

CURRICULUM VITAE

Dr. G. NAGENDRA BABU

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- A highly experienced Faculty with over 22 years in the field of teaching to Graduate and Post-graduate students and Administration.
- Having technical knowledge in writing scientific documents and interpretation in various branches of sciences with dedication and expertise with proven ability in teaching and research development.
- Presented and participated in different national and International conferences.
- Published several publications in peer reviewed journals.

ACADAMIC QUALIFICATIONS

- **Ph.D., in Biochemistry** from Dept. of Biochemistry, **Sri Venkateswara University, Tirupati , A.P.** (2008)
- **M.Sc. in Biochemistry** from **University of Madras, Chennai** (2000).
- **M.Sc. in Chemistry** from **University of Vinayaka Mission, Salem** (2014).

SUBJECTS TAUGHT AND TEACHING

Biomolecules and microbial biochemistry, cell biology and physiology, Bio-analytical techniques, Nutritional biochemistry, Clinical biochemistry, endocrinology, bioenergetics and metabolism immunology, Enzymology, intermediary metabolism, molecular biology, Medical physiology, environmental studies for graduate and post-graduate students.

PROFESSIONAL EXPERIENCE

- Working as a **professor** in the Department of Biochemistry in Malla Reddy university, Hyderabad from October 7th 2023 to till date.
- Worked as a **professor** in the Department of Biochemistry in Dr. A.E.R Degree and PG College from 1st July 2018 to October 7th 2023.
- Promoted as an **Associate Professor** in the Department of Biochemistry in Dr. A.E.R Degree and PG College from 11th July 2010 to 30th June 2018.
- Joined as an **Assistant Professor** in the Department of Biochemistry in Dr. A.E.R Degree and PG College from 6th Nov 2000 to 10th July 2010.
- Executive committee Member in **Renigunta Educational Society** (Sri Srinivasa Junior College, Renigunta)
- Worked as **NSS Programmer Officer** in S.V. University.
- Working as an anti-ragging committee member.

RESEARCH WORK (PhD)

Submitted thesis on “**Studies on exploiting Cyanobacteria as spectral probes to monitor metal toxicity**”

As Cyanobacteria is a Single Cell Protein, and it is affected by metal effluents released by industries, we selected two metal ions (Ag & Cr) and monitored their Electron Transport using Oxygen Electrode, and as their energy transfer is related to spectral properties we studied their spectral properties using Spectrophotometer, Spectro fluorimeter identified as these metals induce degradation of β -polypeptide of Phycocyanin of Light harvesting pigment protein complex Phycobilisomes and confirmed by using SDS-PAGE. Therefore the changes in the spectral properties of the Phycocyanin can be used as indicator to access the toxicity of metal ions in Cyanobacterial Cells.

LIST OF PUBLICATIONS

1. R.Ranjani. PrasannaKumar, D., **G.NagendraBabu** and Murthy.S.D.S, (2006) Variation in the thermal sensitivity of electron transport and proton uptake in Wheat thylakoids under high temperature stress. *Vegetos*. 19: 63-67.
2. **Nagendra Babu, G.**Ranjani., R, Fareeda, G and Murthy, S.D.S.(2006) Heavy metal binding polypeptides in plants and their role in metal detoxification. *J.phytol.res*. 20: 1-6.
3. Ranjani. R, **NagendraBabu., G**, and Murthy, S.D.S. (2007) Effect of Copper on Photosynthetic electron transport activities in the Cyanobacterium *Spirulina platensis*. *Vegetos*. 20(2): 63-67.
4. **Nagendra Babu, G**, PhaninathaSarma., A .Murthy, S.D.S (2008) Isolation and Characterization of Phycobilisomes from the Cyanobacterium, *Spirulina platensis*. *The bioscan*. 3:71-74.
5. AzeemulHasan, M., PhaninathaSarma, A., **Nagendra Babu, G** and Murthy, S.D.S (2008) Altered thylakoid membrane organization and photochemical functions in wheat thylakoid membranes under the influence of cadmium. *J.Phyt.Res*. 22: 25-28
6. **Nagendra Babu, G**,PhaninathaSarma., A. IdressH.Attalata Murthy, S.D.S (2010) Effect of selected heavy metal ions on the photosynthetic electron transport and energy transfer in the thylakoid membrane of the Cyanobacterium, *Spirulina platensis*. *Academic journal of plant sciences*. 3(1)46-49, 2010.
7. P. Ganesh, **G. Nagendra babu** and G. Sudarsanam³Pharmacognostical and analytical studies of leaves of *Pterolobium hexapetalum*(Roth) Santapau&Wagh
Journal of Pharmacy Research 2014,8(4),541-547
8. **Nagendra Babu, G**and Murthy, S.D.S. (2017) Studies on toxic effect of Chromium and Silver heavy metals on electron transport systems in Cyanobacteria Andhra Pradesh Journal of Agricultural Sciences,2017 ,234
9. **Nagendra Babu, G** and Murthy, S.D.S. (2017) SDS-PAGE Profiles of Silver and Chromium heavy metals on *Spirulina platensis* - A case study, Andhra Pradesh Journal of Agricultural Sciences,2017 ,235
10. Vijaya Bhaskar Reddy M, **Nagendra Babu G**, Pornthip Layanan and Sasikala P(2021) An Assessment On KAP impact on elderly patients with Spinal Stenosis. *Turkish Journal Of Physiotherapy and Rehabilitation*;32 (3) ISSN 2651-4451
11. Vijaya Bhaskar Reddy M **Nagendra Babu G** and Rattanathorn Intarak (2021) Socio Economic Impact of Covid 19 on Tourism and Thai Local Communities. *Turkish Journal Of Physiotherapy and Rehabilitation*;32 (3) ISSN 2651-4451
12. Adimulam Harinath, **G. Nagendra Babu**, Tejovathi Bandike, D. Suresh, D.Samsonu, Manuri Brahmayya (2024). Graphene-Calcium Phosphate Nanocomposites for the sustainability of

Bone repair and its Biological Properties. African Journal of Biological Sciences. 6(16): 434-446. ISSN: 2663-2187. November 2024 (**Scopus, Q4**)

13. S.Hari Priya, **Nagendra Babu**, Praveen Kumar, Triveni. Estimation of oxidative stress in type 2 diabetes mellitus patients in correlation with HbA1C. Indian Journal of applied and pure biology, Vol 40 (1), 321-328 (2025) ISSN:0970-2091. January 2025
14. Meera Indracanti, Muni Kumar Dokka, Madhumita Panda, Padmaja Musunuri , **Nagendra Babu Gundamraju**. Beyond IDO1: Systems-Level Insights into Enzymatic Networks and Regulatory Mechanisms in Cancer Immunotherapy Resistance. **Journal of Carcinogenesis**, ISSN: 1477-3163 March 2025; Vol 24: Issue 4s, <https://carcinogenesis.com/>
15. Meera Indracanti¹, Bharathi BVNV, **Nagendra Babu Gundamraju**, Tejovathi Bandike, Priyadarsini Bada, Pavan Chand Akkiraju Cardiovascular Risk Assessment in Women with Polycystic Ovary Syndrome: A Systematic Review. **Journal Of Applied Bioanalysis**, August 2025, p. 432-440. <http://doi.org/10.53555/jab.v11si1.433> (ISSN 2405-710X) Vol. 11, No. S1

PERSONAL PROFILE:

Address : Dr. G. Nagendra Babu,
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Date of Birth : 16th June 1977

Marital Status : Married

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