How will Calgary become a world leader in the most exciting fields of medicine?



Together.

Together, we will move from treating diseases to treating people and creating healthy communities.

Advances in health are driven by investments in health research.



For half a century, the University of Calgary has created and grown a community of thought leaders and visionaries. This is the genesis of Energize: The Campaign for Eyes High, the drive to charge our campus community, our city and beyond for the next 50 years—unleashing the power of the Cumming School of Medicine to energize the future of health. And this power can only be unleashed together.

The University of Calgary's Cumming School of Medicine aspires to be a leader in Precision Medicine in Canada.

Precision Medicine means instead of one-size-fits-all treatments, we research, prevent disease and treat individuals based on their unique characteristics. Individual factors like genetics, lifestyle and diet will determine a personalized approach to your health. Thanks to the mapping of the human genome, the path to treating individuals with far greater success—and even completely ending the ravages of some diseases—is clear.

Take cancer, for example, one of society's most devastating diseases due to both its severity and punishing treatments. Research has revealed that many cancers have their own genomic signature. This has led to the development of targeted cancer therapies that have achieved remarkable outcomes.

It's these kinds of **bold advances in health research** that the Cumming School of Medicine is delivering, thanks to a combination of four factors:

People. Research. Partnerships. You.





Leaders are tackling the greatest challenges in medicine here in Calgary.

Medicine is about people, and the most advanced medicine takes the smartest people. Philanthropy has helped attract the kinds of people making breakthroughs right now. Leaders in their fields are following a **bold vision to create the future of health.** We are building the next generation of leaders here and around the world. More than 4,400 researchers, clinicians, educators and staff are engaged, responsive and committed to serving you and our communities, locally and globally.

Rising stars Recruiting the best and brightest health research innovators

Competition for top talent is challenging. Attracting the brightest minds requires an environment that spurs **innovation, discovery and collaboration**. We are attracting the best to Calgary—vibrant and visionary, top medical and postgraduate students, and future research leaders.

These **rising stars** will energize our areas of excellence: brain and mental health, cardiovascular and chronic diseases, among others.

Star students Educating the next generation of health leaders and visionaries

Students have the opportunity to be part of something incredible at the Cumming School of Medicine. From our Bachelor of Health Sciences program to our unique threeyear Undergraduate Medical Education program, to doctoral studies and postgraduate research opportunities, these all pave the way for students to become future leaders in health sciences. Our learners are uniquely prepared to take a strong role in creating the future of health.

Meet some of our people, our rising stars.

Photo opposite: Exchange students from China are some of the exciting researchers making their mark in Calgary and around the world.





 Dr. Michael Hill, stroke neurologist, Cumming School of Medicine

Cumming School of Medicine pioneers great ESCAPE for stroke patients.

A recent clinical trial led by the Cumming School of Medicine is one of five studies resulting in a change in stroke care. The breakthrough has the potential to improve the lives of hundreds of thousands of people worldwide who suffer strokes each year. The ESCAPE study involved removing a blood clot from a patient using guided imaging and reduces the mortality rate by 50 per cent. Instead of suffering from a major neurological disability, patients are able to resume their lives.

Photo: Dr. Michael Hill examines a stroke survivor.

doubled the likelihood for stroke victims to enjoy a better recovery.

The opportunities for us at the Cumming School of Medicine allowed us to continue our research in an environment that fosters collaboration and excellence."

 Dr. Jennifer Chan, neuropathologist, Cumming School of Medicine

Stepping up to the Cumming School of Medicine from Harvard.

There are many reasons why rising stars are finding their way to Calgary. For husband and wife clinician-scientists Drs. Eric Smith and Jennifer Chan, it was the school's international reputation that convinced them to trade Harvard for the Cumming School of Medicine. Dr. Chan is studying the biology of brain tumours as part of a national effort to improve the treatment of child and adolescent cancers. Dr. Smith's research focuses on the intellectual and behavioural conditions arising in patients with vascular dementia, with the hopes of developing new treatments and therapies.

Photo: Drs. Jennifer Chan and Eric Smith.

bring the best and brightest leaders to Calgary.



The foundation for your future health is research.

The best health outcomes demand having the right people in the right environment; one where active and curious students, researchers, creative thinkers and innovative problem-solvers work together. Breakthroughs occur when our efforts span the continuum — from research in the lab to the application of new methods of treatment or prevention in the community.

At the Cumming School of Medicine, philanthropy has been the catalyst for significant advances in key areas of research. To serve the needs of Calgarians and be a leader on the world stage, our focus is to expand and develop vital Precision Medicine platforms.

The health of our community depends on philanthropic investment in tools for research innovation:

 Transforming health through research centres of excellence: Centres in Genomics, Clinical Research and the Microbiome will host leaders whose work will uncover health risks, understand chronic disease and explore safe and targeted treatments.

- Technologies: New tools will advance our understanding and treatment of neurological disorders, chronic illness and other diseases.
- Bioinformatics: Combining computer science, statistics, mathematics and engineering to analyze, interpret and use vast amounts of information to improve health.



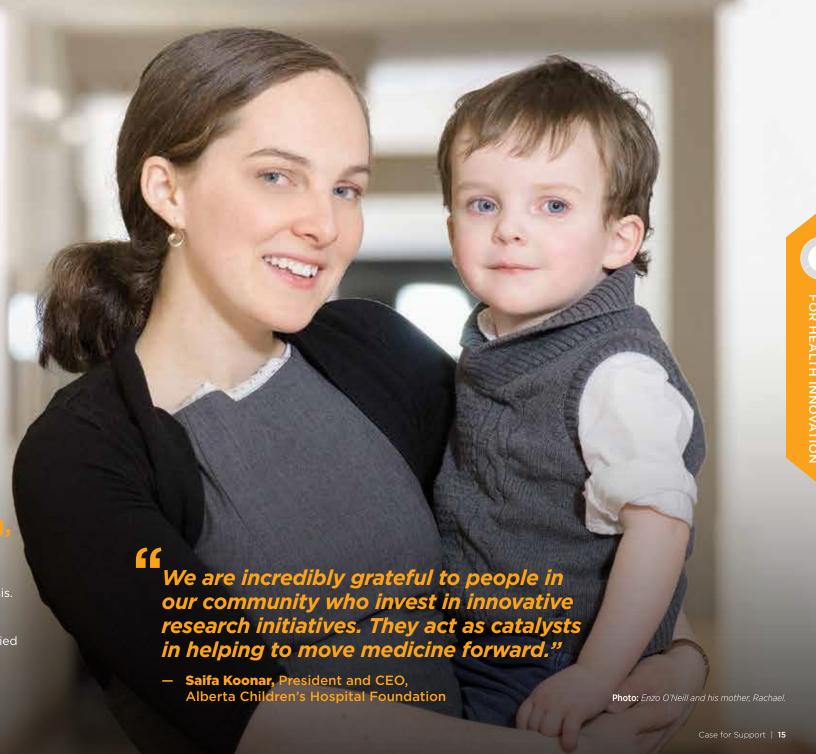


Photo opposite: Researchers at the Cumming School of Medicine are transforming our understanding of the most pressing health problems facing society.

Together, we will learn how your genes can influence your treatment.

When we discovered why Enzo stopped breathing, Enzo's mom could stop holding her breath.

Enzo O'Neill has a rare genetic disorder that stops his breathing several times per week. Before he was two, he had undergone hundreds of painfully invasive medical tests and still there was no diagnosis. So Enzo was enrolled in a Canadian research study using rapid DNA sequencing and analysis at the Cumming School of Medicine's Alberta Children's Hospital Research Institute. His genes were tested against every human genetic disorder known to science—all 4,800 of them—with one test. This identified the problem and opened the door to new treatment options for Enzo. As a result, Enzo's mom could start breathing again too.







Together, we

can get to a place

where your cancer

is treated before

single symptom.

you develop a

community leader

At the Cumming School of Medicine, cancer in run and it can't hide.

All cancers have one thing in common: a mistake in one's DNA. Inherited weaknesses in DNA repair are one of the major causes of cancers that run in families, such as those of the breast and colon. In the newly created Robson DNA Science Centre, a core group of DNA scientists are contributing to cancer prevention by studying how cells protect and repair DNA. The centre was made possible by a generous gift from Dave Robson—through the Dave and Val Robson Fund at the Calgary Foundation—to the Arnie Charbonneau Cancer Institute at the Cumming School of Medicine.

Photo: Donor Dave Robson, founder of the Robson DNA Science Centre.

Cumming School of Medicine | 16

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While society is made up of individuals, we exist together as a global community. We are part of a community where many struggle to achieve good health. We are committed to listening, learning and being respectful as we find solutions together. Everything we do at the Cumming School of Medicine has impact in the community — be it local or global.

Compassionate communities

- The Cumming School of Medicine is tackling societal health issues, like homelessness and aging. Reducing gaps in health reduces unnecessary suffering, improves societal well-being, and yields huge health care savings.
- Exploring refugee health support, palliative care for vulnerable populations and collaborating on care for those with major health challenges will lead to a healthier community for all.

Meeting the needs of specific communities

- At the Cumming School of Medicine, we partner with Alberta's Indigenous people to close the health services gap and improve wellness in Indigenous communities.
- Partnering with communities is helping to promote cultural safety and knowledge of policies related to health, and uses research to advocate for policy changes.

Dr. Jennifer Hatfield,Associate Dean, Strategic Partnerships and Community Engagement

Photo opposite: The Cumming School of Medicine works with Indigenous communities in Southern Alberta, including kidney prevention clinics in the Kainai First Nation. Together we are strengthening our commitment to Indigenous health, grounded in principles of social accountability, respect and equitable partnerships.







 Dr. Jenn Brenner, clinical associate professor, Cumming School of Medicine

Together, we will create a bright future of health for all.

Working with African colleagues and community members to save lives.

Dr. Jenn Brenner has led a university partnership called Healthy Child Uganda since 2003. The Calgary pediatrician and clinical associate professor at the Cumming School of Medicine works together with colleagues from Canada and Uganda to train local health providers, health managers and volunteer village ambassadors in rural southwestern Uganda. Projects target key local health challenges such as malaria, malnutrition, maternal death and deaths which take a terrible toll on women and young children. Together, Dr. Brenner's team, local leaders and community members are working to improve the lives of mothers and children in East Africa.

Photo: Dr. Jenn Brenner, clinical associate professor, with a mother and child in Uganda.



Together, we will energize the future of your health.

Our people, platforms and partnerships ARE that energy. Your support will fuel our potential to achieve excellence.

Our People, our Rising Stars - \$250 million

Recruiting leading researchers and clinicians will add some of the brightest minds in medical research to our team.

- Educators, clinicians and researchers are a critical component of our ability to advance health outcomes. Philanthropic support enhances our ability to attract and retain these visionaries.
- Dedicated support for start-up and research endeavours furthers discoveries and enables entrepreneurial pursuits.
- Scholarships, bursaries and awards fund tomorrow's medical and research leaders today.

Research Platforms for Health Innovation - \$350 million

We are on the cusp of countless pioneering medical discoveries. With your help, key research platforms will foster collaboration and drive innovation. Philanthropic investment will accelerate the development of solutions to the most complex health issues:

- Families will be given solutions to rare childhood diseases as we increase our efforts in genomics.
- **Imaging** technology and tools will help us better understand dementia, arthritis and cardiac diseases.

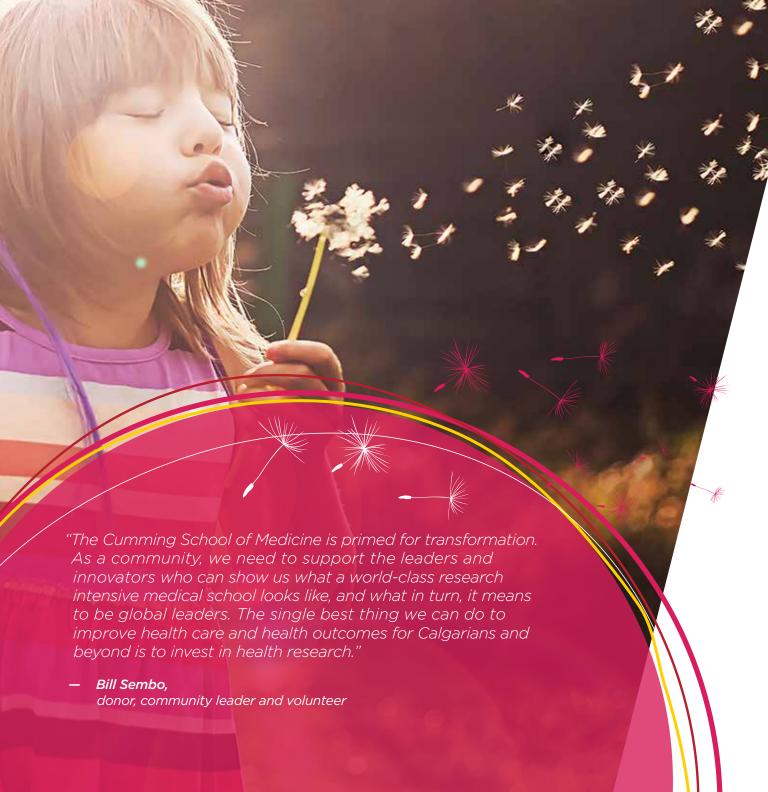
- Working with our Indigenous and underserved populations, we will create precision public health solutions for their unique needs.
- Development of the Microbiome Centre and Germ-Free Facility will enable the prevention and treatment of inflammatory diseases like arthritis, IBD and asthma.
- New cancer treatments will be brought to the community more rapidly as clinical trials are increased.
- **Bioinformatics** and the use of "big data" will inform new practices of prevention and treatment, and provide greater information about our health.

Partnering for Healthy Communities - \$100 million

Ensuring the best in health for you and others requires that we extend our reach by partnering with the community. Philanthropy will:

- Create health solutions for disadvantaged populations.
- Elevate health outcomes in global communities.
- Enhance research translation to address societal health issues and needs.

Cumming School of Medicine | 26



Together you can take your place among the philanthropic leaders of your time.

Yes, you. People like you will be the catalyst to making the Cumming School of Medicine's vision a reality. You are as vital to the future of health as our students, researchers, clinicians and educators.

Join us in creating the future of health

You will help us attract the rising stars and emerging leaders who will explore new frontiers and deliver real solutions in prevention, diagnosis and treatment.

You will help us educate future generations of students, researchers, and clinicians who will take up the cause and boldly push into exciting new fields of discovery.

You will help us continue the vital research that has already benefited millions of patients, and could benefit billions more.

You will elevate Calgary in prominence as a world leader in the development of treatments that will prevent some of the most pressing health problems facing society.



This is your opportunity to spark meaningful change in the world. Because great cities need great universities. And great universities are built on great philanthropy.

Together we will create the future of health.

Help us take our place as a global leader in medicine.

Join us.

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