# Introductory to Cytogenetics GUIDED TRAINING

## Professional Growth and Learning

### Introduction

Professional and Development Programs at King Faisal Specialist Hospital & Research Centre (KFSH&RC) are designed to enhance the skills and knowledge of healthcare professionals and other related disciplines. These programs aim to ensure that staff remain up-to-date with the latest medical practices, technologies, and research advancements. Through a variety of workshops, training sessions, and certifications, KFSH&RC fosters continuous learning and professional growth, ultimately improving patient care and hospital services.

### Overview of On-The-Job Training (OJT) Programs

On-The-Job Training Programs at King Faisal Specialist Hospital & Research Centre (KFSH&RC) are designed to provide employees with hands-on experience in their specific fields while they work. These programs aim to enhance practical skills and ensure that staff are fully equipped to handle their responsibilities effectively. By integrating training directly into the workplace, KFSH&RC ensures that employees can apply what they learn immediately, leading to improved performance and a more efficient work environment.

### Apprenticeship Training Programs (ATP)

The Structured Apprenticeship Training Program (ATP) at King Faisal Specialist Hospital and Research Centre (KFSH&RC) is a premier on-the-job training initiative. This program is meticulously designed to enhance the knowledge and skills required in specialized areas, ensuring participants become highly qualified professionals. KFSH&RC's ATP program is delivered by expert preceptors who use state-of-the-art equipment and technology to provide an engaging and comprehensive learning experience. The program duration ranges from one week to six months, offering a structured training plan that encompasses all the essential competencies needed for success in your field.

### ATP Program:

### Introductory to Cytogenetics Guided Training

**Program Overview:**
The Introduction to Cytogenetics Training Program is meticulously designed to provide trainees with foundational knowledge and practical skills essential for a career in clinical cytogenetics. This program offers an in-depth exploration of both traditional Cytogenetics and Molecular Cytogenetics, preparing participants to become proficient professionals in the cytogenetics workforce. Trainees will learn to recognize and apply various cytogenetic techniques, including prenatal and postnatal specimen processing, tissue culture, and Fluorescence in Situ Hybridization (FISH). Additionally, the program emphasizes developing skills in chromosome analysis for postnatal samples and identifying constitutional abnormalities. Trainees will also be trained to use the International System

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for Human Cytogenomic Nomenclature (ISCN) to describe simple and common chromosomal aberrations effectively, ensuring they are well-equipped for the complexities of clinical cytogenetics practice.

**Program Objectives:**

By the end of the training, participants will:

- Explain the basic principles of Cytogenetics and Molecular Cytogenetics
- Recognize cytogenetics techniques including pre-natal and post-natal specimen processing and tissue culture and FISH (part of hands-on training)
- Demonstrate basic skills in analyzing chromosomes for post-natal samples and constitutional abnormalities
- Apply International System for Human Cytogenomic Nomenclature (ISCN) for simple and common chromosome aberrations

**Acceptance Criteria:**

- A new employee with / without 1-year experience
- Bachelor's Degree in Applied Medical Sciences (Clinical Laboratories) or equivalent recognized by the Saudi Health Commission
- Passing the Pre-Assessment Test

**Duration:**

- Two months.

**Benefits:**

- Medical coverage as per hospital policy.
- Certificate of completion.

**Fees:**

- 2,000 SAR per month (excluding 15% VAT).

**Contact Information:**

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**Apply via QR Code:**