

# Ph.D. in CELLULAR and MOLECULAR BIOLOGY

GRADUATE PROGRAM in BIOMEDICAL SCIENCES  
UNIVERSIDAD CENTRAL DEL CARIBE  
SCHOOL of MEDICINE

Sample program of study for a student with a research interest in

## MICROBIOLOGY AND IMMUNOLOGY

Course Code	Course Title	Credits
BMS 500	Responsible Conduct of Research	1
BMS 510F	Biochemistry and Cell Biology	10
BMS 512	Critical Thinking	1
BMS 523A	Molecular Biology I	2
BMS 524	Molecular Biology II	2
BMS 820C	Medical Bacteriology	2
BMS 821B	Immunology	3
BMS 822	Parasitology	2
BMS 824B	Cellular and Molecular Microbiology	3
BMS 825	Mycology	2
BMS 826A	Virology	3
BMS 829A	Diagnostic Bacteriology	3
BMS 859	Seminar in Microbiology and Immunology	1
BMS 860	Scientific Methodology	2
BMS 861A	Biostatistics	3
BMS 862	Research Laboratory Rotations	1
BMS 899	Graduate Research	31
Total		72

### Research Projects

- Immunomodulator-Mediated Enhancement of Anti-HIV-Specific Immune Response
- Proteomic Approach for the Identification of PAI-induced PBMC and CD8+ T Cells anti-HIV Mechanism
- Ex Vivo Effect of Methadone Use and Withdrawal on Immune Function and HIV-1 Replication of CD4+ T-Cells from Chronic Methadone Patients

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