

CELL AND MOLECULAR BIOLOGY

programs/interdisciplinary-studies/cell-molecular-biology/phd-cell-molecular-cancer-biology-specialization/)

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The Cell and Molecular Biology graduate program is an interdisciplinary degree-granting program involving over 100 faculty members from 17 departments and 6 colleges who share common interests in cell and molecular biology. The program offers training leading to the M.S. and Ph.D. degrees in Cell and Molecular Biology; in addition, Ph.D. students have the option to include a Cancer Biology Specialization. The program includes a core comprising coursework in molecular genetics and cell biology. Elective courses cover specialized areas, including grant writing, ethical conduct of research, and statistics. Two alternating graduate seminar series allow students to present their research and attend presentations by CSU faculty and nationally prominent scientists. The M.S. degree can be completed within two years, and the Ph.D. degree within five years. Current research focus areas include, but are not limited to, Cancer Biology; Gene Expression; Genome Structure, Evolution & Repair; Infectious Disease; Metabolism & Physiology; Microbiomes; Plant Molecular Biology; Prions & Neurobiology; Stem Cells & Development; Synthetic Biology and STEM Communication. Students are encouraged to complete coursework in computational/quantitative approaches, emphasizing effective communication with a range of audiences. The CMB program supports a student association and aims to create an inclusive and welcoming culture for all.

Students interested in this graduate program should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>) and the Cell and Molecular Biology (<https://cmb.colostate.edu/>) website for further details.

Graduate Certificate

- Graduate Certificate in Microbiome Science and Engineering (<https://catalog.colostate.edu/general-catalog/university-wide-programs/interdisciplinary-studies/cell-molecular-biology/microbiome-science-engineering-graduate-certificate/>)

Master's Programs

- Master of Science in Cell and Molecular Biology, Plan A and Plan B (<https://catalog.colostate.edu/general-catalog/university-wide-programs/interdisciplinary-studies/cell-molecular-biology/ms-cell-molecular-biology/>)

Ph.D.

- Ph.D. in Cell and Molecular Biology (<https://catalog.colostate.edu/general-catalog/university-wide-programs/interdisciplinary-studies/cell-molecular-biology/phd/>)
- Ph.D. in Cell and Molecular Biology, Cancer Biology Specialization (<https://catalog.colostate.edu/general-catalog/university-wide-programs/interdisciplinary-studies/cell-molecular-biology/phd-cell-molecular-cancer-biology-specialization/>)