi Arabia, Maharashtra, USA, IICT Hyderabad, and Orissa, HMRI, SGPGI, Texas, CDRI, France.

PUBLICATION ANALYTICS (SDGs)

Publications: 300+
SDG goals- 1,2,3,8,9

- **SDG 1 & 2:** Genomics and proteomics research improves food security by developing drought-resistant crops, enhancing nutritional value, and supporting sustainable agriculture, indirectly alleviating poverty.
- **SDG 3:** Advances in precision medicine and biomarker identification enable early disease detection, personalized therapies, and cost-effective healthcare solutions, enhancing health and well-being.
- **SDG 8:** These research centers drive economic growth by creating jobs in biotech and healthcare sectors, fostering innovation, and supporting biotech startups.
- **SDG 9:** Establishing advanced research infrastructure promotes scientific innovation, industry collaborations, and the development of biotechnological tools for societal benefit.

PROJECTS – SPONSORED, AGENCIES

NAME(S) OF THE MEMBERS	TITLE OF THE PROJECT	AMOUNT SANCTIONED (IN RS.)	FUNDING AGENCY
Dr. Sarada Prasanna Mallick	Sustainability Assessment of Food Packaging	20,000	Basil Pizzeria Pvt. Ltd.
Dr. Yella Venkata Rajesh	Genomic Analysis of Drug Resistance in Infectious Diseases	21,000	Aquara Infotech
Dr. Nadeem Siddiqui	Analysis of Finite Element in Computational Biomechanics	18,000	S A S Solutions
Dr. Burra V L S Prasad	Design and Develop a statistical scoring system against a library of Multi-Epitope based Peptide (MEBP) vaccine constructs to identify best vaccine candidates	20,36,000	DST/NSM
Dr. M Janaki Ramaiah	Poultry Feed Optimization for Cost Reduction	35,000	Genesis Biosciences IBRC
Dr. M Janaki Ramaiah	Assessment of Green Energy Options for Energy Efficiency	24,000	Rock Heights Infra Pvt. Ltd.
Dr. Burra Venkata Laxmi Siva Prasad	Characterization of semiconductor organic compounds from waste computer hardware	24,000	J P Engineering Corporation
Dr. Nadeem Siddiqui	Development and Characterization of Chitosan Scaffold for Bone Tissue Engineering	25,000	R. V. Labs
Dr. Yella Venkata Rajesh	AI-based Community Health Education and Disease Prevention System	24,000	Aquara Infotech

PROJECTS – SPONSORED, AGENCIES

NAME(S) OF THE MEMBERS	TITLE OF THE PROJECT	AMOUNT SANCTIONED (IN RS.)	FUNDING AGENCY
Dr. Yella Venkata Rajesh	Delineation of DNA structural features of various promoter categories in eukaryotes in an in-silico approach	11,84,000	SERB
Dr. Nadeem Siddiqui	Study the corrosion of iron in microbial environment	19,000	R G Industries
Dr. Yella Venkata Rajesh	Waste Reduction and Recycling Strategies for Residential Communities	16,000	Akkineni Developers
Dr. Y.V. Rajesh	Delineation of DNA structural features of various promoter categories in eukaryotes an in silico approach	2,50,000	SERB
Dr. B V L S Prasad	Structure determination and analysis of native, hybrid, mutant mycobacterial RecA and c-di-AMP complexes to develop novel allosteric inhibitors against Mycobacterium tuberculosis	14,57,000	SERB-CRG
Dr. Sarada Prasanna Mallick	Sustainable Textile Dyeing Processes Optimization	23,000	Handlooms India
Dr. Nadeem Siddiqui	Optimization and validation of method for computational biology	22,000	S A S Solutions
Dr. Venkata Rajesh Yella	Delineation of DNA structural features of various promoter categories in eukaryotes an in-silico approach	4,00,000	SERB
Dr. Burra V L S Prasad	Structure determination and analysis of native, hybrid, mutant mycobacterial RecA and c-di-AMP complexes to develop novel allosteric inhibitors against Mycobacterium tuberculosis	10,00,000	SERB-CRG

PROJECTS – SPONSORED, AGENCIES

NAME(S) OF THE MEMBERS	TITLE OF THE PROJECT	AMOUNT SANCTIONED (IN RS.)	FUNDING AGENCY
Dr Burra V L S Prasad	Drug designing against Tuberculosis targeting a novel protein from M. Tuberculosis - N2G966 rRNA methyltransferase (RsMD)	3,45,000	ICMR
Dr. Sarada Prasanna Mallick	Design and evaluation of Gelatin and Boiled Starch based composite hydrogels for energy applications	24,000	Jayram Industries India Pvt Ltd
Dr. Burra V L S Prasad	Structure determination and analysis of native, hybrid, mutant mycobacterial RecA and c-di-AMP complexes to develop novel allosteric inhibitors against Mycobacterium tuberculosis	3,00,000	SERB-CRG
Dr. Sarada Prasanna Mallick	Development of moisture monitoring system and its optimization and validation	24,000	Aquara Infotech
Dr. Yella Venkata Rajesh	Development of an Eco-Friendly Cleaning Agent	24,000	Sri Azhagu Murugan Home Appliances
Dr. Bandaru Srinivas	Sustainable Agriculture Solutions for Smallholder Farmers	24,000	Hari Sai Enterprises
Dr. Nadeem Siddiqui	Community-based Waste Management and Recycling Initiative	24,000	Aquara Infotech
Dr. V. Praveen Kumar	Identification and Characterization of Sexually Dimorphic micro RNAs (miRNAs) associated with X chromosome-linked DDX3 gene	47 Lakhs	SERB

PATENTS

1. US:10/873,923 (BioBhasha - OO Biological Application Framework)
2. US:10/579,171 (MACS - Macromolecular Architecture Component System
3. Investigation of IoT-based life care autonomous system- 202041050552
4. Novel Process for the Production of Environmentally Friendly Bio-based Fuels from Biomass Feedstocks-202441023031
5. Isolation, Characterization, and Multifaceted Bioactivity Assessment of Itaconic Acid from *Aspergillus niveus*: Antimicrobial, Antioxidant, and Cytotoxic Perspectives: 202441055539
6. Bioremediation of Textile Dye Effluent Using Magnesium Oxide Nanoparticles in Alginate Beads: *Plectranthus amboinicus*-Mediated Synthesis: 202441066535
7. Isolation and Characterization of Bioactive Compounds from Freshwater Crab: 202441095964

TOP 10 PUBLICATIONS

- Basha SK, C., & Mekala, J. R. (2024). Computational Docking Analysis of APOE-TREM2 Crosstalk with Therapeutic implications in Alzheimer's disease (AD). Alzheimer's & Dementia, 20, e084634.
- Singh, Ragini & Zhang, Wen & Liu, Xuecheng & Zhang, Bingyuan & Kumar, Santosh. (2024). WaveFlex Biosensor: MXene-Immobilized W-shaped Fiber-Based LSPR sensor for highly selective tyramine detection. Optics & Laser Technology. 171. 110357.
- Yella, V. R., Kumar, A., & Bansal, M. (2018). Identification of putative promoters in 48 eukaryotic genomes on the basis of DNA-free energy. Scientific reports, 8(1), 4520.
- Mallick, S. P., Panda, S. P., Gayatri, A., Kunaal, Y., Naresh, C., Suman, D. K., ... & Singh, B. N. (2021). Chitosan oligosaccharide based hydrogel: An insight into the mechanical, drug delivery, and antimicrobial studies. Biointerface Res. Appl. Chem, 11, 10293-10300.
- Bandaru, Srinivas & Tsuji, Mika & Shimizu, Yurika & Usami, Kaya & Lee, Suni & Takei, Naoko & Yoshitome, Kei & Nishimura, Yasumitsu & Otsuki, Takemi & Ito, Tatsuo. (2020). Structure-based design of gRNA for Cas13. Scientific Reports. 10. 10.1038/s41598-020-68459-4.
- Karnik, K. S., Sarkate, A. P., Lokwani, D. K., Narula, I. S., Burra, P. V., & Wakte, P. S. (2021). Development of triple mutant T790M/C797S allosteric EGFR inhibitors: a computational approach. Journal of Biomolecular Structure and Dynamics, 39(15), 5376-5398.
- Siddiqui, N., Kishori, B., Rao, S., Anjum, M., Hemanth, V., Das, S., & Jabbari, E. (2021). Electropsun polycaprolactone fibres in bone tissue engineering: a review. Molecular Biotechnology, 63, 363-388.
- Chanda, C., Sarkar, A., Sistla, S., & Chakrabarty, D. (2013). Anti-platelet activity of a three-finger toxin (3FTx) from Indian monocled cobra (Naja kaouthia) venom. Biochemical and biophysical research communications, 441(3), 550-554.
- Emani, L. S., Rao, J. K., Hegde, M. L., & Kosagisharaf, J. R. (2022, August). Studies on the role of B to Z DNA conformational transition in neuronal cell death: relevance to neurodegenerative disorders. In JOURNAL OF NEUROCHEMISTRY (Vol. 162, pp. 98-98). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
- Pinnamaneni, R. (2017). Nutritional and medicinal value of papaya (Carica papaya Linn.). World journal of pharmacy and pharmaceutical sciences, 6(8), 2559-2578.
- Bodiga, S., Vemuri, P. K., & Bodiga, V. L. (2018). Low Ctr1p, due to lack of Sco1p results in lowered cisplatin uptake and mediates insensitivity of rho0 yeast to cisplatin. Journal of Inorganic Biochemistry, 187, 14-24.
- Botlagunta, M., Kamma, S., Mallampalli, B., & Kambila, V. K. (2018). Adsorbent, dielectric, and discharge characteristic properties of banana agricultural waste. Biointerface Research in Applied Chemistry, 8(3), 3335-3338.

LIST OF PUBLICATIONS

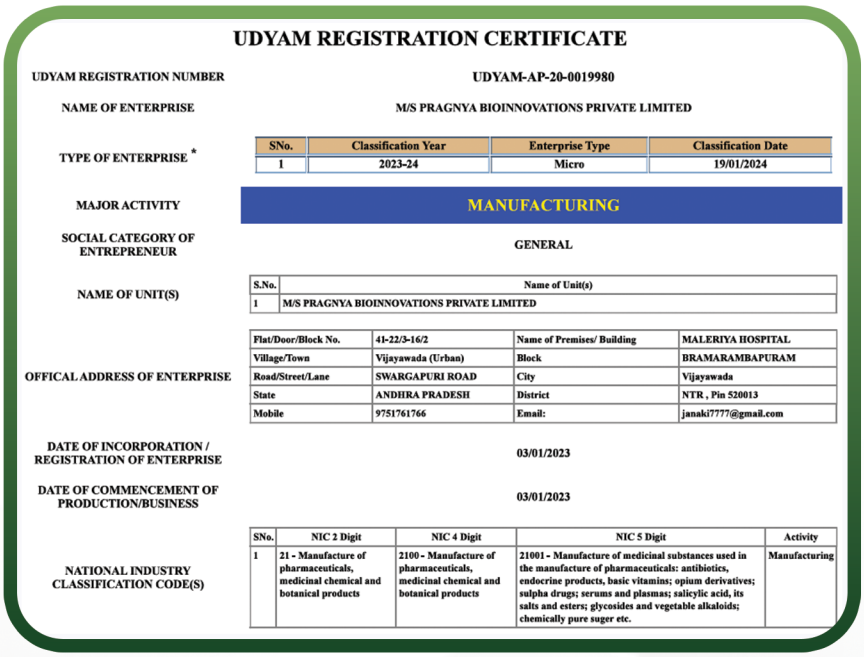
- Sahiti and Janaki Ramaiah (2023). Functional Importance Of Glucose Transporters, Chromatin Epigenetic Factors In Glioblastoma Multiforme (GBM): Possible Therapeutics. Metab Brain Dis 38(5):1441-1469.
- Naushad SM, Ramaiah MJ (2023). Mechanistic insights into TLR7-mediated clinical outcome in COVID-19 and the potential modulatory role of N-acetylcysteine. Scientific Reports. revised
- Yella, V.R., Vanaja, A. "Computational analysis on the dissemination of non-B DNA structural motifs in promoter regions of 1180 cellular genomes." Biochimie 214 (2023): 101-111.
- Mallick, S.P., Suman, D.K., Singh, B.N., Srivastava, P., Siddiqui, N., Yella, V.R. "Strategies toward development of biodegradable hydrogels for biomedical applications." Polymer-Plastics Technology and Materials 59.9 (2020): 911-927.
- Mallick, S., Beyene, Z., Suman, D. K., Madhual, A., Singh, B. N., & Srivastava, P. (2019). Strategies towards orthopaedic tissue engineered graft generation: current scenario and application. Biotechnology and Bioprocess Engineering, 24(6), 854-869.
- Dofe, V. S., Sarkate, A. P., Tiwari, S. V., Lokwani, D. K., Karnik, K. S., Kale, I. A., ... & Burra, P. V. (2020). Ultrasound assisted synthesis of tetrazole based pyrazolines and isoxazolines as potent anticancer agents via inhibition of tubulin polymerization. Bioorganic & Medicinal Chemistry Letters, 30(22), 127592.
- Siddiqui, N., Kishori, B., Rao, S., Anjum, M., Hemanth, V., Das, S., & Jabbari, E. (2021). Electropsun polycaprolactone fibres in bone tissue engineering: a review. Molecular Biotechnology, 63, 363-388.
- Singh, Ragini & Zhang, Wen & Liu, Xuecheng & Zhang, Bingyuan & Kumar, Santosh. (2024). WaveFlex Biosensor: MXene-Immobilized W-shaped Fiber-Based LSPR sensor for highly selective tyramine detection. Optics & Laser Technology. 171. 110357. 10.1016/j.optlastec.2023.110357.
- Zhang, Qi & Gu, Chaofan & Singh, Ragini & Zhang, Bingyuan & Kumar, Santosh. (2024). Development of WaveFlex Biosensor for Rapid Detection of Glyphosate Herbicide in Real Agricultural Products. IEEE Sensors Journal. PP. 1-1. 10.1109/JSEN.2024.3380601.
- Nayarisseri, A., Bandaru, S., Khan, A., Sharma, K., Bhardwaj, A., Kaur, M., Ghosh, D., Chopra, I., Panicker, A., Kumar, A., Saravanan, P., Belapurkar, P., Mendonça Junior, F. J. B., & Singh, S. K. (2024). Epigenetic dysregulation in cancers by isocitrate dehydrogenase 2 (IDH2). Advances in protein chemistry and structural biology, 141, 223–253. https://doi.org/10.1016/bs.apcsb.2023.12.012

LIST OF PUBLICATIONS

- Bandaru, Srinivas & Tsuji, Mika & Shimizu, Yurika & Usami, Kaya & Lee, Suni & Takei, Naoko & Yoshitome, Kei & Nishimura, Yasumitsu & Otsuki, Takemi & Ito, Tatsuo. (2020). Structure-based design of gRNA for Cas13. Scientific Reports. 10. 10.1038/s41598-020-68459-4.
- Sekhar, C. C., & Chakrabarty, D. (2012). 76. An Antiplatelet Peptide, Lahirin, from Indian Monocled Cobra Venom. Toxicon, 2(60), 132-133.
- Sekhar, C. C., & Chakrabarty, D. (2011). Fibrinogenolytic toxin from Indian monocled cobra (Naja kaouthia) venom. Journal of biosciences, 36(2), 355-361.
- González, Y., Mojica-Flores, R., Moreno-Labrador, D., Cubilla-Rios, L., Rao, K. J., Fernández, P. L., ... & Lakey-Beitia, J. (2023). Polyphenols with Anti-Inflammatory Properties: Synthesis and Biological Activity of Novel Curcumin Derivatives. International Journal of Molecular Sciences, 24(4), 3691.
- Li, C., Rao, J. K., Emani, L. S., Kosagisharaf, R. J., & Hegde, M. L. (2022). The self-renewal and reprogramming of cancer stem cells and their crosstalk with the immune microenvironment. Frontiers in Cell and Developmental Biology, 10, 1024761.
- Pinnamaneni, R., Kalidas, P., & Rao, K. S. (2010). Cloning and expression of Bbchit1 gene of Beauveria bassiana. Open Entomol J, 4(1), 30-35.
- Tiwari, A., Hannan, S. A., Pinnamaneni, R., Al-Ansari, A. R. M., El-Ebiary, Y. A. B., Prema, S., & Manikandan, R. (2023). Optimized ensemble of hybrid rnn-gan models for accurate and automated lung tumour detection from ct images. International Journal of Advanced Computer Science and Applications, 14(7).
- Durgam, M. K., Bodiga, V. L., Vemuri, P. K., Aenugu, V. R., & Bodiga, S. (2023). 2-hydroxy-4-methoxy benzaldehyde from Hemidesmus indicus root extract suppresses toll-like receptor2-mediated migration and invasive mechanisms in rheumatoid arthritis. Journal of Herbal Medicine, 42, 100820.
- Bodiga, V. L., Vemuri, P. K., Kudle, M. R., & Bodiga, S. (2021). Zinc ionophores isolated from Terminalia bellirica fruit rind extract protect against cardiomyocyte hypoxia/reoxygenation injury. Bioorganic & Medicinal Chemistry, 46, 116394.
- Bala, S., Garg, D., Sridhar, K., Inbaraj, B. S., Singh, R., Kamma, S., ... & Sharma, M. (2023). Transformation of agro-waste into value-added bioproducts and bioactive compounds: Micro/nanoformulations and application in the agri-food-pharma sector. Bioengineering, 10(2), 152.
- Dadhaneeya, H., Kesavan, R. K., Inbaraj, B. S., Sharma, M., Kamma, S., Nayak, P. K., & Sridhar, K. (2023). Impact of different drying methods on the phenolic composition, in vitro antioxidant activity, and quality attributes of dragon fruit slices and pulp. Foods, 12(7), 1387.

ACHIEVEMENTS

- A national conference sponsored by ANRF-SERB titled " Recent Trends in Epigenetics in Cancer Diagnosis & Therapy"
- Dr. M. Janaki Ramaiah is an editor for journals Cancer Research and Treatment, Advance Research in Pharmacogenomics, BMC Genomics, Intl. Journal of Genetics and Genomics, Current Indian Science, International research for engineering &management etc. He received fellowships from ICMR-DHR, DBT-CTEP, INC etc.
- An international conference sponsored by DST-SERB on Current Sustainable Agricultural, Biotechnological, Nutritional, and Pharmaceutical Interventions to Combat Global Challenges was organized from 19th to 21st December 2023.
- Symposium cum Hands-on workshop on in silico MEBP Vaccine design sponsored by DST-NSM was organized on 10th-12th, May 2023.
- Conducted AICTE-Sponsored ATAL FDP on Cutting Edge Biotechnology in Precision Medicine from 9th-14th December 2024.



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER	UDYAM-AP-20-0019980
NAME OF ENTERPRISE	M/S PRAGNYA BIOINNOVATIONS PRIVATE LIMITED

TYPE OF ENTERPRISE *

SNo.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	19/01/2024

MAJOR ACTIVITY: MANUFACTURING

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	M/S PRAGNYA BIOINNOVATIONS PRIVATE LIMITED

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	41-22/3-16/2	Name of Premises/ Building	MALERIYA HOSPITAL
Village/Town	Vijayawada (Urban)	Block	BRAMARAMBAPURAM
Road/Street/Lane	SWARGAPURI ROAD	City	Vijayawada
State	ANDHRA PRADESH	District	NTR , Pin 520013
Mobile	9751761766	Email:	janaki7777@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 03/01/2023

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 03/01/2023

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	21 - Manufacture of pharmaceuticals, medicinal chemical and botanical products	2100 - Manufacture of pharmaceuticals, medicinal chemical and botanical products	21001 - Manufacture of medicinal substances used in the manufacture of pharmaceuticals: antibiotics, endocrine products, basic vitamins; opium derivatives; sulpha drugs; serums and plasmas; salicylic acid, its salts and esters; glycosides and vegetable alkaloids; chemically pure suger etc.	Manufacturing

Dr. M. Janaki Ramaiah has his startup Pragnya Bioinnovations Pvt. Ltd. 21001 - Manufacture of medicinal substances used in the manufacture of pharmaceuticals: antibiotics, endocrine products, basic vitamins; opium derivatives; sulpha drugs; serums and plasmas; salicylic acid, its salts and esters; glycosides and vegetable alkaloids; chemically pure suger etc.

ACHIEVEMENTS

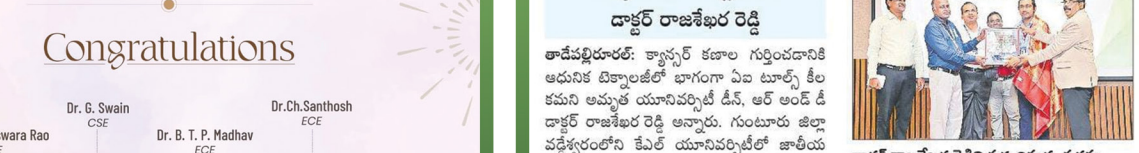
క్యాన్సర్ కణాల గుర్తింపులో కృత్రిమ మేధ టూల్స్ కీలకం

అమృత యూనివర్సిటీ డీన్ డాక్టర్ రాజశేఖర రెడ్డి

తాడేపల్లిగూడెం: క్యాన్సర్ కణాల గుర్తించడానికి ఆధునిక టెక్నాలజీలో భాగంగా ఏఐ టూల్స్ కీల కమని అమృత యూనివర్సిటీ డీన్, ఆర్ అండ్ డీ డాక్టర్ రాజశేఖర రెడ్డి అన్నారు. గుంటూరు జిల్లా వడ్డేశ్వరంలోని కేఎల్ యూనివర్సిటీలో జాతీయ స్థాయి ట్రెండ్స్ ఇన్ థేపి జెనెటిక్స్ క్యాన్సర్ డయాగ్నోసిస్, థెరపి ముగింపు సదస్సు బుధవారం నిర్వహించారు. ఆయన మాట్లాడుతూ ముందుగానే క్యాన్సర్‌ను ఎలాగుర్తించాలి అనే అంశంపై విద్యార్థులకు అవగాహన కల్పించారు.

సదస్సు కన్వీనర్ డాక్టర్ ఎం.జానకీ రామయ క్యాన్సర్ కణాలు మానవ శరీరంలోకి ప్రవేశించిన అనంతరం ఏ విధంగా జన్యుపరమైన మార్పులు చెందుతాయి, ఆహార నియమాలలో మార్పుల వలన, జీవన శైలిలో చోటు చేసుకుంటున్న మార్పుల వలన మనిషిలో ఉండే జీవకణాలు ఏ విధంగా మార్పులకు గురి అవుతున్నాయి అనే అంశాలను వివరించారు. క్యాన్సర్ కారకాలను ముందుగా గుర్తిస్తే క్యాన్సర్ మరణాల రేటును గణనీయంగా తగ్గించవచ్చునని అన్నారు.

అనంతరం క్యాన్సర్ కణాలపై చేసిన పలు రకాల పరిశోధనా పత్రాలను ప్రదర్శించారు. పోస్టర్ల ప్రదర్శనలో అత్యంత ప్రతిభ కనబర్చిన వారికి ఆన్‌లైన్, ఆఫ్‌లైన్ బహుమతులను అందజేశారు. ప్రథమ బహుమతిని విజ్ఞాన్ యూనివర్సిటీకి చెందిన మహిమా భరద్వాజ, ద్వితీయ బహుమతిని నిర్మల ఫార్మసీ కళాశాలకు చెందిన షేక్ ఆషా బేగం, కేఎల్ యూకు చెందిన జి.శ్రావ్య, అమృత తృతీయ బహుమతి గెలుచుకున్నారు. సదస్సుకు డాక్టర్ ఎం.జానకీ రామయ్య కన్వీనర్‌గా వ్యవహరించగా, బయో టెక్నాలజీ విభాగాధిపతి డాక్టర్ ప్రవీణ్ కుమార్ కో-కన్వీనర్‌గా, కోటేశ్వరరెడ్డి, జ్ఞాన శేఖరన్ కోశాధికారులుగా వ్యవహరించారు. కార్యక్రమంలో వర్సిటీ వైస్ చాన్సలర్ డాక్టర్ జి.పార్థసారథి వర్మ, ప్రో చాన్సలర్లు డాక్టర్ కె.ఎస్.జగన్నాథరావు, డాక్టర్ ఏవీఎస్ ప్రసాద్, అకడమిక్స్ డాక్టర్ కె.రాజశేఖరావు, డాక్టర్ ఎన్.వెంకట్‌రామ్, రిజిస్ట్రార్ డాక్టర్ కె.సుబ్బారావు, విద్యార్థి సంక్షేమ విభాగం డీన్ డాక్టర్ కె.ఆర్.ఎస్. ప్రసాద్ పాల్గొన్నారు.



డాక్టర్ రాజశేఖర రెడ్డిని సత్కరిస్తున్న సదస్సు కన్వీనర్ డాక్టర్ ఎం.జానకీ రామయ్య, జ్ఞాన శేఖర్

A National Conference sponsored by ANRF-SERB titled " Trends in Epigenetics in Cancer Diagnosis & Therapy" on 27th & 28th August, 2024.

ACHIEVEMENTS

AICTE-Sponsored ATAL FDP on Cutting Edge Biotechnology in Precision Medicine from 9th-14th December 2024.

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