

SCHEDULE

POSTCONGRESS COURSE

**MOLECULAR BIOLOGY TOOLS FOR THE IDENTIFICATION OF
MICROORGANISMS**

October 29th - 31st, 2018

Day 1: Monday, October 29th, 2018			
Time	Program	Speaker	Place
8:30 - 8:45	Registration	Lorena Monserrate, Blga.	CIBE Auditorium
8:45 - 9:00	The importance of microorganisms in Biotechnology	Juan Manuel Cevallos, Ph.D.	CIBE Auditorium
9:00 - 10:00	Sampling considerations for DNA extraction from microorganisms	Juan Manuel Cevallos, Ph.D. Diego Quito, Ph.D.	CIBE Auditorium
10:00 - 10:30	Basics of DNA extraction	Lorena Monserrate, Blga.	CIBE Auditorium
10:30 - 10:45	Receso		
10:45 - 12:30	DNA Extraction from soil and water samples- Practice session 1	Lorena Monserrate, Blga. Susana Llivisaca, M.Sc.	Microbiology Lab
12:30 - 13:30	LUNCH		
13:30-15:30	DNA Extraction from soil and water samples -Practice session 2	Lorena Monserrate, Blga. Susana Llivisaca, M.Sc.	Microbiology Lab
15:30-16:30	Total DNA quantification	Gabriela Maridueña, M.Sc. Juan Francisco Cornejo, M.Sc.	Microbiology Lab
16:30-16:45	Extracting DNA from cultured microorganisms	Miriam Villavicencio, M.Sc.	CIBE Auditorium
16:45-17:00	Highlights and Q&A session	Freddy Magdama. Ph.D.	CIBE Auditorium

Day 2: Tuesday, October 30th, 2018			
Program	Program	Program	Program
8:30 - 10:15	Extracting DNA from fungi and bacteria isolates. Practice session 1	Miriam Villavicencio M.Sc. Adela Quevedo, Blga.	Microbiology Lab
10:15 - 10:30	Break		
10:30 - 12:15	Extracting DNA from fungi and bacteria isolates. Practice session 2	Miriam Villavicencio M.Sc. Adela Quevedo, Blga.	Microbiology Lab
12:15 - 13:15	LUNCH		
13:15 - 14:15	DNA quantification	Gabriela Maridueña, M.Sc. Juan Francisco Cornejo, M.Sc.	Microbiology Lab
14:15 - 16:15	Explaining PCR, Electrophoresis and Sanger Sequencing technologies	Freddy Magdama, Ph.D.	CIBE Auditorium
16:15 - 16:30	Break		
16:30 - 17:30	Introduction to NGS	Efrén Santos, Ph.D.	CIBE Auditorium
17:30 - 18:00	Bioinformatics tools for the analysis of NGS sequences	Efrén Santos, Ph.D.	CIBE Auditorium

Day 3: Wednesday, october 31st, 2018			
Program	Program	Program	Program
8:30 - 10:00	PCR -practice session	Fernando Espinoza, Ing. Lili Villao, Blga.	Microbiology Lab
10:00 - 10:15	Break		
10:15 - 12:15	Electrophoresis- practice session	Lili Villao, Blga. Ricardo Pacheco, Ing.	Microbiology Lab
12:15 - 13:15	LUNCH		
13:15 - 15:15	Bioinformatics tools for processing and analyzing sanger sequences	Freddy Magdama, Ph.D.	CIBE Auditorium
15:15-15:30	Break		
15:30-17:30	Bioinformatics tools for processing and analyzing sanger sequences- Hands on session	Freddy Magdama, Ph.D. Fernando Espinoza, Ing. Lizette Serrano, Ing.	CIBE Auditorium
17:30-18:00	Highlights and closure	Efrén Santos, Ph.D.	CIBE Auditorium