Medical Genetics

Bachelor of Science (BSc) Genetics

University of Otago
ŌTĀKOU WHAKAIHU WAKA

Description

Understand the genetic basis of diseases, human genetic variation, and the molecular mechanisms underlying health and illness.

Research Focused:

- Gain skills to investigate genetic factors contributing to diseases.
- Develop novel therapies and contribute to advancements in precision medicine.

People Focused:

- Learn about the role of genetic counsellors in providing advice on genetic diseases.
- Help families make informed decisions on genetic testing and understand the results.
- Pathway to becoming a genetic counsellor through professional accreditation.

Recommended structure

100-level

Core papers:
CHEM 191
CELS 191

Suggested papers:
BIOC 192
HUBS 191 or 192
MAOR 102
POPH 192
STAT 110 OR 115

200-level

Core papers:
GENE 221
GENE 222
GENE 223

Suggested papers:
ANAT 243 or 241
BIOC 221
MAOH 201
PACH 201
PATH 201

300-level

Core papers:
GENE 313
GENE 314
GENE 315

Suggested papers:
BIOC 352
BITC 301
MAOH 301
PACH 301
PATH 302
GENE 360*

Suggested minors: Research focused: Pathology, Biochemistry, Anatomy | People focused: Māori health, Bioethics, Psychology, Pacific & Global Health, Community & Health Care.

*Recommended for GENE majors planning to go on to post-graduate studies such as BSC (Hons), PgDipSci, MSc and PhD.

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