The Association of Canadian Medical Colleges, The Association of Canadian Teaching Hospitals, The Alumni and Friends of the Medical Research Council (MRC) Canada and Partners in Research

present...

Year 2000

A Celebration of Canadian Healthcare Research



This calendar is brought to you by...

The Association of Canadian Teaching Hospitals

President, Murray Martín, Vancouver Hospital & Health Sciences Centre

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Children & Women's Hospital, Vancouver, B.C.

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With special thanks to...

Betsy Little, Executive Director, The Canadian Medical Hall of Fame, London, Ontario Dr. B. Borwein and Dr. M. Hollenberg

A Celebration of Canadian Healthcare Research

As a writer passionately interested in telling Canadian stories, I am delighted by the initiative taken by the Association of Canadian Teaching Hospitals, the Association of Canadian Medical Colleges, the Alumni and Friends of MRC Canada, and Partners in Research to further the knowledge about our leading historical and contemporary medical scientists in this way.

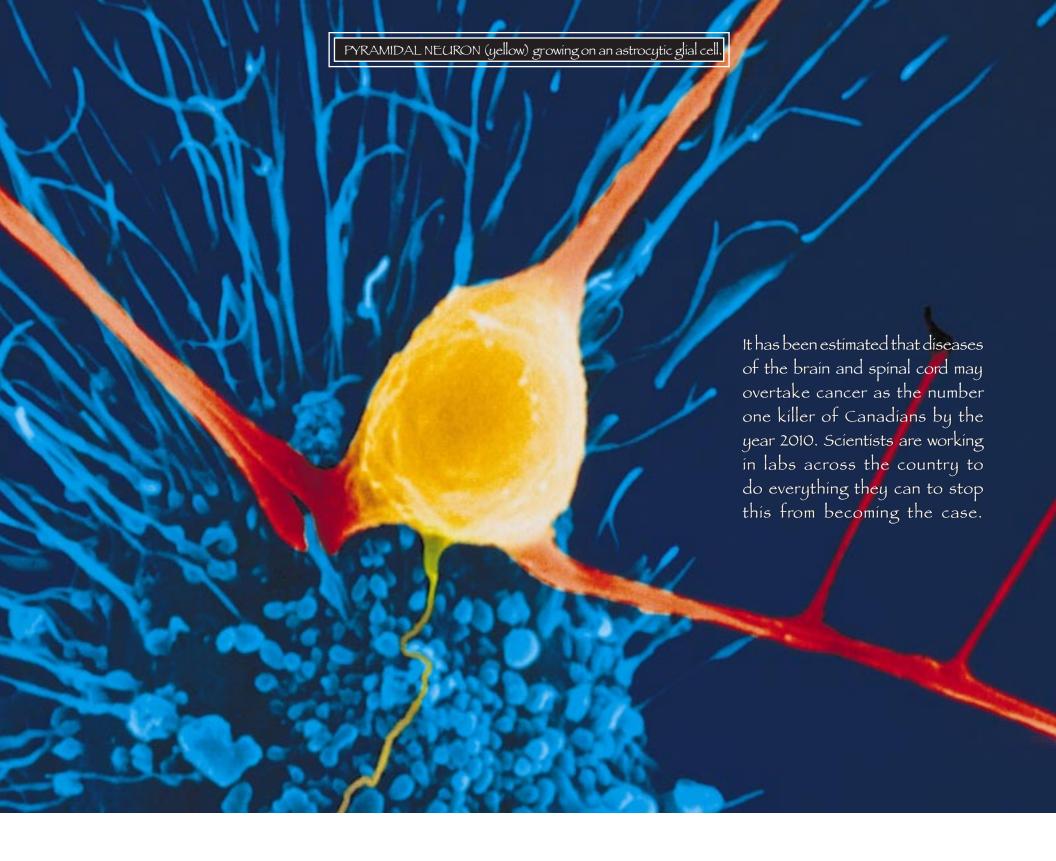
Celebrating Canadian discovery on the eve of a new millennium provides the opportunity to reflect on the historical figures who have contributed to medical science in Canada's first century. It is a chance to remember well-known figures such as Sir Charles Tupper, one of the Fathers of Confederation, who was a physician in Halifax and the first elected President of the Canadian Medical Association, and Dr. Harold Johns, who began the use of Cobalt 60 for cancer treatment. However, the calendar also highlights Dr. Maude Abbott, one of the first women authorized to practise medicine in Canada. The work of Drs. Abbott, Stowe and others led to the formation of Women's College Hospital in Toronto. Meanwhile, on the west coast, Vancouver General Hospital began as a tent hospital in 1886 for workers completing the national rail link.

Over a hundred years later the curiosity of brilliant minds has led to Canada's continuing role in medical discoveries. In 1983, Dr. Tak Mak at the University of Toronto discovered the gene for the T-cell receptor, a major key to the workings of the human immune system. Today, Dr. J.W. Yoon at the University of Calgary continues the work of Banting & Best in investigating the cellular and molecular mechanisms for Type 1 Diabetes. At the Université de Montréal, neuroscientists such as Dr. Jacques de Champlain are building on the strong history of brain research. In Winnipeg, Dr. Bruce Chown has contributed to our knowledge about the genetics of blood cells.

As you turn the pages over the course of the year, I hope that you will enjoy learning about this cross-section of Canadian scientists and be reminded of the endless curiosity and commitment of the thousands of men and women who are at work in our universities, research institutes and teaching hospitals. Their efforts stand to benefit the health of us all.



Pierre Berton



January

• ALZHEIMER'S AWARENESS MONTH Dates to remember... Jan. 19-26 • National Non-Smoking Week

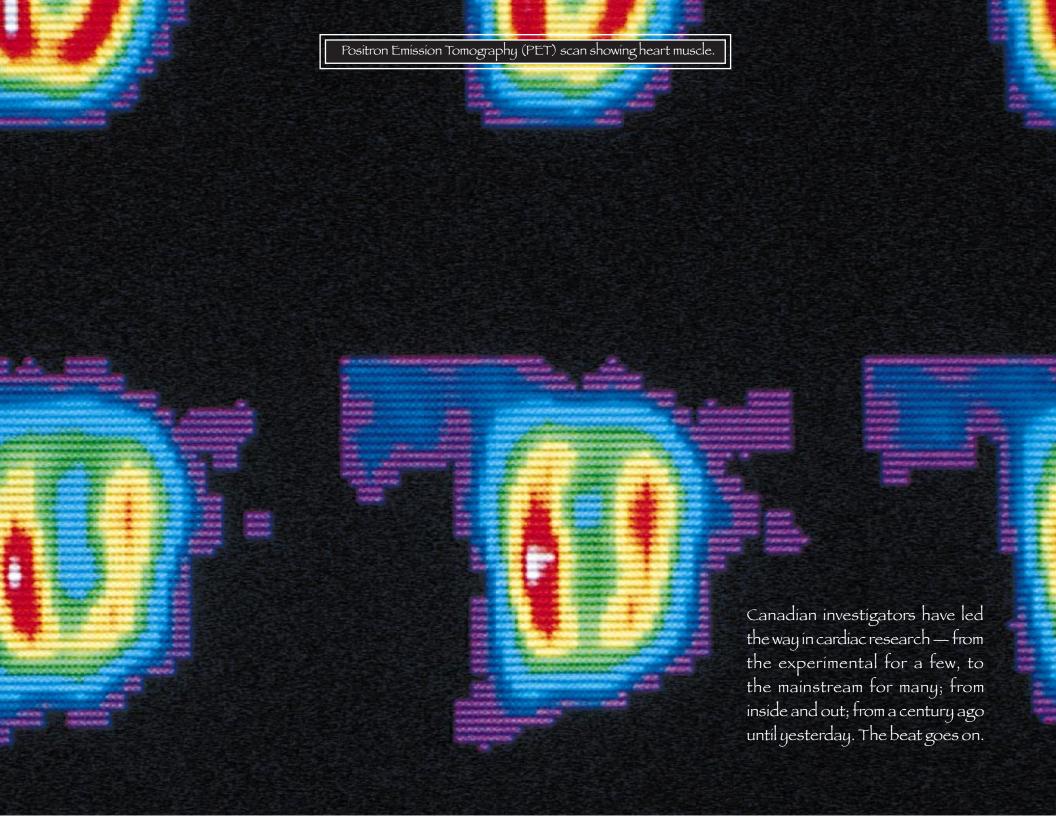


(1891-1976) DR. WIL DER G. PENFIELD

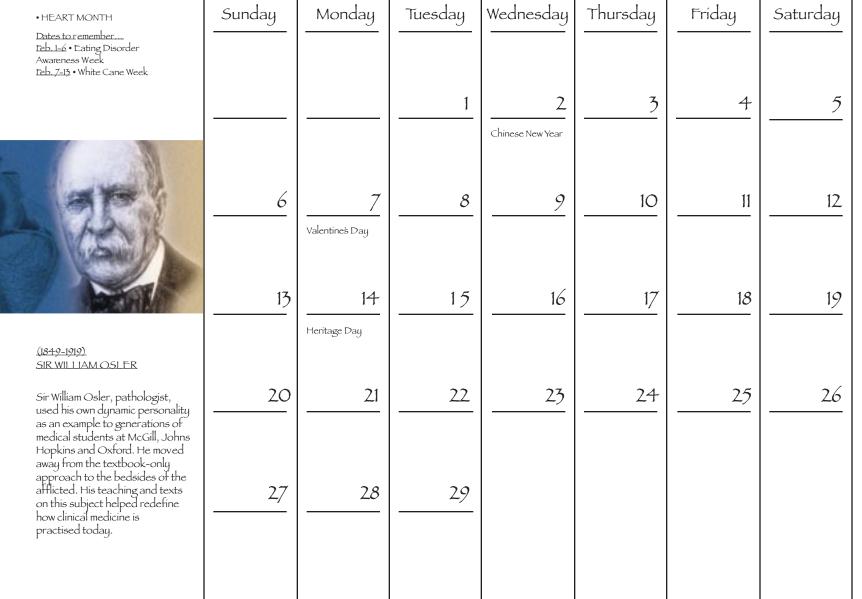
Founder of the world-famous Montreal Neurological Institute with his colleague Dr. William Cone. Dr. Wilder Penfield made research breakthroughs in the understanding and treatment of various forms of epilepsy, and of brain scars resulting from trauma.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
							New Year's Day
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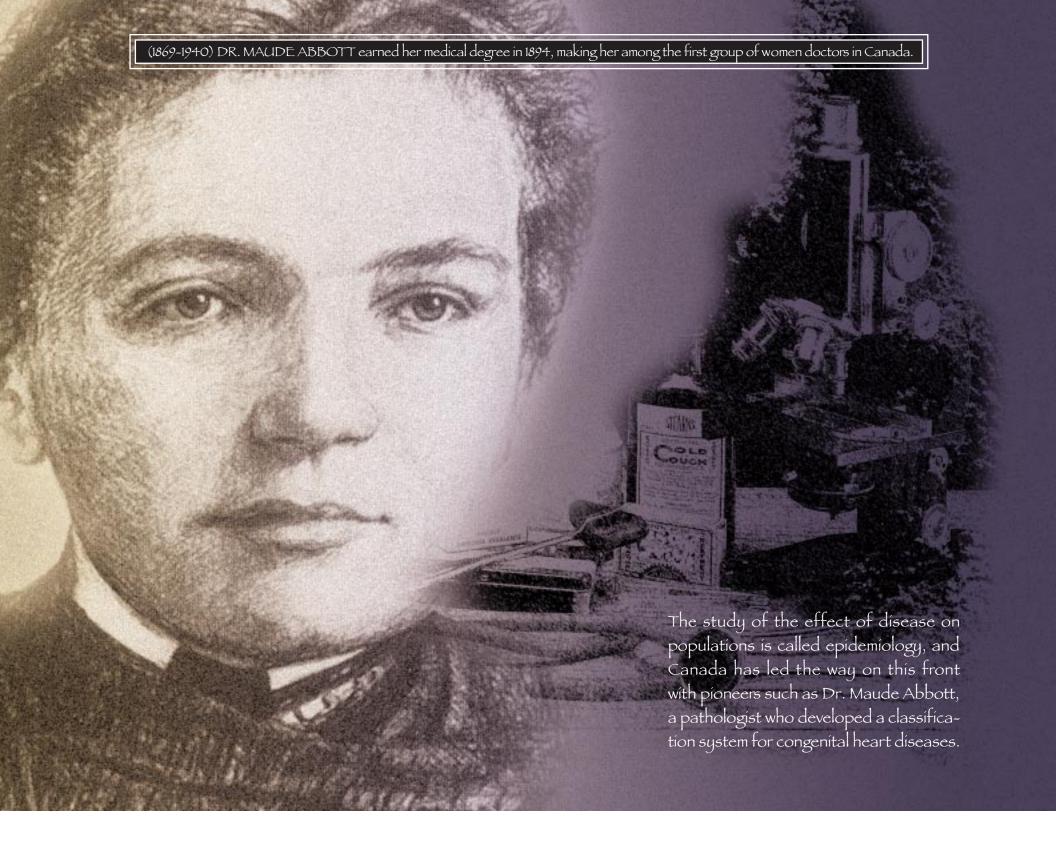
- Dr. Henry Barnett led a multi-centre clinical trial that showed that a tiny pill of aspirin can help prevent a stroke, or "brain attack." During his career he was involved in a number of other breakthroughs relating to stroke, and served as one of the founders of the renowned Robarts Research Institute in London, Ontario in 1992.
- Dr. Donald Calne has led groundbreaking studies involving imaging of the brain with Positron Emission Tomography (PET) scans to provide information on the rate of loss of nerve cells in patients with Parkinson's Disease.
- Dr. Jacques de Champlain is examining the cellular level functioning of the sympathetic nervous system and its impact on several cardiovascular pathologies.
- Dr. David Hubel is a neuroscientist who started his career at McGill's medical school. With a collaborator he won a Nobel Prize (1981) for mapping the visual cortex of the brain — David Hubels impact on neurosciences is remarkable.
- Dr. Mircea Steriade is a neurophysiologist at Université Laval investigating the neuronal basis of behavioural control with emphasis on how different parts of the brain interact (the dialogue between the cerebral cortex and the thalamus influenced by modulatory systems).



February



- Dr. Robert Beanlands
 was a pioneer in the use of
 Positron Emission
 Tomography (PET)
 scanning at the renowned
 Ottawa Heart Institute.
- Dr. Ray Chu-Jeng Chiu.
 Knowing that the heart
 muscle, unlike other muscles,
 does not need rest, Dr. Chiu
 set out to find a way to
 adapt muscle from the
 back so that it can help a
 weak heart to function.
 In an amazing combination
 of biochemistry and surgery,
 he accomplished what he
 set out to do and he now
 takes his place among
 medical research pioneers.
- Dr. Joseph Penninger
 was the first to point to
 the similarity of bacterial
 proteins to proteins in the
 heart. This similarity tricks
 the immune system into
 attacking not only the
 bacteria, but also the heart
 muscle a startling key
 to the early detection and
 treatment of heart disease.
- Dr. Donald Ricci uses a tiny stainless steel mesh tube, called a stent, to prevent arteries from narrowing or collapsing after cardiac treatments. With colleagues from around the world, Dr. Ricci was a key player in the development of this lifesaving device and procedure.



March

Tuesday Wednesday Thursday Friday

- NATIONAL NUTRITION MONTH
- HELP FIGHT LIVER DISEASE MONTH

Sunday

Monday

- LEARNING DISABILITIES AWARENESS MONTH
- NATIONAL EPILEPSY MONTH
- NATIONAL KIDNEY MONTH
- RED CROSS MONTH

Dates to remember...

Mar. 1 - 7 • National Pharmacy

Awareness Week

Mar. 8 - 14 • International Women's Week



"THE SCIENCE OF COMMUNICATION & EVALUATION"

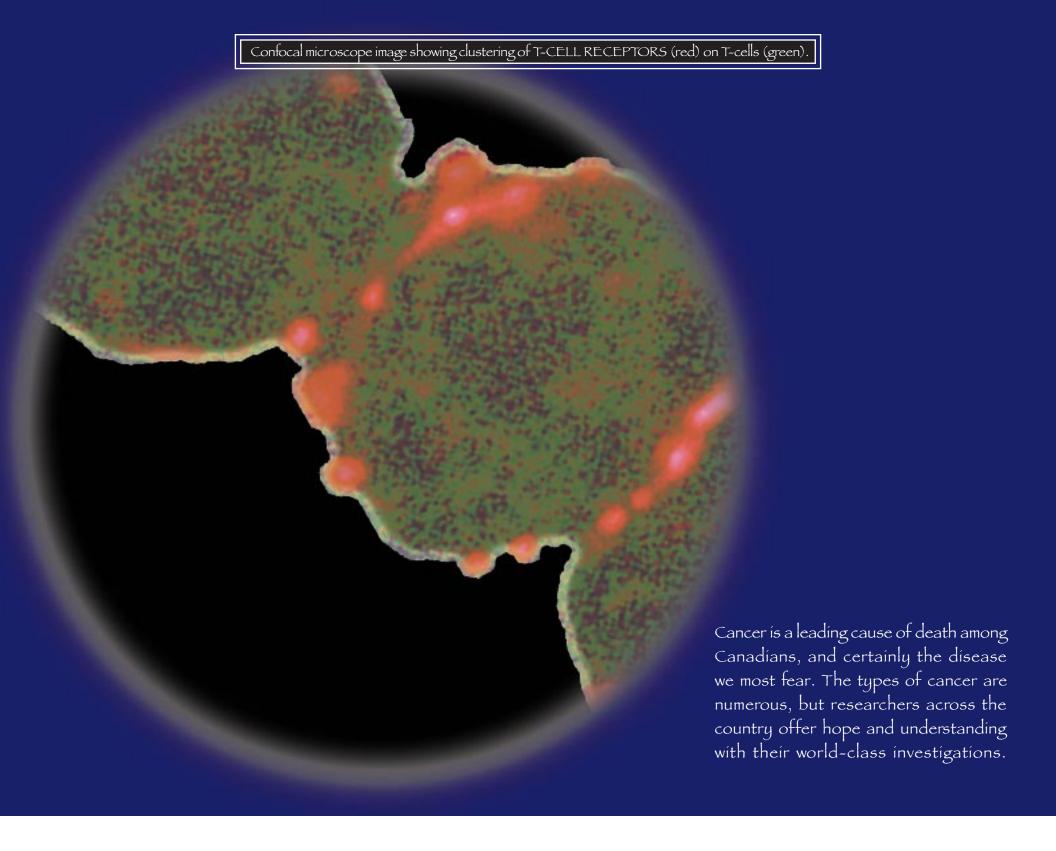
Over the past century, the gathering of data has revolutionized our world. This development has given birth to much more comprehensive data collection and analyses in healthcare, leading to the new discipline called Clinical Epidemiology. This population-based field of research encompasses the investigation of the clinical impact of new treatments and therapies.

				International Women's Day	2	3	
	5	6		8	9	St. Patrick's Day	11
	12	13	14	15	16	World Tuberculosis Day	18
	19		21	22_	23	24	25
5	26	27				31	

Dr. John Symonds Lyon
Brown championed health
research and especially clinical
science. His commitment was
made real when, in 1964, he
helped establish the Conseil
de la recherche médicale
du Québec.

Saturday

- Dr. George Brock Chisholm (1896-1971) was Toronto's first practising psychiatrist. As Director General of the World Health Organization from 1946-1953, Chisholm was indeed the "doctor of three billion people."
- Tommy Douglas will forever be known as the "Father of Canadian healthcare." He was tireless in bringing to life his vision for a national system of healthcare, which is now the envy of many countries all around the world.
- Dr. Jennie Trout (1841-1921).
 Although history describes her as the first woman to legally practise medicine in Canada in 1875, some say her friend and classmate Emily Stowe really came first! These women were true Canadian pioneers.



April

 CANCER 	MONTH

- DENTAL HEALTH MONTH
- PARKINSON'S AWARENESS MONTH

Dates to remember. April 2-4 · Daffodil Days Apr. 18-24

• National Volunteer Week

- · National Organ Donor Awareness Week
- Allergy Awareness Week

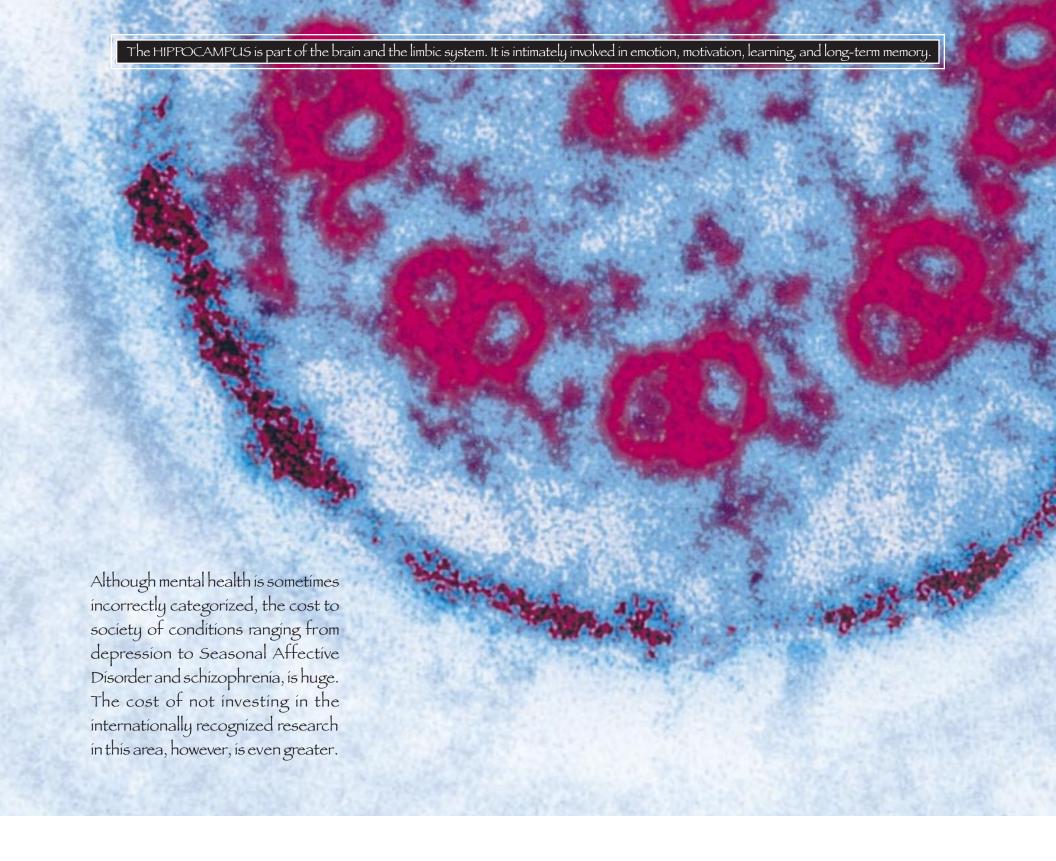


(1910-1990) DR. ROBERT NOBLE

In 1953, while studying a herb from the periwinkle family at the University of Western Ontario, Dr. Robert Noble developed Vincaleukoblastine, which was the first cure for Hodgkín's Lymphoma, and childhood leukemías, and is still in use today.

1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	•
						World Health Day	1	•
THE PERSON NAMED IN	2	3	4	5	6		8	
	9 Palm Sunday	International Hemophilia Day	11	12_	13 Passover	14 Good Friday	15	•
	Easter Sunday	17	18	19	20	21	22	•
	23	24	25	26	27	28	29	•
								•

- Dr. Ann Chambers wants to understand how cancer cells spread (metastases) and how this can be prevented. Some of her answers have already made her a world authority on this front. She still seeks others, however.
- Dr. Anthony Eyles is a champion of "translational" research at Princess Margaret Hospital in Toronto, where developments in the lab are taken directly to patients. In this case, patients are benefitting from his investigation into the relationship between hypoxia (lack of oxygen) and tumour proliferation in cervix, breast, prostate, head, and neck cancer.
- Dr. Julia Levy gained world renown for her co-discovery of photodynamic anti-cancer treatment, which involves drugs that are activated by light. These days her Vancouver-based company is already looking at expanding to treatment of auto-immune diseases such as arthritis.
- Dr. Victor Ling's claim to fame is the discovery of the cell membrane transport protein P-glycoprotein, which is impor-tant in understanding multi-drug resistance in many cancers. He is the only person in the world to have won the two highest honours in cancer research.
- Dr. Tak Wah Mak describes T-cells as "biodetectives," who cruise the blood and tissue looking for viruses to destroy. They know they've found the right virus when their receptors (discovered by Mak in 1983) fit.



May

• ALLERGY AWARENESS MONTH	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
• CYSTIC FIBROSIS MONTH							
• HEARING AWARENESS MONTH							
• HUNTINGTON'S DISEASE AWARENESS MONTH							
• MEDIC ALERT MONTH		1	_	7	1	_	
• SPEECH AND HEARING AWARENESS MONTH		1	2		4	<u>5</u> Canada	6
Dates to remember May 1–7. Spinal Health Week May 2–8 • Animal Health Week May 3–9. • National Mental Health Week May 7–10. • Multiple Sclerosis Carnation Campaign May 10–16. • National Nursing Week May 18–24. • North American Occupational Safety & Health Week	7 Mother's Day	8	9	10	11	Health Day	13
	14	15 Victoria Day	16	17	18	19	
	21	22_	23	World No-Tobacco Day	25	26	27
(1907–1982) DR. HANS SELYE	28	29	30	31			
Dr. Hans Selye was a forefather in demonstrating the link between disease and stress. Dr. Selye's work at McGill University showed that stress levels affect the disease defence system.							

- Dr. Michel Bouvier is a biochemist working at the molecular level to understand how cellular receptors in neurotransmitters and hormones decode information related to the interaction with G-proteins.
- Dr. Chris Fibiger. A leader in brain research, and in the causes and treatments of clinical depression, Dr. Fibiger was the first in the world to show how dopamine receptors in the brain react to drugs such as cocaine. He is among the 200 most-frequently cited scientists in the world, in any field.
- Dr. Doreen Kimura was a behavioural psychologist based at the University of Western Ontario. In her pursuit of understanding how people differ from each other, she became a world expert on sex differences in the brain.
- Dr. Brenda Milner, at the Montreal Neurological Institute, has long been a leader in neuropsychology—the discipline that bridges the study of the brain and the study of behaviour. She is best known for her research on the human memory process.



June

- SENIORS' MONTH
- NATIONAL SPINA BIFIDA AND HYDROCEPHALUS AWARENESS MONTH

Dates to remember... June 1 - 7 • National Access Awareness Week



(1908-1995) DR. MURRAY BARR

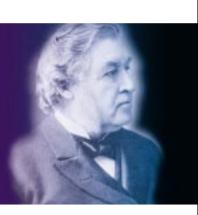
When Dr. Murray Barr identified the sex chromatin body, he helped launch a new era in the research and diagnosis of genetic disorders. In particular, his research led to greater understanding of mental retardation.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6		8	9	10
11 Father's Day	12_	13	14	15	16	St. Jean Baptiste Day (Québec)
18	19	20	21	22	23	24
	26	27	28			

- Dr. Sid Altman was the winner of the Nobel Prize for Chemistry in 1989. Montreal-born Altman's very important discovery of catalytic RNA led to new understanding, including that of the origin of life.
- Dr. William Jia is working with gene therapy — using viral vectors to carry therapeutic genes to treat diseased brain cells. He and his team at Vancouver Hospital in B.C. are world leaders in this growing new area of genetic research.
- Dr. Michael Smith is a biochemist and molecular biologist. He won the 1993 Nobel Prize for Chemistry, and discovered site-directed mutagenesis.
 The methods he designed to make specific changes in DNA have been instrumental in launching the current, amazing biotechnology revolution.
- Dr. Irene Ayako Uchida is a cytogeneticist with connections to many parts of Canada. Uchida's work as a researcher of Down syndrome and other chromosomal abnormalities is world-famous.



July



(1821-1915) SIR CHARLES TUPPER

Sir Charles Tupper was one of Canada's first prime ministers, and the founding president of the Canadian Medical Association. He was a Maritime country doctor during a time when the Last Spike was driven, and the historic British North America Act was signed.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						Canada Day
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	10	20	21	22
	17		19			
27	2.4	2.5	2/	27	2.0	22
23	24		26	27	28	29
	31					

- Dr. Walter Lewis and Dr. Memory Elvin-Lewis have travelled the world in search of new medicines, seeking the secrets of many traditional practitioners in the most remote tribes. Dr. Elvin-Lewis is also responsible for recording the first case of AIDS.
- Dr. Robert McMaster is a Vancouver-based researcher heading a World Health Organization vaccine trial against the parasitic disease called Leishmaniasis. It affects 20 million people worldwide and one million new cases are diagnosed each year.
- Dr. Neil Reiner. With tuberculosis (TB) on the rise again, Dr. Reiner's investigations into host defense against intracellular infections (including TB, leprosy, leishmaniasis, and a broad range of other bacterial infections) have never been more timely, more important, and more promising.



August

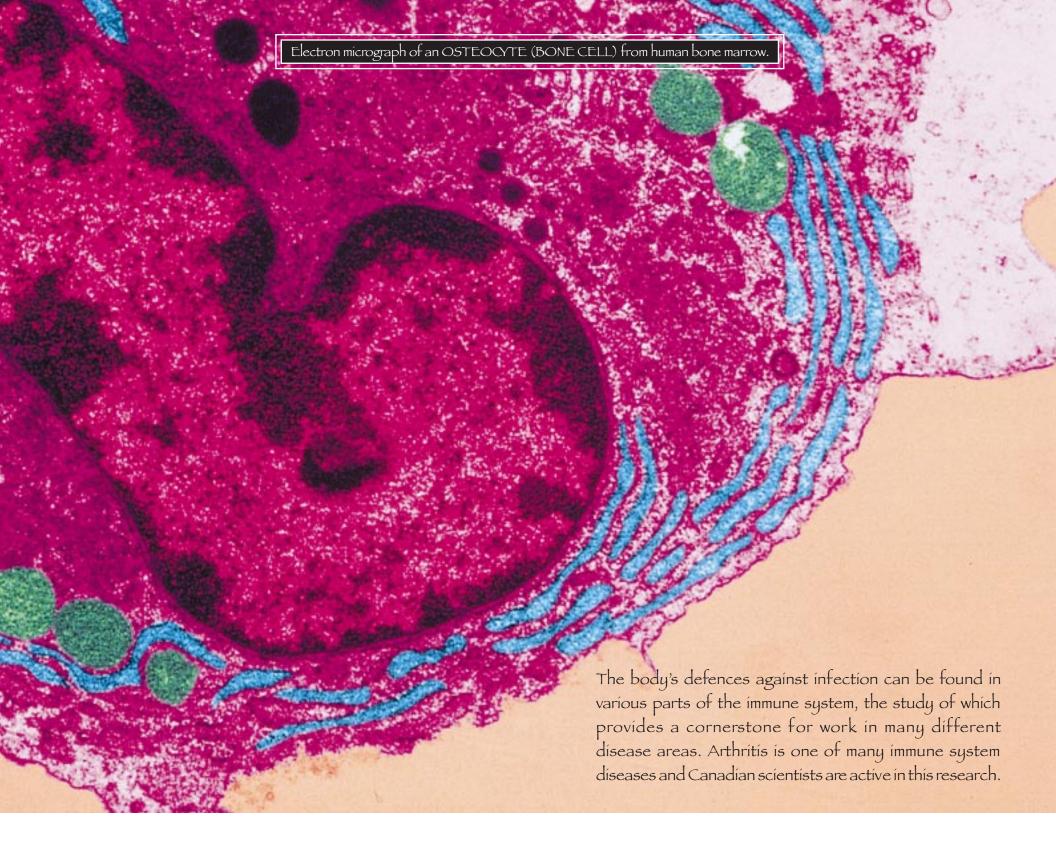


(1893-1986) DR. BRUCE CHOWN

Dr. Bruce Chown was among the first scientists in the world to concentrate on blood group incompatibilities, and his establishment of a lab at Children's Hospital in Winnipeg brought world renown for research which virtually eliminated infant deaths from Rh disease.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Civic holiday (NT, BC, AB, SK, MB, ON, NB)	1	2	3	4	5
200	6	MB, ON, NB)	8	9	10	11	12
	13	14	15	16	17	18	
d	20	21	22_	23	24	25	26
	27	28			31		

- Dr. Brenda Gallie is a hero to many kids who don't even know her. She developed a blood test to screen for retina tumours in children, replacing a more complex exam under anaesthesia.
- Dr. Gustave Gingras
 (1918-1996) is considered around the world to be an ambassador for the handicapped. Developer of a prosthesis for children that is controlled by electrical signals from muscles, Gingras also established famous rehabilitation centres for paraplegics first in Montreal, then in Morocco, Venezuela and Vetnam.
- Dr. Charles Scriver is a major Canadian scientist in metabolic diseases. He studied the skeletal disease rickets, in children in Quebec. His research led to the enrichment of Quebec-produced milk with Viatmin D, which prevents rickets. He was involved with the inception of the worldwide Human Genome Project.
- Dr. Lap-Chee Tsuiis a molecular geneticist who, with a team in 1989, found the gene that causes Cystic Fibrosis the most common genetic disease in Canada. Scientists around the world are using the knowledge of this gene to hunt for a cure.



September

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• ARTHRITIS MONTH

(1879 –1960) DR. MAUD MENTEN

Dr. Maud Menten was one of the first women to receive a medical degree in Canada, and her research also set new standards on a number of fronts. From a mathematical equation for analyzing scientific observations, to protein behaviour, Dr. Menten was indeed a Canadian medical pioneer.

			1			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
	Labour Day					
3	4	5	6	7	8	9
	,					
10	11	12	13	14	15	16
Terry Fox Run						
17	18	19	20	21	22	23
		AIDS Walk Canada				Rosh Hashanah
24	25	26	27	28	29	

- Dr. Thomas Chang was just a student at McGill
 University in Montreal when he invented the world's first artificial cell in 1957. Dr.
 Chang went on to earn not only his PhD, but also attention for his development of the first artificial blood, and new studies of artificial organs such as the liver and kidneys.
- Dr. Harold Robinson was posted in England during the First World War. While there, he learned of a treatment for rheumatoid arthritis and decided to bring it back home first to Banff, then to Vancouver. These days, that "gold treatment" is still among the most widely used to treat this disease.



October

- BREAST CANCER AWARENESS MONTH
- AUTISM MONTH
- EYE HEALTH CANADA MONTH
- LUPUS AWARENESS MONTH
- NATIONAL FLU PREVENTION AWARENESS MONTH
- PSORIASIS AWARENESS MONTH
- SUDDEN INFANT DEATH SYNDROME AWARENESS MONTH

Dates to remember...
Oct. 16-23 • Celiac Awareness Week
Oct. 11-17 • Community Care
Worker Week
Oct. 15-24 • National Science
and Technology Week
Oct. 18-24 • National Dental
Hygiene Week

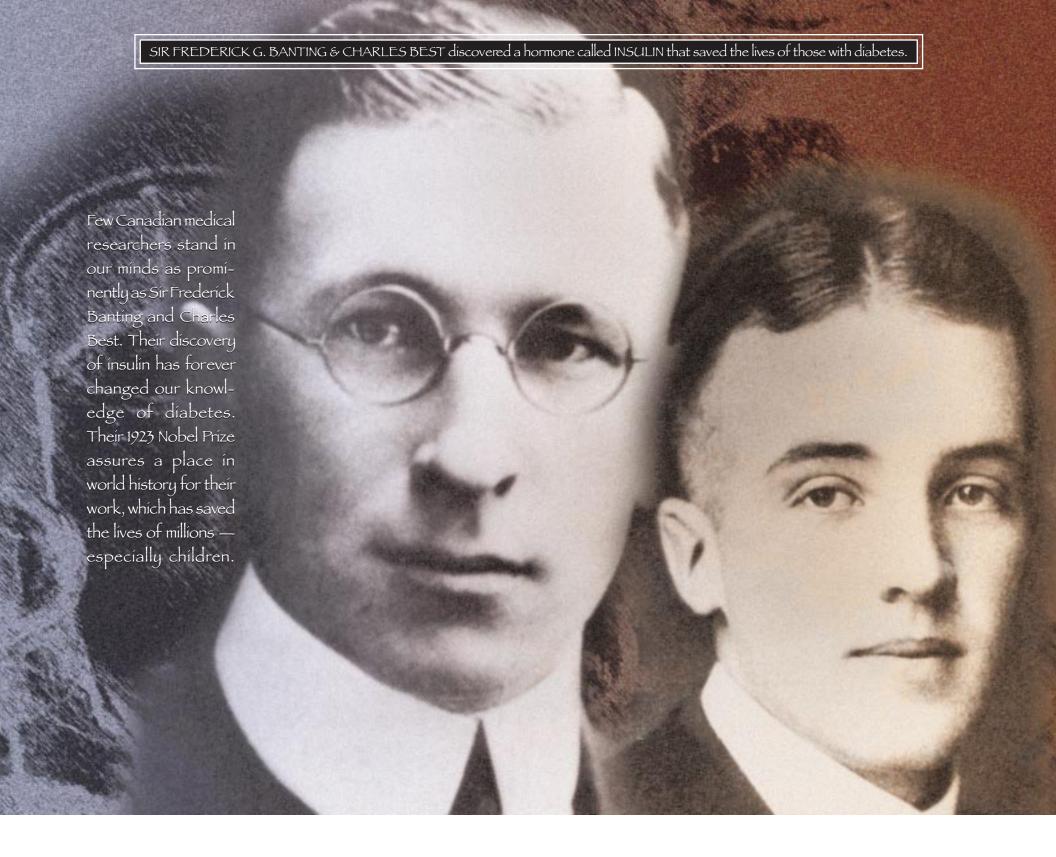


(<u>1915-1998</u>) DR. HAROLD JOHNS

Canada was the first country in the world to develop a radiation source stronger than the x-ray to treat cancer patients, and we have Dr. Harold Johns to thank for the safe delivery of "cobalt-60" in 1951, a treatment still widely used for diagnostic and therapeutic purposes.

Sunday International Day for Older Persons	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Thanksgiving Yom Kippur	3	4	5	6	7
8	9 World Food Day	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24 Hallowe'en	25	26	27	28
29		31				

- Dr. Charles Leblond,
 Professor of Anatomy at
 McGill, revolutionized
 biology by using radioactive
 tracers in animals to study
 exactly where and how cells
 and molecular processes
 take place. With his
 colleagues he greatly
 improved the practice
 of radioautography and
 made it useful in electron
 microscopy.
- Ravi Menon is a pioneer in the technique of functional Magnetic Resonance Imaging (fMRI) at the University of Western Ontario. Using this technique, researchers can now investigate where exactly in the brain particular functions are located.
- Dr. Endel Tulving is a world expert on human memory. In his work at the Rotman Institute at the University of Toronto, he uses many methods, including x-rays and Positron Emission Tomography (PET scanning) to show that information acquired without awareness can still be stored in the brain. In many memory disorders, the information is in the brain but retrieval is the problem.



November

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
			Roentgen Discovery Day			Remembrance Day
	6		8	9	10	11
12_	13 National Child Day	14	15	16	17	18
19	20	21	22	23	24	
26	27					
		5 6 12 13 National Child Day 19 20	5 6 7 12 13 14 National Child Day 19 20 21		1 2 13 14 15 16 19 20 21 22 23	1 2 3

- Dr. James Collip (1892-1965). A skilful biochemist, Collip worked with Banting, Best and McLeod to produce (from dogs) the first insulin suitable for use in human beings. He was one of the original patent holders of insulin. He went on to isolate the parathyroid hormone, and also pioneered the isolation and study of ovarian and gonadotrophic (reproductive) hormones.
- Dr. Jim Wright is a pediatric pathologist working at Dalhousie Medical School. He and Dr. Bill Pohajdak, an Associate Professor in the department of biology at Dalhousie University in Halifax, have produced genetically-altered fish which contain humanized insulin genes. Eventually it may be possible to transplant genetically-altered fish islet cells into diabetic patients, thereby reducing the complications from diabetes.
- Dr. J.W. Yoon's work at the University of Calgary has made an enormous impact on diabetes research. His important studies involve the links between viruses and the development of Type I Diabetes.



December

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(1890-1939) DR. NORMAN BETHUNE

Born in a small Ontario town, Dr. Norman Bethune died a hero 49 years later in a one-room house in northern China. The Montreal surgeon lived a colourful life, forming the world's first mobile medical unit and blood transfusion service while working overseas in Spain and China. Just a few grams of penicillin would have saved his life, but he died of complications from an infected wound he suffered while operating without surgical gloves.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						World AIDS Day	
	International Day for Disabled Persons					1	2
	3	4	5	6		8	9
1	10	11	12_	13	14	15 Hanukkah	16
	17 Christmas Eve	18 Christmas Day	19 Boxing Day		21	International Day for Biological Diversity	
	New Year's Eve	25	26	27	28	29	
	31						

- Albert J. Aguayo.
 Argentinian-born Dr.
 Aguayo, and his associates at McGill University, shook the world of neuroscience
 research when they proved in 1980 what was thought
 impossible the regrowth of damaged brain and spinal cord nerve cells in adult animals. He discovered that nerve cells do not die immediately when damaged, but may survive for months, and he has put his breakthroughs to work on healing optic nerves.
- Dr. Tom Oxland. When vertebrae are damaged as a result of trauma, they can press on the spinal cord and surrounding nerves, causing paralysis. But surgeons can now alleviate that paralysis by replacing a damaged vertebra with a titanium "cage" filled with bone cells. Originally developed by Dr. George Bagby, Dr. Oxland and others around the world have refined the design to its current success.
- Dr. John Steeves. Until relatively recently, victims of spinal cord injury were not expected to live. Researcher's such as Dr. Steeves are part of the movement to change all that, with new experimental therapies to improve functional recovery. Just around the corner from his lab at the University of British Columbia, wheelchair athlete and Man In Motion Rick Hansen believes some day he may walk again as a result of this and other work being done.

Please tell us what you think...

Please circle the appropriate response.

ou rate the cor	itent and stori	es in this calendar?
readable	informative	very informative
	ign and prese	ntation of information in
readable	appealing	very appealing
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hratic		historical stories disease information
		search other:
eople will use o	or see this cale	endar?
5	5-15	15+
and suggestions	s :	
	•	for next year's calendar.
ww.umanitoba.c so emaíl your	ca/medicine/al	umni_mrc . aangel@hsc.mb.ca
	readable you rate the des r? readable the following to esearch breakth nteresting (1) to cience imagery ontemporary stories ou use or see the ecople will use of and suggestions d like to be on the es calendar is a ww.umanitoba.c so email your	readable appealing the following topics relating to esearch breakthroughs in ord nteresting (1) to least interesti cience imagery ontemporary stories ou use or see this calendar? e home ecople will use or see this cale 5-15 and suggestions:

For further information please contact:

The Dean of Medicine at any of Canada's 16 medical schools (see list on inside front cover) and/or the Vice-President, Research at any of Canada's 34 teaching hospitals (see list on inside front cover).

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