

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

BIOCHEMISTRY

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 523	Molecular Biology	3
BMS 815	Protein Structure and Function	2
BMS 816	Gene Expression and Protein Synthesis	2
BMS 817	Signal Transduction	2
BMS 819	Seminar in Biochemistry	1
BMS 823	Cell Culture	2
BMS 831	Membrane Transport	2
BMS 860	Scientific Methodology	2
BMS 861A	Biostatistics	3
BMS 862	Research Laboratory Rotations	1
BMS 899	Graduate Research	40
Total		72

Research Projects

- Analysis Of Acetylcholine Receptor Subunit
- Protection Against Organophosphate Neurotoxins By Tobacco Cembranoids
- Functional Role Of Potassium Channels In Astrocytes
- Polyamine Signaling via Glial Connexin-43 Hemichannels in Retina
- Neuroprogenitor Cells combined with Antiapoptotic Treatment as Stroke Therapy
- Anti-cancer properties of Reishi mushroom in inflammatory breast cancer progression
- Understanding invasion and metastasis in inflammatory breast cancer
- Hypoglycemic effects of plant extract formulations used in Puerto Rico as diabetes adjuvants

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