

Dr. A. BALAMURUGAN

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Pathirikuppam, Koothapakkam
Cuddalore-607401

➤ OBJECTIVES:

To associate myself with an organization that provides me an opportunity to show my techno-proficient skills, improve my knowledge and to be a part of a team that works dynamically towards the growth of the organization.

➤ EDUCATIONAL QUALIFICATION:

S.No.	Course	University	College	Year of completion
01	Ph.D. Pharmacology & ET	Dr. ALMPGIBMS, University of Madras		2009-2013
02	M.B.A	DDE, Annamalai University		2004-2007
03	M. Phil Life Sciences	DDE, Manonmaniam Sundaranar University		2002- 2003
04	M.Sc., Applied Microbiology	University of Madras	Adhiparasakthi College of Science	1997- 1999
05	B.Sc., Microbiology	University of Madras	Sengunthar Arts & Science College	1994- 1997

➤ PROFESSIONAL EXPERIENCE:

Twenty years' of experience as Microbiologist in QA & QC departments and presently working in **Solara Active Pharma Sciences Ltd-Cuddalore**. (**Products** - Non-Sterile and Injectable Grade Active pharmaceutical ingredients, Excipients. **Certificates** - US-FDA, EDQM, MHRA, WHO, KFDA, MEXICAN, ISO-9001, OHSAS-18000, EMS-14001 Systems).

Position : **Group Leader** – Microbiology Lab - Quality Control.

Duration : Feb'2006 to Till Date.

* **Strengths:**

- Can Develop and manage Microbiology lab with effective documentation system as per the regulatory requirements.
- Mingling with teams to achieve organizational objectives and timelines.
- Team building to meet professional challenges.
- Communication with top management on quality related issues.

* **Job profile:**

- Being as Microbiology lab auditee for the above regulatory certificates & various foreign customer auditors.
- Microbiologist Evaluation & On the job Training.
- Allotment and ensure compliance of microbiology lab activities.
- Preparation of Protocol, SOP, master list & Formats and its execution for all microbiological techniques and instruments.
- Microbial Limit test for Water, finished products and Excipients.
- Bacterial Endotoxin Test for products and water.
- Environmental of monitoring of controlled areas.
- Handling and maintenance of Microbial cultures.
- Identification and Isolation of water, environmental isolates.
- Supporting R&D for the development and standardization of testing methods.
- Stability of the finished product by MLT & BET.
- TOC content of purified water & equipments by TOC analyzer.
- TC content of equipment's by SSM analyzer.
- Growth promotion test for media.
- Track wise creation of all microbiology lab documents.

* **Validation Studies:**

- Generation & Distribution of Water system.
- Performance Qualification of Classified areas.
- Antimicrobial Effectiveness test.
- Bacterial Endotoxin Test.
- Effectiveness of disinfectant in cleaning.
- Filter paper Efficiency test.
- Validation of Equipment cleaning by UV, TOC & SSM module.
- Product contact gases.
- Method validation for new methods.
- Spore isolation and identification in controlled areas.
- Media, Microbial suspension, 70 % IPA, Purified water stability study.
- Equipment, Centrifuge & FBD Bag cleaning efficacy and hold time study.

* **Instruments handled:**

TOC & SSM Analyzer, UV & IR Spectrophotometer, Flame photometer, Dissolved oxygen meter, Turbidity meter, Conductivity meter, Moisture meter, Anaerobic Jar.

* **Qualification & Calibration:**

Autoclave, Incubators, BOD Incubator, TOC analyzer, Solid Sample Module, Laminar airflow, Air sampler, Hot air oven, Microscope.

* **Additional Responsibilities & Achievements:**

- Quality Compliance auditor of Quality Control for checking of all lab activities.

- Review of quality control Record of Analysis such as Final, In process, Stability and CLV forms.
- Handling of audits, external auditor complaints along with Head – QC, Audit observations closing and ensure the implementation for QC during the period of 2007 -2008 & 2010.
- Solved the finished products failure issues in microbiology test such as Carisoprodol, Colesevelamer HCl, Sevelamer carbonate, Olanzapine and Nizatidine customer complaint by coordinating with PID lab & SRC.
- Working experience with SAP, TW, LIMS in QM Module.
- Certified Internal Quality Auditor for ISO9001 by TQMI.
- Certified Internal Quality Auditor for ISO14001, and ISO18001 by Bureau Veritas.
- Endorsed Chemist by Drug Control Department of India.
- Internally announced as Head - microbiology for API division during the period of 2007 -2011.
- Head Corporate microbiology for whole Shasun during the period of 2009.
- Preparation and implementation of corporate microbiology documents.
- Developed Bacterial Endotoxin Test by Gel clot method for Biotechnology product Streptokinase & NATCO Customer complaints handled for Biotechnology product Streptokinase.
- Certified in First aid and Fire safety trainings.

➤ **PREVIOUS EXPERIENCE:**

- * Previously worked with **Fourrts India laboratories pvt ltd, Chennai.**

Position: Microbiologist – Junior Executive – 1 year.

Products: Tablets, Oral solutions, Ointments, Creams, Paste, Herbominerals, Food products and Probiotics.

Job Responsibilities:

- Microbiological assay of vitamins, antibiotics, lactic acid bacillus and probiotics.
 - Sterility test for I.V fluids.
 - Identification of spoilage causing organism in finished products.
 - Preservative efficacy study for finished products.
 - Supporting R&D for the development, standardization of testing methods for finished products and assay in the aspect of microbiology.
 - Testing bioburden of finished products, raw materials, packing materials.
 - Maintenance and development of documents for **ISO and GMP.**
 - Shelf life and accelerated shelf life study for all finished products.
 - Testing of Controlled areas, Purified water both generation and distribution.
- * Previously worked with Desai Brothers Ltd, Brand Name: **Mother's recipe & Dabee, Pune.**
Position: Microbiologist – QA officer – 1.5 years.

Job Responsibilities – R&D work:

- Microbiology aspect development of products like ready to eat, pickles, papads and Masalas.
- Implementation and standardization of new methods to control microbial growth.
- Identification of spoilage causing organism in spoiled foods & implementation of Its corrective action
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- Determination of efficacy for food additives by microbiological method.

QA work:

- Documentation compliance checking for instruments, raw materials, final products and packing materials.
 - Container inspection and certification for export.
 - Online process and packing monitoring during manufacturing.
 - Market sample analysis and its report compilation.
 - Involved in sensory evaluation test.
 - Attending market complaints and implementation of its corrective actions.
 - Involved in auditing and inspection of party to party manufacturing units.
 - Environmental monitoring by air sampling, swab test for personnel monitoring & equipment.
 - Maintenance and development of SOP and documents for HACCP.
 - Shelf life and accelerated shelf life study for all finished products.
- * Previously worked with **Rawani foods and beverages Ltd.** (Manikchand Oxyrich Mineral Water) Bureau of Indian standards (BIS) certified company. Chennai, Tamilnadu.
- Position: Senior quality control officer – 1year**
- * Previously worked with **Good life products Ltd** (CheriO) Chennai Tamilnadu,
- Position: Quality control officer - 1 year**
- Previously worked with Thiruvalluvar Arts and Science College, Kuringipadi, Cuddalore Dt., Tamilnadu. **Position: Lecturer in the Department of Microbiology- 2 years.**

➤ INDUSTRIAL TRAININGS ATTENDED:

- Workshop with seminar on Kinetic Methods in LAL testing conducted by Salesworth India pvt. Ltd, Pune.
- Internal Quality Auditor training attended in Shasun Research Centre, Chennai conducted by TQMI.
- Internal Quality Auditor training attended in Shasun Training Centre, Pondicherry conducted by Bureau Veritas.

➤ **MAJOR FINDINGS FROM THE DOCTORAL PROGRAMME UNDER THE GUIDENCE OF Prof. Dr. M. P. Balasubramanaian:**

Our studies showed that Ficus carica fruit extract (FFE), induced cell apoptosis in MCF-7 cells. The objective of my study was to evaluate the players of apoptotic cascade, tumor suppressor gene expressions in the presence of FFE in human mammary carcinoma cells. Several proteins involved in this process, the intracellular redox levels and the viability of cells were analyzed in control and FFE treated cells. The mechanism of FFE mediated apoptosis was determined and apoptosis was confirmed using microscopic studies and DNA fragmentation analysis. Most of these genes were vital for suppression of cancer cells, development, differentiation and cell cycle progression. The interaction and anticancer property of FFE in an animal model of breast carcinogenesis was also explored. We also employed various techniques including biochemical, hematological, histopathological and molecular tools to study the effect of FFE in animal model of breast tumor. The implication of such a study is the inter-disciplinary approach will be useful in cancer detection, diagnosis, treatment with drugs, and for follow-up during chemotherapy.

➤ **PUBLICATIONS:**

- Fig Fruit Efficacy against NMU induced mammary carcinoma in female Sprague Dawley rats and in Human Breast cancer Cell line MCF-7 Book Published in LAMBERT Academic Publishing is an imprint of Omni Scriptum GmbH & Co. KG, Germany.
- Nandakumar N, Rengarajan T, **Balamurugan A**, and Balasubramanian M.P. Modulating effects of hesperidin on key carbohydrate-metabolizing enzymes, lipid profile, and membrane-bound adenosine triphosphatases against 7, 12-dimethylbenz (a) anthracene-induced breast carcinogenesis. Hum Exp Toxicol published online 20 May 2013.
- Rengarajan T, Jagadeesan A, **Balamurugan A**, Balasubramanian M.P. Chemotherapeutic potential of d-pinitol against 7, 12-dimethylbenz[a]anthracene (DMBA) induced mammary carcinoma in spraguedawley rats. [International Journal of Pharma and Bio Sciences].

➤ **ACADEMIC COUNCIL PROFILE:** Board of Studies Member as Industrial representative in St Joseph's College of Arts and Science (autonomous), Cuddalore.

➤ Board of Studies Member as Industrial representative in Sri Manakular Vinayagar Arts and Science College, Madagadipet, Puducherry.

➤ **PERSONAL PROFILE:**

Father's Name	: Mr A. Annamalai, Manager (retd.), CDCC Bank.
Mother's name	: Mrs A. Sivagami
DOB	: 05/05/1977
Current CTC	: 12.5 Lakhs per Annum

Sex/Nationality/Marital status : Male/Indian/Married

Passport Details : N0 – L6223294

Expiry- 10/12/2023

Type-P
