

### Publications of the Week

#### A Balancing Act: Using Small Molecules for Therapeutic Intervention of the p53 Pathway in Cancer

First Author: Jessica Miller | Senior Author: Tim Storr *(pictured)*  
 Chemical Society Reviews | SFU



Referred to as the “guardian of the genome”, p53 is the most frequently mutated protein in cancer and almost all cancers exhibit malfunction along the p53 pathway. In this review, the authors collect and communicate the chemical principles involved in small molecule drug design for misfolded proteins in anticancer therapy.

[Abstract](#)

#### Gene Delivery to the Skin – How Far Have We Come?

First Author: Qurat Ul Ain | Senior Author: Sarah Hedtrich *(pictured)*  
 Trends in Biotechnology | NanoMedicines Innovation Network and UBC



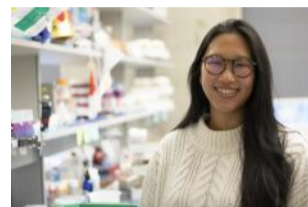
The application of gene therapies for skin diseases has received little attention so far, despite the easy accessibility of skin and the urgent medical need. In this review, the authors discuss current approaches, successes, and failures of cutaneous gene therapy and provide guidance toward the development of next-generation concepts. [Abstract](#)

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### Awards

#### UBC Doctoral Student Wins Three Awards at the Canadian Student Health Research Forum

UBC Graduate and Postdoctoral Studies



Lianna Wat *(pictured)*, a UBC doctoral student in the Cell and Developmental Biology program in the Faculty of Medicine, has won all three trainee awards at the 2020 Canadian Student Health Research Forum (CSHRF). As a recipient of all three awards, Lianna will be sent to represent Canada at the next Lindau Nobel Laureate Meeting dedicated to Physiology and Medicine. [Read More](#)

#### Faculty of Medicine Researchers Receive \$2.8M for Equipment and Infrastructure

UBC Medicine



Dr. Hilla Weidberg *(pictured)* is among the eleven UBC Faculty of Medicine researchers who have received a combined \$2.8 million for state-of-the-art labs and equipment. The funding comes from the Government of Canada, through the Canada Foundation for Innovation’s John R. Evans Leaders Fund. The investment provides researchers with the highly specialized infrastructure they need to be leaders in their field. [Read More](#)

#### Dr. Catharine Winstanley Inducted into the Royal Society of Canada

Djavad Mowafaghian Centre for Brain Health



Dr. Catharine Winstanley *(pictured)* has been elected into the Royal Society of Canada as a Member of the College of New Scholars, Artists and Scientists. This is the first national system of multidisciplinary recognition for the emerging generation of Canadian intellectual leadership. Dr. Winstanley’s work explores the neural, neurochemical, and molecular basis of higher-order cognitive processes.

[Read More](#)

#### Announcing the 2020 MSFHR Scholars and Research Trainees

Michael Smith Foundation for Health Research



Artificial intelligence in breast cancer screening, mental health in immigrant and refugee children, substance use harm reduction, and vaccine education for midwifery clients are just some of the areas being investigated by this year’s Michael Smith Foundation for Health Research (MSFHR) Scholar and Research Trainee award recipients who are advancing science, addressing health priorities, and improving the health of British Columbians. [Read More](#)

#### Five UBC Science Students Receive Canada's Largest Stem Scholarship

UBC Science



First-year UBC Science students Susan Chung, Aidan Eglin, Rita Jin, Romina Mahinpei and Niki McIntosh have been named 2020 Schulich Leader Scholars. They were among 1,400 nominees across Canada competing for 100 of the \$80,000 scholarships. “Schulich Leader Scholarships are the premiere STEM scholarship program in Canada and the world,” said Seymour Schulich, Founder of the program. [Read More](#)

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### Local News

#### Long Live the Queen: UBC Scientists Find Clues to Queen Bee Failure

UBC News



Scientists at UBC are unravelling the mysteries behind a persistent problem in commercial beekeeping that is one of the leading causes of colony mortality — queen bee failure. The researchers have identified specific proteins that are activated in queen bees under different stressful conditions: extreme heat, extreme cold, and pesticide exposure — conditions that can affect the viability of the sperm stored in the honey bee queen’s body. [Read More](#)

#### Uncovering the Genetics Behind Heart Attacks that Surprise Young, Healthy Women

University of Michigan Medicine



Rather than a slow build-up of plaque over time, a heart attack caused by spontaneous coronary artery dissection (SCAD) strikes suddenly, often in younger women who didn’t seem to be at risk for a cardiac event. Researchers co-led by Dr. Jacqueline Saw *(pictured)* at Vancouver General Hospital have now uncovered additional genetic clues to better understand SCAD. [Read More](#)

#### The Biomolecular Corona of Lipid Nanoparticles for Gene Therapy

UBC Life Sciences Institute



To honour the 30<sup>th</sup> anniversary of the journal *Bioconjugate Chemistry*, Dr. Pieter Cullis *(pictured)* and collaborators from UBC and the Netherlands published their first review article showcasing the potential of gene therapy and lipid nanoparticles in treating diseases by gene silencing, protein expression, or gene correction. They summarize recent discoveries about the biomolecular corona. [Read More](#)

#### UBC Researchers Play Pivotal Role in Confronting COVID-19

UBC News



The COVID-19 pandemic has highlighted challenges, exacerbated inequalities and sparked uncertainty for many. But one area of particular strength and inspiration is Canada’s research community and its response to the pandemic. According to UBC Vice-President Research and Innovation Gail Murphy, the support of successive federal and provincial governments has allowed Canada to cultivate a world-class university research community – one that is playing a critical role in confronting COVID-19. [Read More](#)

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### Upcoming Events in Vancouver

September 17 8:00 AM	<b>Vancouver Nanomedicine Day</b> Online
September 17 8:00 AM	<b>Skills of Communication Workshop</b> Online
September 17 2:00 PM	<b>22<sup>nd</sup> Annual LifeSciences BC Awards, Presented by FARRIS</b> Online
September 20 1:30 PM	<b>Vancouver STEMminist Book Club Reads “Superior” by Angela Saini</b> Online
September 21 10:00 AM	<b>BCREGMED Media Engagement Workshop</b> Online

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### Science Jobs in Vancouver

<b>Research Associate/Senior Research Associate, Biology</b> Chinook Therapeutics
<b>Research Programmer</b> Canada’s Michael Smith Genome Sciences Centre at BC Cancer
<b>Process Development Associate</b> STEMCELL Technologies
<b>Product Costing Specialist</b> STEMCELL Technologies
<b>Senior Scientist, Immune Profiling</b> AbCellera

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