

**PROFESSIONAL EXPERIENCE**

- Working as CEO & Research Head in Ciencia Labs LLP , Hyderabad from March 2023 to till date.
- Working as Research Head in Ciencia lifesciences, Hyderabad from March 2023 to till date.
- Worked as Assistant Professor in JNIAS, Hyderabad from June 2012 to February 2016.
- Worked for JNTU, Hyderabad as Guest faculty from March 2011 to April 2012.
- Worked for Indo-American cancer hospital and research center, Hyderabad as Research associate from April 2007 to April 2009.
- Worked for Mahavir Hospital and research center, Hyderabad as Research associate from January 2006 to January 2007.
- Worked as **Junior Research Associate (Informatics) G.V.K. Biosciences Pvt. Ltd.,** Hyderabad, India – from November **2002 – 2005** December.
- *Worked as guest faculty teaching for Biochemistry to GNM in Indo-American cancer hospital and research center, Hyderabad.*

**Patents:**

S.No	Title of the Patent	Authors	Publication Date	Status	Application Number
01	Novel process for the preparation of substituted 1-phenylcyclopropane carboxamide derivatives	Rambabu Gundla, Naresh Kumar Katari, Panasa Mahesh, Prashanthi Yarasani, Lavleen Kumar Gupta, Laxmi Kumari Nagarapu, <b>Sabitha Yadam</b>	2022	Published	202241054535 A
02	Novel substituted 1-phenylcyclopropane	Rambabu Gundla, Naresh Kumar Katari, Panasa	2022	Published	202241054580 A

	carboxamide derivatives	Mahesh, Prashanthi Yarasani, Lavleen Kumar Gupta, Laxmi Kumari Nagarapu, <b>Sabitha Yadam</b>			
0.3	Novel pyrazolo[3,4- b] pyridine derivatives having anti-bacterial activity	Rambabu Gundla, Naresh Kumar Katari, Narsimharao Bandaru, Balakrishna Kolli, Venkanna Banothu, Sabitha Yadam, Laxmi Kumari Nagarapu	2022	Published	20224106422 2 A
04	Novel process for the preparation of substituted spirochromanone derivatives	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani	2022	Published	20224107002 5A
05	Novel substituted spiro-chromanone compounds as anticancer agents	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani	2022	Published	20224106956 7A
06	Synthetic substituted spirochromane compounds and derivatives preparation method and application there of	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani, Rajesh babu Karanki	2023	Published	20234101078 4A
07	A method for preparation of 1,2,3 triazole incorporated 1,3, 4-oxidaizole triazine derivatives with anticancer activity	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani, Kalyani	2023	Published	IN202341033 384
8	Synthesis and characterization and a glucosidase inhibitory evaluation of novel N-(2-cyclopentyl 2-phenyl acetyl) cinnamohydrazide derivatives : invitro and insilico	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Sabitha Yadam, Suresh Patagani, Kalyani	2024	Published	IN202441100 613
9	Novel and efficient synthesis of 5-chloro-6-methoxy-3-(2-1-(aryl)1-1,2,3 triazole-4-	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha	2024	Published	IN202441100 614

	yl)methoxy)ethyl)Benz o[D] isooxazole derivatives as new alpha glucosidase inhibitors	Yadam, Suresh Patagani, Kalyani			
10	Design and synthesis of alpha glycosidase inhibitors for 1-benzyl- 4-oxa-1,9diazaspiro [5,5] undecan -2-one as antidiabetic agent	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani	2025	Submitted	IN202541000 861
11	8-piperzin-1yl) 3- (piperdin 3yl) imidazole [1.5-A] pyrazine and amide derivatives alpha glucose imhibitors	Rambabu Gundla, Viswanath Das, Naresh Kumar Katari, Anil Kumar Kadari, Sabitha Yadam, Suresh Patagani	2025	Submitted	IN202541000 862

### NCBI-Deposits:

Bacillus ginsengisoli strain kotra22 16S ribosomal RNA gene, partial sequence; GenBank:  
MN818583.1. Sabitha.Y

### PUBLICATIONS

- In vitro antioxidant activity, antidiabetic activity and in silico docking studies of 3,3',4',5,7-pentahydroxyflavone and stigmasta-5,22-dien-3 $\beta$ -ol isolated from aerial parts of Euphorbia milii. Des mouli Pradyutha A.Ch, Sabitha Yadam & V. Umamaheswara Rao, Natural Product Research. 2024.
- Photo-Remediation, Antioxidant, Antibacterial And Antifungal Activity Of Nyctanthes Arbor Tristis And Terminalia Chebula Silver Nanoparticles Dr. Suchitra Naidu, Assistant Professor, Loyola academy, Hyderabad Aishwariya Jena, Ciencia Life Sciences, Hyderabad Dr. Y. Sabitha, Research Head, Ciencia Labs, Hyderabad
- Isolation of Cholesterol-Reducing Potential Probiotic Bacterial Strains from Home-Made Fermented Foods Dr. Suchitra Naidu<sup>1</sup>, Dr. Y. Sabitha<sup>2</sup> <sup>1</sup>Assistant Professor, Loyola academy, Hyderabad <sup>2</sup>Research Head, Ciencia Labs, Hyderabad
- Phytoremediation, antioxidant, antimicrobial activity of callisia repens silver nanoparticles. Praneetha nama, Dr.T.Suchitra Naidu, **Dr. Sabitha Y\***. Advances in natural sciences nanoscience and nanotechnology .Asian Journal of Biological and Life Sciences, Vol 12, Issue 2, May-Aug, 2023

- Comet assay: A straight way to evaluate DNA damage" to Indian Research Journal of Genetics and Biotechnology. Dr. **Sabitha, Y.**, & Fatima, S. 21st Century Pathology, Volume 3 (2): 145.
- A Curated Database: The 3 and 2 Dimensional Structures and Pharmacological Activities of Anti-inflammatory Phytochemicals in Plants". Rikvitha, **Dr. Sabitha.Y.** Kanchana. Indian Journal of Natural Sciences, Vol.13 / Issue 75 / December / 2022. ISSN -0976 – 0997
- Evaluatoin of genotoxicity of ricinus communis (leaves and seeds) by their silver nanoparticles using comet assay. **Sabitha, Y.**, & Fatima, S. (2022). *Journal of Advanced Scientific Research*, 13(05), 146-150.
- Screening of Inhibitors against Multidrug Resistant Protein 1 through Molecular Docking Asian Journal of Biological and Life Sciences,2021,10,2,400-406. Shirolu Dabbikar, Dipti Soni Jaipurkar, **Sabitha Y\***.
- Molecular docking and dynamic simulations of benzimidazoles with beta-tubulins. Bioinformation 2021 31;17(3):404-412. Epub 2021 Mar 31. Chennu Maruthi Malya Prasada Rao Narapusetty Naidu Jhansi Priya K Poorna Chandra Rao Kapu Ranjith Singarapalle Shobha Bodepudi Sudheer Chowdary Sridhar Siddiraju, **Sabitha Yadam**
- Protective effects of aqueous and ethanol extracts of Ficus religiosa Leaves and Bark on H2O2-induced oxidative DNA damage in human lymphocytes by comet assay. **Dr. Sabitha Y**, BSR Kumari Int J Appl Res 2020;6(7):480-486.
- Molecular docking study on rna-dependent rna polymerase in sars-cov-1 and sars-cov-2 (covid-19), Ms. Alina, S. Malathi Varma, **Dr. Sabitha Y\*** . Wesleyan Journal of Research, Vol.14 No1(XXXIII).
- Study on Xrcc1 Arg399Gln Polymorphism in Chronic Kidney Disease. Amirdhavarshini, T. Monika, C. Lohitha, **Dr. Sabitha kotra**. International Conference on Biotechnology & Bio-engineering - Trends (ICBT-2017).
- CYP1A1 polymorphisims and risk of Head and Neck cancer in relation to tobacco smoking. **Sabitha.K** and Kaiser Jamil. Cancer Epidemiology 2010, 34, 587-592.
- Mutations in XRCC1 gene altering the genetic risks of head and neck cancer patients. **Sabitha.K**, VishnuVardhan reddy.M, and Kaiser Jamil. International Journal of cancer research.,5(2), 58-68, 2009.
- **Sabitha Kotra**, Kishore Kumar Madala and Kaiser Jamil (2008), Homology Models of the Mutated EGFR and their Response towards Quinazolin Analogues; J. Molecular Graphics and modeling , Vol-27, pp244-254.

- Evaluation of antioxidant enzymes and DNA damage as in Squamous Cell Carcinoma of the Head and Neck Cancers. **Sabitha.K** and Kaiser Jamil. Technology Spectrum 2(2), 34-39, 2008.
- GST genotypes in head and neck cancer patients and its clinical implications. **Sabitha.K**, VishnuVardhan reddy.M, and Kaiser Jamil. African Journal of Biotechnology 7 (21), 3853–3859, 2008.
- Mutations in MEXR leading to drug resistant in corneal keretites of humans. Suman . G, Khan, **Sabitha. K**, Kaiser Jamil. Indi.J. Exptl Biol. 44; 929-93, 2006.
- **Sabitha. K**, Kaiser Jamil; Analysis of EGFR gene mutations which have a response to quinazolin inhibitors. Bgrs' 2006 Novosibirsk, Russia July 16 - 22, 2006.

## **ABSTRACTS**

- Prediction of risk for Head and Neck Cancer in Habituated Smokers by using Machine Learning Algorithms. Yadam Suresh Chand, **Dr. Sabitha.Yadam**, Dr. S. Phani Kumar, Dr. Kaiser Jamil\* “Frontiers in Biotechnology & Bioengineering” (NCFBB 2020) 16-18 july, 2020, Hyderabad.
- Identification of Folic acid producing Bacteria from Home Made Butter K.Sahitya, E. Vasundhara, **Dr. Y. Sabitha\***. National conference on Role Of Women In Emerging Technologies” 17-08-2019, Hyderabad
- Identification of Novel Inhibitors for Multi Resistance Protein-1 By Using Insilico Techniques **Dr.Sabitha.Y**. National conference on Role Of Women In Emerging Technologies” 17-08-2019, Hyderabad
- Exploring a Novel Inhibitor for Type II Toxin-Antitoxin System of Mycobacterium Tuberculosis by In-Silico Methods. Manisha Dagar, Sabitha Kotra\*. National conference on Role Of Women In Emerging Technologies” 17-08-2019, Hyderabad
- Protective effects of aqueous and ethanol extracts of Ficus religiosa Leaves and Bark onH<sub>2</sub>O<sub>2</sub>-induced oxidative DNA damage in human lymphocytes by comet assay”. National Symposium on “Materials in Healthcare (MIH-18)” September 6-8, 2018, GITAM Deemed to be University, Hyderabad , Telangana. [*First prize for this abstract presentation*].].
- Aruna K, Dr. **Sabitha.yadam**. Antigenotoxic Effect of Hydrastis Canadensis (Hydrastis) Extract Against DNA Damage Induced by Hydrogen Peroxide in Cultured Human Peripheral Blood Lymphocytes. Biomarkers-November 22-23, 2017.

- **Sabitha.yadam**, K. Jamil, V. Martha. 2015. Study on GSTT1, GSTM1, CYP1A1, XRCC1 and P53 gene in Head and Neck Cancer Patients habituated with Bidi and cigarette smoking. AHNS Translational Research Meeting. Boston, MA April, 22, 2015
- **Sabitha K.** Kaiser Jamil, and MVV Reddy. Reactive oxygen species (ROS) generation in Smoking habituated Head and neck cancer patients., Internatinol clinical oncology congress, (ICOC-2007), Hyderabad, India. *[First prize for abstract presentation]*.
- **Sabitha K.** Kaiser Jamil, and MVV Reddy. Reactive Oxygen Species (ROS) Generation in Head and Neck Cancers. XIIIth All India congress of cytology and genetics and international Symposium on genomics and proteomics. 2007. Hyderabad, India.
- **Sabitha K.** Kaiser Jamil, and MVV Reddy. Effect of smoking on DNA damage in the Head and neck cancer assessed by the Comet Assay. American Academy of Otolaryngology- Head and Neck Surgery. 2007, USA.
- **Sabitha.K.** Dr. Mrs. Kaiser Jamil, EGFR Mutation to Gefitinib Response Using Cheminformatics. EMSI 2006, Hyderabad, 23rd Feb 2006.
- **Sabitha.K.** Dr. Mrs. Kaiser Jamil EGFR mutation to quinazolin inhibitors response using cheminformatics tools' (Control No. 2006-A-382-ESHG) European Conference of Human Genetics, May 6-9, 2006, RAI Congress Centre, Amsterdam, The Netherlands.
- **Sabitha K.** Kaiser Jamil, and MVV Reddy. Risk factors of Head and neck cancer in women. Twows National chapter. Hyderabad, India. 2006. *[Consolation award for abstract presentation]*
- V. Martha, **S. Kotra**, K. Jamil. 2006. as a Biomarker in Head and Neck Cancers. Otolaryngology - Head and Neck Surgery, Volume 137, Issue 2, Pages P220-P22. 2006.

#### Member in Board of Studies (BoS):

- **Member** of the Board of Studies in Tara Government Degree & P.G. Collegee, SANGAREDDY Medak Telangana, Hyderabad.
- Academic council member for Microbiology department Nalgonda women college

#### Phd students under Guidance -- 2

#### Seminars/conferences/workshops/training programmes Conducted: 15

1. Organising comity member for “National Conference on Biotechnology and Bioengineering trends” at JNTUH held on 27<sup>th</sup> -29 th February 2020, sponsored by TEQIP III, Hyderabad, India.

2. Workshop convener and them preparation for “**Protein modeling and molecular docking**” 10-14 August at Cienclifesciences Hyderabad.
3. **Coordinator** of National **Conference on Effective and Ethical Stem Cell Therapeutics**. Organised by CIENCIA Pvt. Ltd. and KIMS Foundation & Research Center on 15th February 2014, Hyderabad, India
4. Coordinator Public Relations for National conference **Role Of Women In Emerging Technologies**, 17-08-2019, Hyderabad, India
5. **Coordinator** for National conference on : **Genomics in Health and Diseases**- August 22-23 2014, held at CRIUM Hyderabad, India.
6. Organised a 3-day workshop on “Biostatistics, research methodology and manuscript preparation” CIR, CBT, IST, JNTUH, during 24-26th July 2014.
7. Organising comity member for National Conference on “**Biomarkers for Diseases - Prospects & Challenges**” 24th & 25th February 2012, Organised by JNIAS, held at IICT Hyderabad.
8. Pro for National conference **Twows National chapter**. Hyderabad, India. 2006.

#### B.Sc/ M.Sc students guided - 500 members

#### Invited lecturers

- Invited for “National Level Competition for Bioscience Students in Association with Shaastra Fest IIT Madras Event”, A 2 day hands on workshop on Bioinformatics at CBT-IST, JNTUH, held on 29 th and 30th August 2019.
- Invited for talk on “**Drug design and Molecular modeling**” Tara Government Degree & P.G. College, SANGAREDDY Medak Telangana, Hyderabad. 1-02-2019.
- Invited for talk on topic “**Protein Structure Prediction through Insilco**” at CBT-IST, JNTUH, 23rd December 2019.
- Invited for talk on topic “**Different methodologies in Bioinformatics**” at JNTUH, March 11<sup>th</sup>, 2022.
- Invited for talk on topic “**Molecular Modeling**” at St. Mary's college, yousfguda 2023.

#### Other activities

- **Public relation officer for (2010-till) National chapter Third World Organization of Women Scientists - TWOWS, Hyderabad (Trieste, Italy ([www.twows.org](http://www.twows.org)));**

- ***Designing and execution of Research labs.***

### **Current Areas of Research:**

- Drug design using cheminformatic tools in cancer biology and Drug resistances.
- Pharmacogenomics, Genetics, Molecular biology.
- Development of Probiotics and Biofertilizer strains.
- Nanotechnology.
- Artificial intelligence in Drug designing.

### **Bioinformatics Skills:**

- Docking and computational studies of potential drugs
- Diversity Analysis of Combinatorial libraries
- Pharmacophore generation, QSAR studies and Molecular Dynamic studies of various inhibitors
- Carry out Purification of proteins using Gel Chromatographic techniques
- Creation of DNA libraries using PCR technique
- **Languages: R, Biopython, C** and algorithms (used in Protein Modeling and Rational drug designing)
- Development of 2D & 3D databases, Scaffold database and Curation from literature covering different Scientific Journals and Patents.
- On hand experience in software like ACD, Chemoffice, Scifinder, ISIS/Desktop and also online databases like Micropat(Patents), Delphion (Patents), Pubmed etc.

**Cheminformatics** (Computer Aided Drug Designing): Combinatorial library generation, Validation, Similarity and CSAR.

### **EDUCATION**

- **Ph.D in Dept Of Biotechnology**, JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad during 2006-2012. I worked under the guidance of Dr. Mrs. KAISER JAMIL, HEAD, DEPT.OF GENETICS, Bhagwan Mahavir Hospital And Research Centre, Masab Tank, Hyderabad on the topic entitled

*“A study on the molecular mechanisms and oxidative stress in smokers with head and neck squamous cell carcinoma”*

*Master of Science (M.Sc) in Biochemistry from Nagarjuna University, A.P during 2000-2002.*



***Bachelor of Science (B.Sc) in Biology from Nagarjuna University, A.P during 1997- 2000.***

**Successfully completed** Course on "Protein modeling and Rational Drug designing" at G.V.K. Bio-campus, Hyderabad, India. (2002). (This course covers modeling of Proteins (Homology, Modeler, Seqfold, 3D profiles) and their utilization in structure based drug designing studies (Ligand fit, LUDI, Affinity, Autodock, Gold) and computational approaches to the drug discovery and design process such as analogue base design (2D & 3D QSAR) and structure based drug design utilizing Accelrys complete library software, Pharamacophore generation using Insight II, Catalyst and Cerius2 platforms.).

### **PERSONAL DETAILS**

Citizenship	:	Indian
Gender	:	Female
Marital Status	:	Married
Date of Birth	:	04-05-1980
Permanent Address	:	Vazhraa Nirmaan Prathik, Flat no#905 Blooming Dale Road, Madhura Nagar, Nizampet, Hyderabad, Telangana 500090