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## **BRIEF PROFILE**

G M JAYASRI DAV Senior Secondary School, Chennai, India. (2012-2026)

**2024 - India Standard 10 - CBSE - 95% 2026 - India Standard 12 - CBSE** 

https://www.linkedin.com/in/jayasri-gm-b48a89249/

www.jayasrigm.com

jayasrigm2008@gmail.com

+91 9444 842 842

+91 9444 144 287

#### RESEARCH EXPERIENCE AS A CO-AUTHOR AND JOURNAL PUBLICATION

[SRI RAMACHANDRA MEDICAL COLLEGE & RESEARCH INSTITUTE, CHENNAI, INDIA.]
(DEPARTMENT OF BIOMEDICAL SCIENCES & TECHNOLOGY)

One of the Authors of the article titled "Computational Characterisation of Panax ginseng as potential Aromatase inhibiters for Breast Cancer" submitted at "BioMed Research International". Wiley Online Library https://share.google/sJa7n97ZjP0JcVBh0

## **INTERNSHIP CERTIFICATES**

[SRI RAMACHANDRA MEDICAL COLLEGE & RESEARCH INSTITUTE, CHENNAI, INDIA.]

- DEPARTMENT OF HUMAN GENETICS
- DEPARTMENT OF PHARMACY
- DEPARTMENT OF CLINICAL NUTRITION



#### DEPARTMENT OF BIOTECHNOLOGY



# INTERNSHIP CERTIFICATE

This certificate is proudly presented to

## G M Jayasri

for successfully completing the "Internship on Biotech Techniques" in the Department of Biotechnology, Sri Ramachandra Instititute of Higher Education and Research (Deemed to be University), Chennai, between 06th May and 06th June 2024. She has been trained in basic Molecular Biology techniques such as PCR and Western Blotting, Human Cell Culture and Plant Tissue Culture. She has also been trained in Computational techniques such as Molecular Docking and the work she has carried out is a contribution towards a scientific publication. We are proud to say that she will be one of the authors of the article titled "Computational Characterization of Panax ginseng as Potential Aromatase Inhibitors for Breast Cancer".

Dr. Mahesh Vakamudi

Pro Vice Chancellor Sri Ramachandra Institute of Higher Education and Research (DU) Chennai. Dr. Sudha Warrier

Principal, Faculty of Biomedical Sciences and Technology Professor and Head Department of Biotechnology Faculty of Biomedical Sciences and Technology SRIHER (DU), Chennal

#### DEPARTMENT OF HUMAN GENETICS



(Deemed to be University)

# SRI RAMACHANDRA FACULTY OF BIOMEDICAL SCIENCE AND TECHNOLOGY DEPARTMENT OF HUMAN GENETICS

This is to certify that Ms. G.M. Jayasri, 11<sup>th</sup> Standard, DAV Girls Senior Secondary CBSE School, Mogappair, Chennai-600037 was trained in basic genetic techniques at the Department of Human Genetics, Sri Ramachandra Faculty of Biomedical Science and Technology, Sri Ramachandra Institute of Higher Education and Research Chennai (Tamil Nadu, India).

During the period of 06-May-2024 to 06-June-2024, she performed the following:

- Chromosome preparation from blood: culture initiation, slide preparation, GTG banding and automated analysis using the iKaros software.
- DNA extraction and PCR
- Handling normal Drosophila melanogaster and understanding the role of this model organism to study disciplines ranging from fundamental genetics

She was also briefed on the various aspects of medical genetics with emphasis on common genetic syndromes and genetic counselling.

Dr. P. VENKATACHALAM, Ph.D., D.Sc., Professor & Head Department of Human Genetics Sri Ramachandra Institute of Higher Education and Research (Deepmed to be University)

Place: Chennai- 600 116 Date: 06-June-2024 THE HINDU IN SCHOOL FRIDAY, AUGUST 23, 2024

# A summer to remember

Summer vacation is all about spending time doing fun things such as going to summer camp, going to your grandmother's place or visiting a touristy spot. But for G.M. Jayasri, a student of class 11, it was about learning new things at Sri Ramachandra Medical College, Chennai. She applied for the internship program via email and was accepted as an intern for a month.

She visited four departments — Biotechnology, Human Genetics, Pharmaceutical and Clinical Nutrition Departments.

#### The four-week adventure

For the first two weeks, she visited the Pharma and Nutrition department, where she learnt how the receptors of our body induce pain, how various types of food that are recommended for different diseases or conditions and how the pharmaceutics help in relieving it.

From working on lab animals to understanding the chemistry behind the making and manufacturing of pharmaceutics, Jayasri learnt it all. "I was so shocked to know that our daily usage products like soaps, shampoos and a few drinks like Coke, Sprite, etc., have adverse effects on our human body both externally and internally due to their pH levels", she said.

In the third week, she visited the Biotechnology department where she was part of a journal regarding the phytocompounds which help to produce anti-cancer drugs against Breast Cancer. She simulated the phytocompounds and calculated the binding affinity of the compound with the target.

"Observing the breast cancer cells in different animals and observed how our stem cells are cultured, nourished and preserved in cryopreservation tanks was resplendent", she said.

In the last week of her intership, she worked at the Genetics department where she cultured her



PHOTO: SPECIAL ARRANGEMENT

DNA and observed it on the microscope.

# The takeaway from the internship

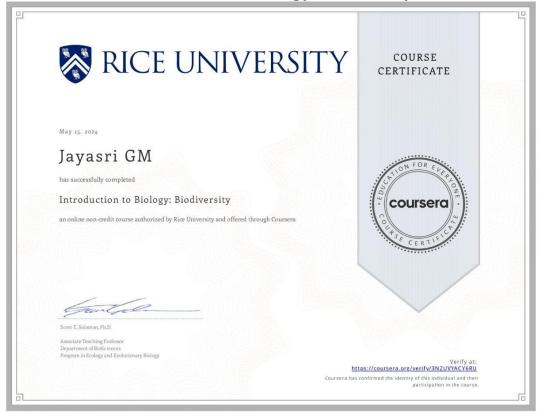
"Learning does not stop as we get older, because, there's still so much in this world waiting to be unweiled by young minds like ourselves. We should always be humble and down-to-earth. I learnt that even the smallest of things need to be appreciated. In Leonardo da Vinci's words, "Education never exhausts the mind", this programme opened my eyes to the richness of the smaller world living within us", said Jayasri.

"This kind of program opened the doors of diversified opportunities apart from medicine/ BDS/ Engineering. These programs should be a mandatory between high and higher secondary to find out the thought shower of the students and also for the best future of our country," she added.

(The author, GM Jayasri, is a student at DAV Girls Hr Sec CBSE School, Mogappair.)

## **RICE UNIVERSITY**

# **Introduction to Biology: Biodiversity**



# **INDIAN INSTITUTE OF TECHNOLOGY, MADRAS (IIT-M)**

## **DATA SCIENCE AND AI**



#### **SOCIAL WELFARE ACTIVITIES**

• Conducted workshop at **GOVERNMENT CHILDREN'S HOME FOR GIRLS** on "silk thread start-up "business and distributed a start-up kit for all victim girls.

From

Tmt J Yasodha, BSc, M.A, M.A, Bed., Superintendent (i/c) Government Children's Home for Girls, Department of Children Welfare & Special Services, Chennai-600010. gchkellys@gmail.com То

G.M. Jayasri, Standard 11, DAV Girls CBSE Senior Secondary School, Mogapper, Chennai-37. jayasrigm2008@gmail.com

#### Rc. File No. A1/835/2024 dated 16.8.2024

Dear G.M Jayasri,

Sub:

Initiative - Startup Workshop – workshop conducted to Girls for their livelihood – startup business model introduced to Girls by G.M.Jayasri – standard 11 – DAV Girls CBSE Senior Secondary School, Mogapper, Chennai – Tamilnadu – certificate of appreciation – sent – reg.

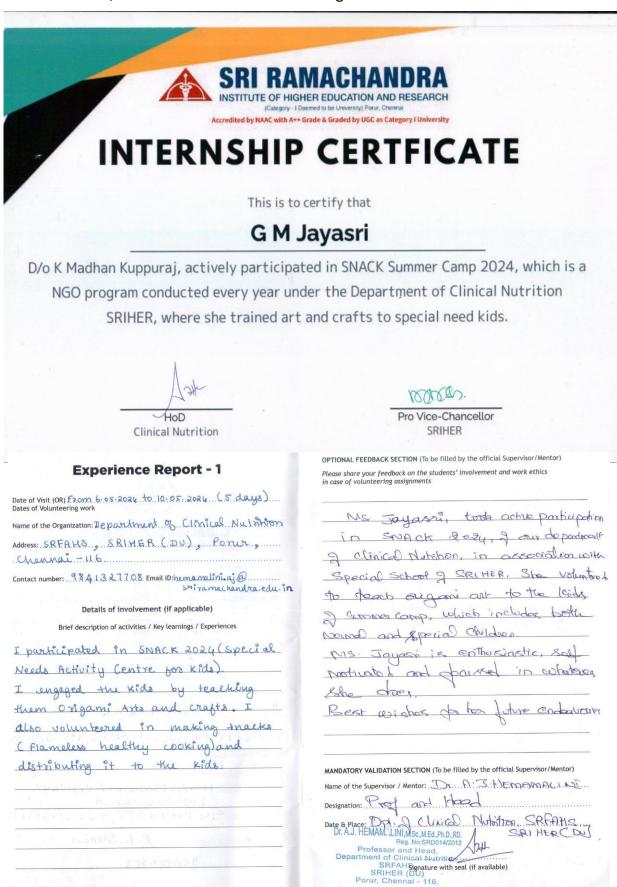
This is to certify that G.M Jayasri of 11<sup>th</sup> Standard of DAV Girls (CBSE) Sr. Sec School, Chennai has conducted a skill development workshop on "Silk Thread startup business" to our Juvenile girl children on 16.8.2024 in view of 78<sup>th</sup> Independence day celebrations and distributed startup kits to all children. This startup training model really envisages our children.

- · ensures a firm and self-reliant steps for their livelihood
- Less expenditure for raw materials and huge profit on sale of end products
- Increases mental and physical strength of children.
- · Concentration towards their goal.
- The Colorful combinations involved in this work Psychologically gives peace, clam, positivity and happy mindset to the children.
- Leads to Creativity and online business platform.
- Converts them to become woman-entrepreneur.

This workshop taken by GM Jayasri will definitely give a key grip to our children for their betterment of life and helps to come up and lead a normal life in the society. We whole heartedly wish G.M Jayasri and strongly believe that her vision and intention towards the liftment of children will definitely paves way to form a cultured and disciplined society.

With best wishes.

Actively participated and trained art & crafts to special need kids in the "SNACK summer camp 2024", a NGO program conducted at the Department of Clinical Nutrition, Sri Ramachandra Medical College & Research Institute.



#### **ROTARY CLUB:**



# ROTARY CLUB OF CHENNAI METROZONE



Club ID: 90250 Chartered on 17th June 2019

November, 2025

#### To whomsoever it may concern

This is to certify that Ms. G. M. Jayasri, residing at Flat E-004, Tower E, Metrozone Apartments, Anna Nagar, Chennai – 600040, Tamil Nadu, India, serves as the Student Secretary of the Interact Club of Metrozone, an active youth wing of the Rotary Club of Metrozone, Chennai.

As a minor member of the Interact Club, Ms. Jayasri has been actively engaged in various community service initiatives. Her notable contributions include leading collection drives for reusable clothing and story books for distribution among underprivileged communities, and providing voluntary tutoring support to schoolchildren whenever her schedule allows.

The Rotary Club of Metrozone sincerely appreciates Ms. Jayasri's enthusiasm, leadership, and commitment to community service. We commend her strong sense of social responsibility and recommend her wholeheartedly for any academic or cultural opportunities.

For any further information, please feel free to contact the undersigned at the address below.



P. PARTHIBAN
PRESIDENT,
ROTARY CLUB OF METROZONE.
CHENNAI — 600040.
MOBILE — 9884000999.

Office: J-301, The Metrozone, No: 44, Pillaiyar Koil Street, Jawaharlal Nehru Road, Anna Nagar, Chennai, Tamil Nadu - 600040.

#### **INDUSTRIAL VISIT**

As an Individual, visited "Green Signal Bio Pharma Private Limited", a BCG Vaccine manufacturing industry, where learned about the live attenuated vaccine, modes of administering vaccines, VVM in the vaccine vial, BCG manufacturing steps.



Date: 8th June 2024

# **CERTIFICATE OF INDUSTRIAL VISIT**

This is to certify that, G.M Jayasri, has visited our manufacturing facility situated at No. 49, Pappankuppam Village, Gummidipoondi as a student of 11th standard, CBSE Board.

She observed the following:

- Live attenuated vaccines and BCG vaccine
- Modes of administering vaccines
- · Pharmaceutical form of BCG
- VVM in the vaccine vial
- BCG manufacturing steps

She is found to be very passionate and interested in learning the manufacturing process of BCG Vaccine. She was enthusiastic and academically sound.

School Name: DAV GIRLS SR SEC (CBSE) SCHOOL, MOGAPPER, CHENNAI, INDIA.

11TH STANDARD CBSE BOARD Class:

We wish her all success in her future endeavours.

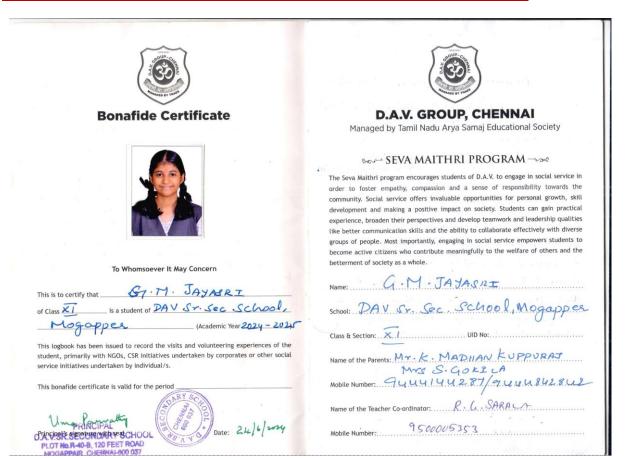
Dr. P. Murali MANAGING DIRECTOR

Office: Old No. 5, New No. 13/A3, Sai Nikethan, Circular Road, United India Colony, Kodambakkam, Chennai - 600 024. Tamil Nadu, India. Tel : +91 44 2472 2244, Fax : +91 44 2472 2233 E-mail : gsbpl@gsbpl.com / Website : www.gsbpl.com

Factory:
No. 49, Pappankuppam Village,
Gummidipoondi, Chennai - 601 201, India.
Tel: +91 44 2792 2446

Fax: +91 44 2792 2436

### REMARKS OF TEACHERS / DIRECTOR OF D.A.V. SR SEC CBSE SCHOOL



PEMARKS BY TEACHER CO-ORDINATOR
Signature (with date) should be affixed immediately below the feedback
the same control of the sa
Jayasri is a hardworking
and sincere student. She is focused
and actively participales in the
activities assigned to her. Academically
She is a brilliant student. Her
Services in the seva Meithri program
is commendable.
R. C. Sarala
R. C. Sarala 24/6/24
MESSAGE FROM DIRECTOR
No. of Activities: 1
Appreciation lo Sayasri for Goluntary activity. Best Nishes lo Continue her SEVA
activities Book blishes to continue her SEVA
activity, soist Notices to Committee that observe
all through her life.
Inough her lye.
DIRECTOR - ACADEMICS
D.A.V. GROUP OF SCHOOLS No. 212-213, LLOYDS ROAD
CHENNAI - 600 086.

## REMARKS OF HODs OF MEDICAL COLLEGE & RESEARCH INSTITUTE

appreciate Ms. Sayossis tremondous in terest G.M. JAVASRI in learning and for commitment and Throughout her posting poriod 8to exhibited enthusiasion. kean interest in observing, lapping and executing. a young Prodigy, who want to excel in -11- Hes resticulous preponalis & regarding the Book of the Dr. A.J. A.E. No. S. NO. S cohateres she undables Proof of her aboilities. Reg. No:SRD014/20120 Professor and Head,
Department of Clinical Nutrition, in all her endeavours. SRFAHS,

Tayassi as a scholar exhibited trevendous enthiniasan ant a heer learner. She has excellent grasping capacity - a quick learner. She was able to quilly adapt to the education environment in our collège. I wish her all the very best.

D. Frutan.

-17-

Dr. A. JERAD SURESH, M. Pharm, Ph.D., MBA
PRINCIPAL
Sri Ramachandra Faculty of Pharmacy
SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Deemed to be University)
Porur, Chennai - 600 116.

Jayassi demonstrated remarkable commitment and dedication. She had a strong inclination for learning new tooks and techniques. I am confident that she will excel in her f endoavors, achieving her dreams and I was her all the best! Prof. SUDHA WARRIER HEAD - Department of Biotechnology Faculty of Biomedical Sciences & Technology SKIRAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH Porur, Chennai - 600 116.

Ms. G.M. Jayash was a very hardworking and enthused student. She expressed a lot of Interest in the field of genetics and was very regular in her activities

50, Our

-13-

Dr. P. VENKATACHALAM, Ph.D., D.Sc., Professor & Head Department of Human Genetics Sri Ramachandra Institute of Higher Education and Research (Deemed to be University) Porur, Chennal - 600 116.



# SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University)
Porur, Chennai - 600116.

Nov 10, 2025

Dr. Benedict Christopher Paul

BSc (Medical Laboratory Technology), MSc (Biotechnology), PhD Assistant Professor

### To Whom It May Concern

I am writing this letter to give my highest recommendation to Jayasri Gokila Madhan. I had the pleasure of mentoring Jayasri when she was a tenth-grade student at DAV Senior Secondary School, CBSE, in Mogappair, Chennai (Roll No. 20134492). She undertook a one-month internship in my department from May 15th to June 15th, 2024, an initiative that clearly demonstrates her proactive nature and early passion for scientific inquiry.

During her time in my laboratory, I introduced Jayasri to the fundamentals of computational biology, a field that is typically reserved for advanced undergraduate or graduate students. Despite her young age and lack of prior exposure to in-silico research, she demonstrated an impressive ability to quickly grasp complex theoretical concepts and apply new technical skills with diligence and precision.

Her internship project was both timely and challenging, focusing on the evaluation of compounds from the medicinal plant Panax ginseng as potential inhibitors for the enzyme aromatase. This enzyme is a critical target in the treatment of hormone-sensitive breast cancer, and her work involved performing a molecular docking analysis to predict the binding affinities of various ginsenosides. The quality of her work and her insightful understanding of the project's objectives were exceptional.

The most remarkable outcome of her internship was her contribution to a research manuscript based on this work, titled "Evaluation of Ginsenosides and their Derivatives from Panax ginseng as Aromatase Inhibitors for Breast Cancer Treatment - An in silico study." It is a testament to her dedication and intellectual capabilities that she earned the distinction of sharing first authorship with a PhD scholar on this paper, which is currently in communication with a peer-reviewed

Office: Department of Biotechnology, Faculty of Biomedical Sciences and Technology,
Sri Ramachandra Institute of Higher Education and Research, Chennai - 600116.

Mobile: +917010972354, email: drbenedictpaul@gmail.com, benedictpaulc@sriramachandra.edu.in

www.drpaul.cc



Porur, Chennai - 600116.

journal. This is a rare and significant achievement for a student at her academic level and distinguishes her as a candidate with demonstrated research potential.

Throughout the internship, Jayasri proved to be a highly motivated and responsible individual. She showed great initiative, asked thoughtful questions, and was able to work independently after initial guidance. Her enthusiasm for applying scientific knowledge to address real-world health problems like breast cancer was evident.

In summary, Jayasri Gokila Madhan is an outstanding and hardworking student with a genuine passion for scientific discovery. Her ability to undertake and contribute meaningfully to a high-level research project at such an early stage in her academic journey is a clear indicator of her potential for success. I am confident that she possesses the intellect, maturity, and perseverance to excel in a rigorous undergraduate program.

I recommend her for admission to your institution without any reservations and am certain that she will become a valuable asset to your student community.

I wish her a very bright and blessed future.

Sincerely,

Benedict Paul



Subject: Reference Letter for Ms. G.M. Jayasri

12-Nov-2025

To Whom It May Concern,

I am pleased to write this letter of recommendation for Jayasri, who completed a short-term internship in our Genetics Laboratory at Sri Ramachandra Institute of Higher Education and Research (Chennai, Tamil Nadu, India) for a month in June, 2024. During her time with us, she demonstrated an exceptional level of curiosity, diligence, and maturity well beyond her years.

As part of her internship, Jayasri was introduced to the principles and practical aspects of human cytogenetics. She learned the procedures involved in chromosome analysis from peripheral blood samples, including sample preparation, culture setup, harvesting, and the fundamentals of karyotyping. She quickly grasped the technical and theoretical aspects of chromosome identification and banding patterns, displaying both precision and keen analytical thinking. What particularly impressed our team was her enthusiasm for learning and her ability to connect laboratory observations with broader genetic concepts. She frequently asked insightful questions about chromosomal abnormalities, inheritance patterns, and clinical implications, reflecting a genuine interest in understanding how genetics influences human health. Her internship report was clear, well-structured, and demonstrated strong scientific communication skills.

In addition to her technical competence, Jayasri displayed excellent responsibility, and professionalism. She interacted respectfully with staff and peers, showing initiative while adhering to safety and ethical guidelines in the lab. Her positive attitude and motivation made her a pleasure to mentor. I am confident that Jayasri will bring the same enthusiasm, curiosity, and integrity to her college education that she demonstrated during her internship. She has a bright future in the biological sciences, and I wholeheartedly recommend her for admission to your program.

Please feel free to contact me at teenak@sriramachandra.edu.in should you require any additional information.

Sincerely

ent of Human Genetics, of Biomedical Science and Technolog ute of Higher Education and Research



teenak@sriramachandra.edu.in



(Category - I Deemed to be University) Porur, Chennai

#### LETTER OF RECOMMENDATION

Dr. J. Srikanth. M.Pharm., Ph.D., Associate Professor/Assistant Dean (Students) Sri Ramachandra Faculty of pharmacy Sri Ramachandra Institute of Higher Education and Research (DU) Porur. Chennai-600116. Tamil Nadu. India. Official Email-Id: srikanth.i@sriramachandra.edu.in

Contact Number: +91 9094020093

#### TO WHOMSOEVER IT MAY CONCERN

I am pleased to write this letter of recommendation for Jayasri, who completed a shortterm internship in our Pharmaceutics Laboratory at Sri Ramachandra Institute of Higher Education and Research for a month in July, 2024. During her time with us, she demonstrated an exceptional level of curiosity, practical aptitude, and maturity well beyond her years.

As part of her internship, Jayasri was introduced to the principles of topical formulation development. Her project involved the hands-on preparation of calamine lotion, where she first learned the procedures for creating the standard formulation. She quickly grasped the function of key ingredients like bentonite clay and zinc oxide. What particularly impressed our team was her enthusiasm to explore the project further. Under guidance, she prepared a novel formulation by replacing conventional ingredients with natural substitutes, such as using multani mitti clay and coconut oil. She frequently asked insightful questions about the realworld implications of such changes, discussing concepts like Non-GMO ingredients, and the challenges of maintaining product stability and Sun Protection Factor (SPF) in natural formulations. Her internship report was clear, well- structured, and demonstrated strong in her scientific comprehension.

In addition to her technical competence, Jayasri displayed excellent responsibility and professionalism. She interacted respectfully with staff and postgraduate students, showing initiative while adhering strictly to safety guidelines in the lab. Her positive attitude and motivation made her a pleasure to mentor. I am confident that Jayasri will bring the same enthusiasm, curiosity, and integrity to her college education that she demonstrated during her internship. She has a bright future in the pharmaceutical sciences, and I wholeheartedly recommend her for admission to your program. Please feel free to contact me for any additional information.

Dr. JSRIKANTH, M.Pharm., Ph.D., Associate Professor Sri Ramachandra Faculty of Pharmacy SRI RAMACHANDRA

Dr. J. Srikanth