



St John

ST. JOHN EYE HOSPITAL – JERUSALEM

ST JOHN EYE HOSPITAL GROUP

PART-TIME

**Molecular Biology
Lab Technician**

JOB DESCRIPTION

Title	Molecular Biology Lab Technician
Department	Allied Health Professions
Section	Hospital
Reports to	Director of Nursing and Allied Health Professions / Dr Talbishi
Hours	As contractually agreed
Date formulated	March 2017
Last Updated	December 2018 / December 2020 / December 2022
Next Review Date	December 2024

General Statement of Duties:

The Molecular Biology lab technician will work in the genetics research lab to perform the regular daily work within this lab which includes all kinds of molecular biology techniques.

The technician will need to cooperate with the head of the genetics research lab to help in the Risk assessment for hereditary eye disease & genetic counselling of patients with these diseases depending on the expected mode of inheritance & available genetic data. This also includes Assistance in the Diagnosis of many Retinal & ophthalmic hereditary disorders in cooperation with clinicians & other partner labs.

Main Responsibilities:

1. DNA & RNA extraction from various cells and tissue sources
2. Polymerase Chain Reaction (PCR)
3. Gel electrophoresis
4. DNA/RNA sequencing
5. Western blot & Immunohistochemistry techniques.
6. Cell culture techniques including leucocyte cell lines & lymphoblastoid cell lines.
7. Analyses and interpretation of results of sanger sequencing, Whole exome analysis & other tests results.
8. Bioinformatics analysis.
9. Searching for new genes causing Hereditary eye diseases through a systemic approach.

General Responsibilities:

- All staff are expected to report for work on time and fulfil their hours of duty, from time to time some flexibility may be required in order to meet the needs of the job and this may be outside regular hours of work.
- All staff are expected to promote and contribute to a cooperative and productive work environment. Staff are also expected to show respect and consideration to their colleagues and all patients and visitors to the hospital.
- All staff are expected to follow the dress code for their area of work. All uniforms as required by different work areas should be worn at all times. Staff who do not have a uniform are expected to wear appropriate, respectful, modest business dress. Jeans are not considered appropriate attire.
- The hospital is a no smoking hospital and smoking is only permitted in the designated smoking areas and only during official break periods.
- All staff will abide by confidentiality rules and will not disclose any information about patients, the staff or the workings of the hospital, except in certain circumstances where express permission is given as per the Confidentiality Policy.
- All staff are expected to comply at all times with the requirements of Health and Safety regulations and to take responsibility for the health and safety and welfare of others in the working environment ensuring that agreed safety procedures are carried out to maintain a safe environment.
- The Hospital has a Control of Visits in the Hospital and Security of Workers policy in order to help protect patients, visitors and staff and to safeguard their property. All employees have a responsibility to ensure that those persons using the Hospital and its service are as secure as possible.
- The Hospital is committed to equality and all staff are expected to treat colleagues, patients and visitors to the Hospital with dignity and respect, regardless of their ethnic background, religion, race, gender, age or sexual orientation.

- All staff are expected to familiarise themselves with the requirements of the Hospitals policies and procedures for staff and also their specific area of work.
- All appointments within the Hospital are subject to pre-employment health screening.
- All staff are responsible for ensuring that all risks of cross infection to patients are minimised and that all policies, procedures and guidance relating to infection control practice are adhered to.
- All staff are responsible, where relevant, for ensuring that all equipment used by patients is clean/decontaminated as instructed by manufacturers and in line with the infection control/guidelines protocol and policy.
- The job description gives a general outline of the duties of the position and is not intended to be an inflexible or finite list of tasks. It may be varied, from time to time, after consultation with the member of staff.
- Any other duties as designated by your manager and which are commensurate with the grade.

Essential Requirements for the Post:

Essential

- A baccalaureate degree in a scientific discipline:
 - Biology
 - Biochemistry
 - Diagnostic genetics
 - Molecular biology or
 - Medical technology
 - OR from an approved molecular genetics educational program
- Preferable Certification in molecular genetics from a recognized university.
- Minimum 1 year of experience in a molecular biology research lab or a clinical genetics lab (this should have included PCR & sequencing analysis , DNA & RNA extraction , cell line growth, IHC , western blot & other molecular biology techniques).
- Good computer skills including office (word, excel, PowerPoint) & experience in referring to known genetics websites for research purposes & analysis of results.
- Preferable experience in the field of Bioinformatics & analysis of whole exome results.
- Ability to work in a team & flexibility in working hours according to the needs of the lab.
- Willingness to teach junior staff & students.
- Fluent English language
- Ability to work independently
- Organizational skills
- Attention to details
- Fine instrument manipulation

Desirable

- Master degree in Genetics & molecular Biology is preferable
- Research experience
- Motivation to do research & ability to plan projects in the field of ophthalmic genetics.
- Hebrew language is an extra qualification
- Good relations & connections with other local or international genetics research labs are helpful for proposing collaboration projects in the future.

Name:

Date: December 2024

Signed _____