

Curriculum vitae



Dr. Shrikrishna Madhukar Nandanwadkar
M. Pharm., (Ph.D)

KLE Academy of Higher Education
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PROFESSIONAL

Present Designation

- ✚ Deputed as Post Doctoral Fellow / Master Trainer / Lab Head In Food and Micro-Nutrient Analysis Laboratory at KLE Academy of Higher Education & Research.
- ✚ Have applied as National Post Doctoral Research fellow in Central government scheme of Science Engineering & Research Board (SERB)

EXPERIENCE

- 7+ years' experience in planar chromatography (HP-TLC).
- Passionate technical leader with clear vision and immense passion to drive organizational goals.
- Also having hands on experience on hyphenated techniques related to HP-TLC like HP-TLC-MS and LC-MS and GC-MS

RECENT AWARD

- Received 1st Prize for Dr. P. D. Sethi Memorial National Award 2020 for the "Best Research Paper" on "Application of TLC/HP-TLC in Pharma, Herbal and other Analysis"

OVERVIEW OF WORK EXPERIENCE

- Qualified, technically proficient & skilled in scheming effective Strategies & Programs to meet consumer
- Deep understanding of analytical instruments, Food safety & Quality
- Developing method development protocols and designs for successful quality control checks.

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- Organized to take lead, proficient with ability to plan and oversee projects from concept to successful conclusion.
- Extensive experience working with R&D in Anchrom Enterprises Pvt Ltd Mulund, Mumbai and Actual hands on Experience in Chika Overseas Pvt Ltd, Ahmedabad, Gujarat, on HPLC and ICP-OES
- Provide technical training and direction, mentoring students and research scholars from past 4 years
- 5 Years plus experience Analytical technologies, troubleshooting & testing of raw materials as well as products online complaint and market samples as enquiry.
- Have handled protocols for processed foods, spices and beverages quality control.
- Participated in Product development and design from Technical solutions to product launch.
- Associated with Anchrom Test Labs Pvt Ltd and Chika Overseas for Research work understanding.
- Quality capable of managing technical personnel and training team in research procedures and mentoring for achievement.

KEY SKILLS

- Well trained and experienced in analytical and technical problem solving
- Team Leadership & Collaboration
- Analytical Instrumentation (Expert in HPLC, with latest 21 CFR Vision Cts software)
- Project risk assessment & Critical Thinking
- Method development & Validation programs
- Trained on UV, HPLC, LC-MS and GC-MS
- Trained in developing food safety, Herbal analysis and Pharmaceutical content uniformity protocols.
- Food analysis and identification and detection of toxic compounds like restricted AZO DYES,
- Aflatoxins, developing USP compliant protocols by HPLC for Herbal and Pharmaceutical APIs and Formulations.

WORK EXPERIENCE

- Very well Associated with Anchrom, since 2012, a SWITZERLAND RECOGNISED LABORATORY, NOW INDIA SPECIFIC APPLICATION LAB, Mulund, MUMBAI
- Handling food and micronutrient laboratory as Master Trainer / Lab Head, sponsored by Joint collaboration initiative between Global Alliance for Improved Nutrition (G.A.I.N), and supported by Karnataka Health Promotion Trust (K.H.P.T) and KLE Academy Of Higher Education & Research (K.A.H.E.R), Belagavi, 590010. From past

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6 months

KEY RESPONSIBILITIES AT PRESENT & UNDERGONE:

- Lab infrastructure development.
- Method development and Validation of Protocols for Pharmaceuticals, Herbal, Synthetic colorants, Natural Pigments.
- Development & Validation Protocols for Fortification of Edible Oil with Fat Soluble Vitamins especially A, D E & K, as well as for Wheat flour, with Iron, (Fe), Folic Acid(B9) & Vitamin B12.
- Method development & Validation of Certified Reference Materials (C.R.M's) for fortification of Edible oil & Wheat flour.
- Maintaining Lab records
- Contributing technical development of analytical team, Capacity building and proficiency Testing of Certified Central & State Food Laboratories, along with routine analysis of HPLC, HPLC, AAS, UV, ICP-OES, Color Reflectance Spectrophotometer etc.
- To manage, maintain & optimize lab instruments, protocols, S.O.P's & its documentation.
- Demonstration, Training, organizing Seminar as well as Deminar for students,

ANALYTICAL METHOD DEVELOPMENT (COMPLYING 21 CFR REGULATIONS)

- Develop analytical technologies that will help to provide evidence-based research in regards to safety and chemical and Elemental toxicity for herbals, Food and related products, cosmetic products
- Perform Benchmarking studies with accelerated Stability Studies.
- Formulation and Evaluation of Nano forms by Nanotrac
- Method development And Validation of Phyto Formulations using HPLC.
- Resveratrol nano forms and its HPLC
- Method Development and Validation of Anti-Diabetic Polyherbal Formulation.
- Isolation and quantification of Caffeine from tea extract by HPLC

AT CHIKA OVERSEAS PVT LTD

- Method Validation of pharmaceuticals using HPLC System
- Competent to handle HPLC trouble shooting with hands on experience of Perkin Elmer instrument (UV, HPLC auto sampler with PDA detector and ICP-OES, with DWD digester)
- Well versed with **ISO 17234-1-2017 and 17234-2-2011 STANDARDS**
- Complete validation of herbals, food and routine pharmaceutical products
- Validation reporting as per regulations.
- Trained hands-on with ICP-OES for elemental analysis of Pharma and

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Synthetic products.

AT BUREAU VERITAS, BANGALORE

- Worked on LC-MS for Method Development and Validation of Banned azo amines in consumer goods using *ISO 14362-1-2017*
- Worked on GC-MS for Method Development and Validation of Banned azo amines in consumer goods using *ISO 14362-2-2017* Standard.

PUBLICATIONS IN NATIONAL & INTERNATIONAL PEER REVIEWED JOURNALS

- ✚ Nandanwadkar, S. M., Hurkadle, P. J., Bidikar, C. M., & Godbole, M. M. (2021). Multielemental Analysis and In Vitro Evaluation of Free Radical Scavenging Activity of Natural Phytopigments by ICP-OES and HPLC. *Frontiers in pharmacology*, 12, 396.
- ✚ Nandanwadkar, S. M., Shivamurthy, M. V., & Karunakar, P. (2021). Novel Simultaneous Identification of Capsaicin and Its Quantification in Transfersome Formulation By HPLC Technique. *Current Pharmaceutical Analysis*, 17(1), 172-183.
- ✚ Hurkadle, P. J., Nandanwadkar, S. M., Bidikar, C. M., Patil, R. N., & Hegde, H. V. (2021). High-performance thin-layer chromatographic method development and determination of bio-enhancer from Piper trichostachyon: an ethnomedicinal plant. *JPC-Journal of Planar Chromatography-Modern TLC*, 1-8.
- ✚ Nandanwadkar, S. M., & Vinayak S. M. (2020). A novel digitally optimized rapid quantification of carcinogenic aryl azo amines from various food matrices by HPLC-MS. *Journal of Liquid Chromatography & Related Technologies*, 43(13-14), 445-454.
- ✚ Nandanwadkar, S. M., & Mastiholmath, V. (2020). A novel USP-HPLC protocol compliant method for the simultaneous quantification of E-102, E-124, and E-133 azo dyes in consumer goods. *JPC-Journal of Planar Chromatography-Modern TLC*, 33(4), 405-412.
- ✚ Kannur, D., Nandanwadkar, S., Dhawane, S., Phulambrikar, S., & Khandelwal, K. (2017). Experimental evaluation of Hygrophila Schulli seed extracts for antistress activity. *Ancient science of life*, 37(1), 31.

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- ✚ Nandanwadkar, S. M., Mastiholimath, V. S., & Surlaker, S. R. (2016). HPLC Method Development and Validation of Antidiabetic Marker Compound from Polyherbal Formulation. Indian J. Pharm. Educ. Res, 50(4), 657-664.

International Presentations

- Presented a paper on "Anti-stress activity of Hygrophilla schuli" at MIT College of Pharmacy, Pune 2012.
- BEST POSTER Award** for POSTER PRESENTATION AT **KUALA LUMPUR MALAYSIA** HELD ON 23RD-24TH September (Traditional Medicine, held by Madridge).
- Excellence Award for Scientific Talk, as a speaker on "**ELEMENTAL IDENTIFICATION AND ESTIMATION OF NATURAL PIGMENTS BY ICP-OES AND TECHNIQUE**" KUALA LUMPUR, MALAYSIA
- Fast Analysis of Restricted Aromatic Azo Amines in Spices by Combination of Chromatography Spectroscopic Techniques. Kuala Lumpur, Malaysia Traditional Medicine, held by Madridge (Sept, 2019).
- Professional membership of SFE Society for ethnopharmacology

Poster presentations(International)

- Presented a poster on "Advances & Trends In Drug Development Process" at MAEERs MIT, Pune 2011.
- Rapid HPLC Analysis of Capsaicin Loaded Transdermal Transferosomes Formulation. At Thailand, MFU University, held by SFE under the scheme **Globalization of traditional Medicine (Dec, 2018)**.
- Formulation and Evaluation of Flavonoid Rich compound Containing Nanoparticles. Danipal, held by SFE under the scheme Globalization of traditional Medicine (Feb, 2019)
- Fast Analysis, Biological and Elemental Estimation of Phyto-Pigments, Establishing Efficacy and Safety. Lucknow, CSIR (Mar, 2019).
- Screening of Radical Scavenging property by DPPH Assay and Elemental Characterization of Natural food colors by ICP-OES at PUNE, under the theme of **Emerging Trends in Delivery of Phytoconstituents and Ethnopharmacology - Validation of Traditional Medicine - II**.

Added Credentials

- Winner, Inter College Cricket, Indira College of Pharmacy, Pune.
- Winner Inter-College Cricket, KLE Academy of Higher Education & Research, Belagavi.

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- Gold medal in cricket and football at Inter college competition held at RLS Stadium, KLE Academy of Higher Education & Research, Belagavi.
- Ph.D Thesis submitted.

Hobbies

- Swimming, Cycling, Calligraphy & Drawing
- Carrom
- Table tennis
- Badminton

Languages Known

- English
- Marathi
- Gujarati
- Hindi
- Sanskrit
- Kannada