

# DEPARTMENT OF CELLULAR, MOLECULAR AND GENETIC MEDICINE

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The Department of Cellular, Molecular and Genetic Medicine is home to a wide range of research and training programs focused on understanding fundamental mechanisms underlying health and disease. Faculty, postdocs, students and staff use a variety of modern experimental strategies to probe the cellular, molecular and genetic processes that are key to cancer, metastasis, lipid metabolism and neurodegenerative disease. Additionally, faculty lead multiple core facilities that support research in laboratories both within the department and across the university. Furthermore, the department is home to training opportunities for postdocs as well as graduate students in eight academic programs collectively leading to certificate, M.S. and Ph.D. degrees.

The department provides a strong collegial atmosphere where faculty, students, postdoctoral fellows and administrators work together to promote and share in the discovery of fundamental principles governing life processes.

Students who complete the requirements for the below will receive a Doctor of Philosophy in Biochemistry.

- Biochemistry, Doctor of Philosophy (Ph.D.) (<https://bulletin.vcu.edu/graduate/school-medicine/biochemistry-phd/>)

Students who complete the requirements for the below will receive a Master of Science in Biochemistry.

- Biochemistry, Master of Science (M.S.) (<https://bulletin.vcu.edu/graduate/school-medicine/biochemistry-ms/>)

Students who complete the requirements for the below will receive a Master of Science in Genetic Counseling.

- Genetic Counseling, Master of Science (M.S.) (<https://bulletin.vcu.edu/graduate/school-medicine/genetic-counseling-ms/>)

Students who complete the requirements for the below will receive a Doctor of Philosophy in Human Genetics.

- Human Genetics, Doctor of Philosophy (Ph.D.) (<https://bulletin.vcu.edu/graduate/school-medicine/human-genetics-phd/>)
- Human Genetics, Doctor of Philosophy (Ph.D.) with a concentration in quantitative human genetics (<https://bulletin.vcu.edu/graduate/school-medicine/human-genetics-phd-concentration-quantitative-human-genetics/>)

Students who complete the requirements for the below will receive a Master of Science in Human Genetics.

- Human Genetics, Master of Science (M.S.) (<https://bulletin.vcu.edu/graduate/school-medicine/human-genetics-ms/>)
- Human Genetics, Master of Science (M.S.) with a concentration in genomic data science (<https://bulletin.vcu.edu/graduate/school-medicine/human-genetics-ms-concentration-genomic-data-science/>)

## Dual degree opportunities

- Human Genetics, Doctor of Philosophy (Ph.D.)/Genetic Counseling, Master of Science (M.S.) (<https://bulletin.vcu.edu/graduate/dual-degree-opps/phd-hgen-ms-gen-couns/>)

Students who complete the requirements for the below will receive a Doctor of Philosophy in Physiology and Biophysics.

- Physiology and Biophysics, Doctor of Philosophy (Ph.D.) (<https://bulletin.vcu.edu/graduate/school-medicine/physiology-biophysics-phd/>)

Students who complete the requirements for the below will receive a Master of Science in Physiology and Biophysics.

- Physiology and Biophysics, Master of Science (M.S.) (<https://bulletin.vcu.edu/graduate/school-medicine/physiology-biophysics-ms/>)