



## **Announcement of Competitive Exam for Graduate Students – College of Medicine**

**Department:** Medical Genetics

**Test location for male and female students:** Faculty of  
Medicine – Male Section

**Time:** Thursday, 12:30 PM to 2:30 PM

**Date:** Thursday, 20-11-1447 AH / 07-05-2026 AD.

**Location:** Building (2) – Second Floor – Auditorium (210/2)

### **Track 1: Molecular Human Genetics**

TOM STRACHAN AND ANDREW READ. **HUMAN MOLECULAR GENETICS**. 4<sup>th</sup> Edition or  
5<sup>th</sup> Edition. ISBN-13: 978-0815341499, ISBN-10: 0815341490

<https://drive.google.com/drive/folders/1MrpX3imR0iEbAFBL6RuG2C9SOVNDdbB05?usp=sharing>

**Recommended chapters are:**

- |            |   |
|------------|---|
| Chapter 1  | Nucleic Acid Structure and Gene Expression                  |
| Chapter 2  | Chromosome Structure and Function                           |
| Chapter 6  | Amplifying DNA: Cell-based DNA Cloning and PCR              |
| Chapter 7  | Nucleic Acid Hybridization: Principles and Applications     |
| Chapter 8  | Analyzing the Structure and Expression of Genes and Genomes |
| Chapter 9  | Organization of the Human Genome                            |
| Chapter 11 | Human Gene Expression                                       |



**Chapter 12 Studying gene function in the post-genome era**

**Track 2: Genetic Counseling**

Emery's Elements of Medical Genetics And Genomics 16<sup>th</sup> Edition 2022 . by Peter Turnpenny ,  
Sian Ellard and Ruth Cleaver. Elsevier. ISBN:978-0-702-079665

**Recommended chapters are:**

- Chapter 2 The cellular and molecular basis of inheritance**
- Chapter 3 Chromosomes and cell division**
- Chapter 6 Patterns of inheritance**
- Chapter 10 Common disease, polygenic and multifactorial genetics**
- Chapter 17 Chromosome disorders**
- Chapter 21 Genetic counseling**
- Chapter 22 Ethical and legal issues in medical genetics**

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