



Bringing Scientific & Technical  
Resources to the African Continent

**Chrom Africa Instrumentation Services Limited**  
Buruburu Business Complex Suite No.26, Mumias South Road,  
Nairobi. P.O Box 4963-00100, Nairobi, Kenya.

## 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>	<i>Tea Break</i>
<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>	<i>Lunch Break</i>
<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>	<i>Tea Break</i>
<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>	<i>Lunch Break</i>
<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>	<i>Tea Break</i>

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

Telephone: +254 – (20)2594918 | US Operations: St. Paul, Min, USA Telephone: +1 651-731-3670  
[www.chromafrika.com/](http://www.chromafrika.com/) [www.chromafrika.co.ke](http://www.chromafrika.co.ke) | [info@chromafrika.co.ke](mailto:info@chromafrika.co.ke)/[info@chromafrika.com](mailto:info@chromafrika.com)