

Publications of the Week

Functional Characterization of a Cellulose Synthase, CtCESA1, from the Marine Red Alga *Calliarthron tuberculosum* (Corallinales)

First Author: Jan Xue (pictured, front, second from left) | Senior Author: A. Lacey Samuels (front, left)  
Journal of Experimental Botany | UBC



In land plants and algae, cellulose is important for strengthening cell walls and preventing breakage due to physical forces. The authors identify cellulose synthase enzymes (CESA) gene candidates in the calcifying red alga *Calliarthron tuberculosum* using sequence similarity-based approaches and elucidate their phylogenetic relationship with other CESAs from diverse taxa. **Abstract**

Genomic Insights into the Diversity, Virulence and Resistance of *Klebsiella pneumoniae* Extensively Drug Resistant Clinical Isolates

First Author: Amy Lee (pictured) | Senior Author: Octavio Franco  
Microbial Genomics | SFU and UBC



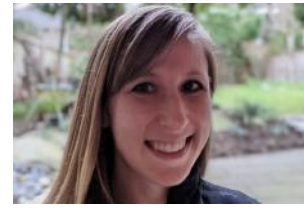
*Klebsiella pneumoniae* has been implicated in wide-ranging nosocomial outbreaks, causing severe infections without effective treatments due to antibiotic resistance. The authors performed genome sequencing of 70 extensively drug resistant clinical isolates, collected from Brazil's hospitals between 2010 and 2014. The majority of strains (60 out of 70) belonged to a single clonal complex (CC), CC258, which has become distributed worldwide in the last two decades. **Abstract**

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Awards

Announcing the Winners of the 'Society to Cell' Clyde Hertzman Memorial Fellowship

UBC Social Exposome Cluster



The 'Society to Cell' Clyde Hertzman Memorial Fellowship is funded by the Social Exposome Cluster and the Human Early Learning Partnership to financially support UBC trainees who are conducting research projects that are related to child health and well-being. Karlie Edwards' (pictured) project explores the effects of malnutrition on immune system development and function. **Read More**

Three Faculty Members Inducted as Fellows of the Canadian Academy of Health Sciences

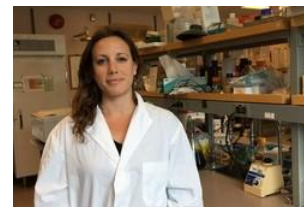
UBC Faculty of Medicine



UBC Faculty of Medicine's Drs. Teresa Liu-Ambrose, Gina Ogilvie, and Anita Palepu (pictured) are among 74 new Fellows elected into the Canadian Academy of Health Sciences (CAHS) for 2021. Election to Fellowship in the CAHS is considered one of the highest honours for individuals in the Canadian health sciences community. **Read More**

Dr. Marine Theret Recognized for Mentorship Excellence at the CBR

Centre for Blood Research (CBR)



For research associate Dr. Marine Theret (pictured), mentorship is all about giving and receiving good, constructive feedback. A long-time proponent of mentorship, Marine was awarded the Neil Mackenzie Mentorship Excellence Award to recognize her mentorship excellence and many contributions. An avid hiker and gym enthusiast, she joined the Rossi lab in 2016 to study fibrosis and its signalling pathways. **Read More**

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Local News

BCDRN Spotlight: Dr. Søs Skovsø, Research Associate, UBC Vancouver

BC Diabetes Research Network (BCDRN)



Dr Søs Skovsø (pictured) completed her postdoctoral research fellowship training and became a research associate in the Johnson laboratory in the Life Sciences Institute at the UBC Vancouver campus. Learn more about Søs and her journey from Denmark to Canada to pursue her passion for science and healthy living with a positive outlook and good sense of humour along the way. **Read More**

Derm-Biome Pharmaceuticals Reports Positive Results from a Preclinical Study in Atopic Dermatitis

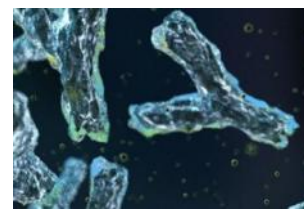
Derm-Biome Pharmaceuticals



Derm-Biome Pharmaceuticals, a Vancouver-based biopharmaceutical company focused on skin health and healthy ageing, has announced that two of its topical drugs produced significant inhibitory effects in a well-established mouse model of atopic dermatitis (AD). AD is a chronic inflammatory skin disease with significant unmet need that is often linked to depression and a decreased quality of life. **Read More**

AbCellera Announces Collaboration with Moderna to Discover Therapeutic Antibodies for mRNA Medicines

AbCellera



AbCellera has announced that it entered into a multi-year, multi-target research collaboration and license agreement with Moderna to leverage AbCellera's AI-powered technology to search and analyze natural immune responses to identify therapeutic antibodies against up to six targets selected by Moderna. Under the terms of the agreement, Moderna will have the rights to develop and commercialize antibodies resulting from the collaboration. **Read More**

World Sepsis Day: Raising Awareness of a Global Health Crisis

UBC Microbiology & Immunology



Sepsis is a global health crisis that affects 47 to 50 million people every year. At least 11 million of those people die — one death every 2.8 seconds. "I wish the public understood how common it is," says Dr. Bob Hancock (pictured). "We had been developing systems immunology methods in the [Hancock] lab and this seemed like a perfect approach to get a handle on this very complicated and rather understudied disease." **Read More**

Genes, Pain, and Medication: Q&A with Dr. Catrina Loucks

BC Children's Hospital Research Institute



For some children with cancer, the most painful part of their journey is when they start receiving life-saving treatment. To improve care for these and other sick children, it's essential to understand why pain can be more intense in some kids than others, and how pain medications can potentially cause harmful reactions. To answer these questions, Dr. Catrina Loucks (pictured) is studying genes related to how children experience pain. **Read More**

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Interesting Articles

No 'Silver Bullet' to Address Biotech Talent Shortage, Says BIOTECanada President

The Hill Times



An industry association says it's reaching out to biotechnology companies across Canada to develop a strategy to contend with a labour shortage problem in the sector which has accelerated during the COVID-19 pandemic. "It's a highly competitive space. You're trying to attract talent from around the world to Canada. You're also trying to retain what you do have here because other countries are pulling our talent away," said Andrew Casey, the President and CEO of BIOTECanada. **Read More**

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Upcoming Events in Vancouver

- September 21 10:00 AM **BC Cancer Research Day** Online
- September 21 10:00 AM **Lipid and RNA Nanomedicines to Control Bleeding and Thrombosis** Online
- September 22 10:00 AM **Patient-Oriented Research and Knowledge Translation in Arthritis Rehabilitation** Online
- September 22-23 10:00 AM **UBC Tissue Clearing and Expansion 2021** Online
- September 22 12:00 PM **Emergent Global Pandemic Threats: Origin, Spread, and Adaptation of SARS-CoV-2** Online

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STEMCELL Jobs in Vancouver

**Process Development Scientist**

STEMCELL Technologies

**Program Manager, Strategic Pricing**

STEMCELL Technologies

**Senior Buyer, Direct Materials**

STEMCELL Technologies

**Senior Quality Control Analyst, Microbiology**

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**Scientific Marketing Specialist, Europe and Export**

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Other Science Jobs in Vancouver

**Project Coordinator**

Providence Health Care Research Institute

**Genomics Specialist, COVID-19 Response**

BC Centre for Disease Control Labs

**Associate Research Scientist, Antibody Purification**

AbCellera

**Research Assistant/Technician 3**

UBC

**Biochemical Characterization Team Lead, Senior/Principal Scientist**

Amgen

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