



جامعة الخليج العربي
ARABIAN GULF UNIVERSITY

Job Title: Cytogenetics Laboratory Head

Department: College of Medicine & Health Sciences - AL-Jawhara Center - Cytogenetics Laboratory

Reporting to: Al Jawhara Medical Director

Job Summary

The Head of the Cytogenetics Laboratory provides strategic, technical, and administrative leadership for all cytogenetic diagnostic services, including constitutional and oncology testing. The role ensures accurate, timely, and high-quality karyotyping, FISH, and related analyses to support optimal patient care. This position oversees laboratory personnel, workflow management, quality systems, procurement, and accreditation compliance. The Head ensures continuous improvement, operational efficiency, and clinical excellence in all aspects of the cytogenetics service.

Key Responsibilities

- Perform specimen processing, culture initiation, harvesting, slide preparation, and staining for karyotyping.
- Conduct chromosome banding, karyotyping, and digital image analysis using cytogenetics software.
- Perform FISH testing with appropriate probes and document results.
- Maintain laboratory records, worksheets, and electronic data entry in LIMS.
- Follow SOPs and quality assurance procedures to ensure accurate results.
- Participate in laboratory quality control, audits, and accreditation compliance.



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- Maintain laboratory equipment and report technical issues.
- Collaborate with colleagues and communicate with supervisors regarding urgent cases.
- Follow biosafety and infection control standards at all times.

Job Requirements

- Master's degree in Cytogenetics, Clinical Laboratory Genetics, Molecular Genetics, Biomedical Sciences, Molecular Medicine, or a closely related field (required).
- PhD, MD, or fellowship certification in Cytogenetics/Clinical Laboratory Genetics (preferred).
- Professional certification such as (ASCP, ABDGG, EBMG), or national equivalent. (preferred)
- Valid national clinical laboratory license. (preferred)
- Minimum 7–10 years of hands-on experience in clinical cytogenetics.
- Minimum 3–5 years experience in a supervisory or leadership role.
- Proven expertise in diagnostic workflow management, LIMS systems, and accreditation processes (CAP, ISO, NHRA).

Competencies

- Good communication and interpersonal skills
- Scientific methods, critical thinking, teamwork, and interpersonal skills



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- Advanced technical skills and proficiency in cytogenetics, FISH, troubleshooting, and result interpretation.
- Strong leadership, team management, and communication skills.
- Excellent problem-solving abilities and commitment to quality improvement.
- Ability to manage budgets, procurement, and high-volume laboratory operations.
- Strong organizational skills and ability to work under pressure with tight deadlines.
- Effective communication with clinicians, staff, and administrators.