

## **ELISA,ELECTROPHORENSIS(SDS &NATIVE PAGE),DNA/RNA AND WESTERN BLOTTING**

**4<sup>th</sup> – 8<sup>th</sup> MARCH 2024**

Chrom Africa offers an outstanding platform for training on Polymerase Chain Reaction- Enzymes-linked Immunosorbent assay(PCR-ELISA) which is a commonly used analytical and biochemistry assay and or diagnostic tool in medicine,plant pathology,biotechnology and quality control check in various industries

### **Suitability**

This course is suitable for researchers, scientists, laboratory analysts, graduate students and postgraduate students who have a background in molecular biology/biotechnology,analytical chemistry or biochemistry, who are interested in learning more about the practical aspects of the course.

<b>DAY 1 (09.00-10.00)</b>	<b>Theoretical overview of Immunological Techniques.</b> <ul style="list-style-type: none"> <li>● Registration and Orientation</li> <li>● Direct ELISA and Indirect ELISA</li> </ul>
<b>10.00-10.30</b>	<b><i>Tea Break</i></b>
<b>11.00-12.30</b>	<ul style="list-style-type: none"> <li>● PCR-ELISA and its application</li> </ul>
<b>12.30-14.00</b>	<b><i>Lunch Break</i></b>
<b>14.00 -16.30</b>	<ul style="list-style-type: none"> <li>● Critical Instrumentation: analogue versus automated platforms.</li> </ul>
<b>DAY 2 (9.00-10.30)</b>	<b>Knowing your equipment and its capabilities.</b> <ul style="list-style-type: none"> <li>● Configuring and using analogue Plate washer and Plate readers.</li> </ul>
<b>10.30-11.00</b>	<b><i>Tea Break</i></b>
<b>11.00-12.30</b>	<ul style="list-style-type: none"> <li>● Programming and PCR-ELISA demo run on DS2.</li> </ul>
<b>12.30-14.00</b>	<b><i>Lunch Break</i></b>
<b>14.00-16.30</b>	<ul style="list-style-type: none"> <li>● Programming and demo qPCR demo run on Rotor-GeneQ.</li> </ul>
<b>DAY 3 (9.00-10.30)</b>	<b>PCR-ELISA versus Conventional PCR and qPCR</b> <ul style="list-style-type: none"> <li>● Diagnostic Tests for selected Infectious Diseases using PCR-ELISA, PCR and qPCR</li> </ul>
<b>10.30-11.00</b>	<b><i>Tea Break</i></b>

11.00-12.30	<ul style="list-style-type: none"><li>● Continuation;Diagnostic Tests for selected Diseases using PCR-ELISA and qPCR</li></ul>		
12.30-14.00	Lunch Break		
14.00-15.30	<ul style="list-style-type: none"><li>● Mandatory Quality Control issues in PCR-ELISA</li></ul>		
DAY 4 (9.00-10.30)	Application of PCR-ELISA in various fields of biomedicine <ul style="list-style-type: none"><li>● PCR-ELISA technique for detection of food-borne pathogens.</li></ul>		
10.30-11.00	Tea Break		
11.00-12.30	<ul style="list-style-type: none"><li>● PCR-ELISA technique for detection of human and animal viruses.</li></ul>		
12.30-14.00	Lunch Break		
14.00-15.30	<ul style="list-style-type: none"><li>● PCR-ELISA technique for detection of plant pathogens.</li><li>● PCR-ELISA technique for detection of cancer cells</li></ul>		
DAY 5 (9.00-10.30)	Expanding the PCR-ELISA Toolbox <ul style="list-style-type: none"><li>● Multiplexing with PCR-ELISA.</li></ul>		
10.30-11.00	Tea Break		
11.00-12.30	<ul style="list-style-type: none"><li>● Two-step strategies</li></ul>		
Lunch Break	12.30-14.00		
14.00 – 15.00	<ul style="list-style-type: none"><li>● Asymmetric PCR-ELISA.</li><li>● Closing ceremony and issuance of certificates</li></ul>		
Date:4 <sup>th</sup> – 8 <sup>th</sup> March,2024 Deadline 23 <sup>rd</sup> February,2024		Cost Kes. 92,800.00 or USD 928.00	KISUMU

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