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| * **Molecular Biology** - DNA repair assays, Regular PCR, RT-PCR, qPCR, DNA/RNA isolation quantification; Detection of RNA/DNA using agarose and Polyacrylamide gel electrophoresis. * **Pathology –** Histological and pathological diagnosis, techniques for sample tissue section preparation and H&E staining, and Immunohistological staining. * **Microscopy –** Well versed in using and maintaining Light & fluorescent microscopy. * **Hematology-**blood cells count; reticulocyte count; blood smear; cytospin of CSF; blood coagulation tests; blood chemistry tests; enzyme and protein detection. * **Cytogenetics:** Preparation of chromosome sample and examine chromosome abnormalities; well versed in FISH stain; chromosome spread techniques   **CERTIFICATIONS**   * American Society for Clinical Pathology (ASCP)- Molecular Biologist (MB), Dallas, TX * Foundations for Clinical Research Professionals offered by UT Southwestern Center for Translational Medicine, 2018, Dallas, TX * **Professional Society Memberships:**   *American Society for Cancer Pathology (ASCP);*  *American Cancer Association for Cancer Research (AACR);*   * Highly dedicated and analytical-thinking professional with over 10 years of hands-on experience performing clinical and research laboratory services with strong organization skills. * Highly skilled in operating equipment and chemicals used in specific tests. Expertise in testing specimens and analyzing and reporting data. * Accurate reliable, diligent, and focused on the timely, quality completion of all lab procedures.   **Team and Leadership Skills:**   * Instructed 5 High school students under STAR program at UT Southwestern Medical Center * Instructed 4 Undergraduate students under SURF program at UT Southwestern Medical Center. * Supervised 6 Master graduate students at University of Madras, Chennai, India * **Departmental lab specimen processing** * Policies and Compliance * Lab equipment maintenance and calibration * Quality Control procedures, Records Maintenance * Performs optimization of new reagents, procedures and tests * Experienced with computer software including MS Office. | **Kalayarasan Srinivasan, Ph.D., MB (ASCP)**  5275 Fleetwood Oaks Ave., Apt. C, Dallas, Texas 75235 Phone: 214-254-5653 Permanent U.S. Resident [kalaivasanbio@gmail.com](mailto:kalaivasanbio@gmail.com) [kalayarasan.srinivasan@utsouthwestern.edu](mailto:kalayarasan.srinivasan@utsouthwestern.edu)  **Professional Experience Summary**  **UT Southwestern Medical Center**  **Medical Technologist, Dallas, TX 08/2015-present**   * Performed routine laboratory testing according to instructions * Identified normal and immature cells and RBC morphology under microscope * Performed microscopic evaluation of common bacterial pathogens, red blood cells abnormalities * Performed quality control on technical instruments to ensure reliability and accuracy of results * Accurately reported test results according to established procedures * Keeps work area clean and organized * Routinely perform proper disposes of all biohazardous/chemical hazardous material * Performed routine maintenance procedure to ensure proper instrument function * Wide-ranging knowledge of OSHA and CLIA compliance directives as used in a clinical/hospital setting   **UT Southwestern Medical Center**  **Research Scientist**, Dallas, TX -09/2010 – present   * Perform and analyse tests in biological areas, which include molecular biology, biochemistry, histology, to aid supervisor in diagnosing and treating disease. * Participate in continuing education through self-study, attending training sessions and off-site lectures and preparing programs to share with co-workers * Set up and maintain laboratory instruments * Monitor fine chemical, reagents and kits to ensure continuity of test performance * Routinely perform quantification of cytosolic ss/ds DNA using Oli/Pico-green respectively * Perform linearity testing to determine linear reportable range of analysis * Perform routine and specialized laboratory testing in their assigned speciality area, isolating RNA for RT-PCR * Train high school and undergraduate students * Performed validation on laboratory instruments * Demonstrated testing procedure and equipment to new laboratory personnel * Accurately reported test results according to established procedures * Carried out routine and complex laboratory tests in timely manner completing the analysis and reporting of data. * Coordinated with technician and laboratory supervisor for proper maintenance and repair of various laboratory testing equipment and reagents   **Kanchi Kamakodi Childs Trust Hospital Medical Technologist Internship**, Chennai, INDIA- 06/2001-06/2005   * Performed allotted clinical laboratory tests under the supervision of senior medical technologist on the collected samples * Reported actual or potential deviation in the sample results obtained from standard testing procedures * Performed dipstick and microscopic analysis of urine samples * Prepared reagents, quality control, and patient samples for lab testing in the areas of coagulation, haematology and clinical chemistry.   **Education** **and Training**   * Doctor of Philosophy (Ph.D) - Biochemistry - 2005-2009   University of Madras, Chennai, India   * Master of Philosophy (M.Phil.,) - Biochemistry - 2002-2003   Bharathidasan University, Trichy, India   * Master of Science (M.Sc.,) - Biochemistry - 1999-2001 Bharathidasan University, Trichy, India * Bachelor of Science (B.Sc.,) **–** Medical Laboratory and Biochemistry 1996-1999 Bharathidasan University, Trichy, India.   **Awards and Fellowships**   * DBT Research Associate Programme Award from Department of Biotechnology (DBT), Government of India. * Eurasia Pacific Uninet Scholarship from University of Veterinary Medicine Vienna, Austria. * Post-Doctoral Scholarship awarded from Embassy of France in India   **Journal Reviewer and Editorial Board Member**   * Human and Experimental Toxicology, Journal of Veterinary science and Technology * Asian Pacific Journal of Tropical Biomedicine, Breast Cancer: Targets and Therapy * Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy * International Journal of Chronic Obstructive Pulmonary Disease * Journal of Experimental Pharmacology, Journal of Hepatocellular carcinoma * Journal of Inflammation Research, Research and Reports in Biology * Oxidant and Antioxidant in Medical sciences, Current Research: Integrative Medicine (CRIM) |