UNIVERSITY OF ALBERTA

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MEDICAL GENETICS
FACULTY OF MEDICINE & DENTISTRY

8-39 Medical Sciences Building
Edmonton, Alberta, Canada T6G 2H7
Tel: 780.492.0874
Fax: 780.492.1988
www.medgen.ualberta.ca

Canadian College of Medical Geneticists (CCMG) Fellowship training in Clinical Genetics or Clinical Biochemical Genetics

Clinical and Biochemical Genetics focuses on the comprehensive diagnosis, management, treatment, risk assessment, and counseling of patients who have or are at risk for having genetic disorders, inborn errors of metabolism or disorders with a genetic or biochemical component.

The Department of Medical Genetics at University of Alberta is an accredited training site for the Canadian College of Medical Geneticists (CCMG; CCMG | CCGM Home - CCMG | CCGM (ccmg-ccgm.org)), offering fellowships for physicians and lab scientists in the specialties of Clinical Genetics, Clinical Biochemical Genetics (Metabolics), Laboratory Biochemical Genetics and Genetic and Genomic Diagnostics (GGD).

This Fellowship is for physicians who have completed a Royal College of Physicians and Surgeons of Canada (RCPSC) accredited residency program, Collège des Médecins du Québec (CMQ), or international equivalent and are interested in advanced training in clinical care and research in Medical Genetics. After successful completion of this fellowship, trainees are eligible to sit for the examination leading to certification by the CCMG. Complete descriptions of the training program guidelines, requirements, current program directors and application deadlines may be found on the CCMG website (https://www.ccmg-ccgm.org/training-credentials-examinations/).

Training program summaries

Clinical Programs

Clinical Genetics – Clinical Genetics is a 3-year training program focusing on producing physicians competent in diagnosing, counseling, and managing individuals of all ages with genetic disease. Applicants to this training program must have an MD or equivalent (e.g., MBBS), and at least three years postdoctoral training (Royal College of Physicians and Surgeons of Canada (RCPSC) accredited residency program, Collège des Médecins du Québec (CMQ), or international equivalent). For additional information about this program or to submit an application for training at our site please contact Dr. Oana Caluseriu (oana.caluseriu@albertahealthservices.ca).

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Our genetics training programs integrate clinical and research experiences at the University Hospital, Royal Alexander Hospital, Stollery Children's Hospital, and the University of Alberta. We offer a three-year integrated Fellowship leading to CCMG eligibility in Medical Genetics. During the training period, Fellows will be exposed to prenatal, adult and paediatric genetics. Specific time will also be dedicated to learning the core principles of laboratory genetics pertaining to clinical practice.

Clinical services

- Adult Genetics
- Cancer genetics
- Paediatric Genetics including inborn errors of metabolism
- Prenatal Genetics
- Specialty clinics include hearing loss, neurogenetics, skeletal genetics, connective tissue disorders, brain malformations, epilepsy, congenital heart disease etc.

Educational experiences

Trainees have a variety of educational experiences:

- Weekly Genetics Grand Rounds
- Weekly didactic lectures, taught by faculty in the division
- Opportunities to teach and interact with other trainees
- Didactic experiences within various rotations (see above)
- Presentation and meeting opportunities
    - Clinical trainees are expected to attend at least one meeting during their final year of training:

        Canadian College of Medical Geneticists meeting
        David W Smith Dysmorphology meeting
        American College of Medical Genetics meeting
        American Society of Human Genetics meeting

Research program

The trainee may choose from many research opportunities in the following areas: molecular genetics, cytogenetics, biochemical genetics, skeletal genetics, neurogenetics, prenatal diagnosis and dysmorphology. Trainees are expected to complete a major

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research project as the primary investigator with the aim of presenting their data at a major conference and submitting a manuscript for publication.

Clinical Biochemical Genetics
Clinical Biochemical Genetics (a.k.a. Metabolics) is a 2-year training program focusing on producing physicians competent in diagnosing, counseling, and managing individuals of all ages with inherited metabolic diseases.

The program duration may be shortened for individuals with previous training in Clinical Genetics, Molecular/Cytogenetic Laboratory, Research and Elective rotations. Applicants to this training program must have an MD or equivalent (e.g., MBBS) specialty in Genetics, Pediatrics, Internal Medicine or Medical Biochemistry (FRCPC qualified or Board eligible). For additional information about this program or to submit an application for training at our site please contact Dr. Shailly Jain (Shailly.Jain@albertahealthservices.ca).

Complete descriptions of the training program guidelines, requirements, current program directors and application deadlines may be found on the CCMG website (https://www.ccmg-ccgm.org/training-credentials-examinations/).

Diversity and Inclusion
The Department of Medical Genetics (Medical Genetics (ualberta.ca) believes that diversity and inclusion are key drivers of institutional excellence that can accelerate our ability to innovate and solve complex problems. The department is committed to developing and implementing strategies to foster a culture of inclusion in which highly qualified students, faculty and staff from diverse talent pools experience a genuine sense of belonging, engagement and achievement.

How to apply
Applications should include: 1) a current CV highlighting training, degrees, research history and publications, 2) a letter of interest that identifies factors that make you a strong candidate for consideration by our committee, and 3) a reference list of at least three individuals. Additional information may be requested by the committee after initial review.

1. Please send applications for the Fellowship in Clinical Genetics to: oana.caluseriu@albertahealthservices.ca

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Please send applications for the Fellowship in Clinical Biochemical Genetics to: Shailly.Jain@albertahealthservices.ca