

REPUTATIONAL SUCCESSES

Sequencing the Wheat Genome

U of S researchers are part of an international team that has published the first chromosome-based draft sequence of the wheat genome, a development that promises wheat breeders powerful new tools in developing varieties to meet the challenges of world population growth and climate change. More information is available at: <http://goo.gl/j31r3P>.

Monitoring Drinking Water

A new project led by **Helen Baulch** (SENS) will provide near-real-time data to measure water quality in Buffalo Pound Lake, the drinking water source for a quarter of Saskatchewan's population. The project is the first of its kind in Canada and more information is available at: <http://goo.gl/Xzru4T>.

Fedoruk Centre Appoints Executive Director

The **Sylvia Fedoruk Canadian Centre for Nuclear Innovation** has appointed a new executive director. On July 1st, **Neil Alexander** replaced interim executive director John Root. Alexander will lead the Fedoruk Centre in building Saskatchewan's nuclear research capacity, especially as it prepares to operate Saskatchewan's cyclotron on campus. More information is available at <http://goo.gl/XdPfEp>.

U of S Students Awarded Vanier Scholarships

Four U of S PhD students have each been awarded a \$150,000 **Vanier Canada Graduate Scholarship** in recognition of their academic excellence and leadership skills. The recipients are **Adam Crane, Jennifer McRuer, Oluwafemi Oluwole, and David Saunders**. More information is available at: <http://goo.gl/RYID8Q>.

Discovery Could Benefit Cystic Fibrosis Sufferers

U of S researchers, led by Juan Iwanowski (Physiology), have developed a new imaging technique that reveals a hitherto unknown immune system component in the lungs, one that promises insights that could benefit cystic fibrosis patients. More information is available at: <http://goo.gl/oE6ibB>.

New Industrial Research Chair Appointed

Matt Lindsay (Geological Sciences) has been appointed Industrial Research Chair in Mine Closure Geochemistry. Lindsay and student researchers will work towards informing more sustainable approaches to developing reclaimed oil sands landscapes. The position includes nearly \$1.4M from NSERC and industrial partner Syncrude. More information is available at: <http://goo.gl/4KPW5P>.

INITIATIVES

One Health Leadership Experience

Nearly 200 first- and second-year health-science students attended the third annual One Health Leadership Experience in August. The three-day conference included guest speakers and team-building exercises to help introduce students to interdisciplinary One Health approaches for addressing global health issues. More information is available at: <http://goo.gl/0lwopl>.

Grant Workshops for Researchers

Tri-Agency grant workshops were held in July to assist researchers in preparing applications to either SSHRC or NSERC. Approximately 100 U of S researchers attended the sessions which included guest speakers, panel discussions, and interactive writing sessions.

PARTNERSHIPS

International Guests Visit Campus

The U of S welcomed several visitors from international institutions throughout July and August. The visits included guests from partner universities and major newspapers in India, Brazil, and China.

Active Health Partnerships

The AVPR - Health office has recently completed projects with the following partners:

- ❖ Through a partnership with the **First Nation and Métis Health Service Unit** of the Saskatoon Health Region, the AVPR-H office completed the project "*First Nation and Métis Health Service: Navigation Services Literature Review*". An additional review of "*First Nation and Métis Individuals' Use of the Emergency Department*" was also completed.
- ❖ Through a partnership with the **Social Sciences Research Lab** (SSRL), the AVPR-H office completed an environmental scan and analysis of provinces' CIHR SUPPORT Unit business plans. Interviews were carried out with leaders from each SUPPORT Unit.

FUNDING SUCCESSES

NSERC Awards Researchers More Than \$8M

Forty-eight researchers from more than 20 departments were awarded **NSERC Discovery Grants**, providing nearly \$8M for U of S research. Five additional projects were awarded funding through **NSERC's Research Tools and Instruments Grant** for a total of over \$500,000. A complete list of researchers and their projects is available at: <http://goo.gl/CjbPkY>

NSERC Awards CREATE Grants

Two U of S researchers are co-investigators on recently successful **NSERC Collaborative Research and Training Experience (CREATE) Grants** worth \$1,650,000 each:

- ❖ **Jim Hendry** (Geological Sciences) is a co-investigator on the training program "*Training Towards Environmentally Responsible Resource Training*" awarded to David Blowes (U of Waterloo).
- ❖ **Phyllis Shand** (Food and Bioproduct Sciences) is a co-investigator on the training program "*The Canadian Meat Education and Training Network (MEaTnet) for Assuring Meat Safety and Quality*" awarded to Heather Bruce (University of Alberta).

\$2M for Health Research

Three U of S health projects were awarded a total of more than \$2M from CIHR's Open Operating Grant:

- ❖ **Sylvia Abonyi** (Community Health and Epidemiology) and **Sarah Oosman** (Physical Therapy) were awarded \$1,253,649 over 5 years for the project "*Wuskiwiw-tan! Let's Move! Aging Well in a Northern Saskatchewan Métis Community*" with co-investigators Nazeem Muhajarine (Community Health and Epidemiology), and Hassanali Vatanparast (Pharmacy and Nutrition).
- ❖ **Linda Chelico** (Microbiology and Immunology) was awarded \$580,720 over 5 years for the project "*The Virus Infectivity Factor (Vif) of HIV-1: Mechanisms of Inhibiting APOBEC3 Immune Factors*".
- ❖ **Elizabeth Quinlan** (Sociology) was awarded \$196,030 over 3 years for the project "*Ameliorating Workplace Harassment among Caregivers: Fostering Communicative Action and Ethical Practice through Participatory Theatre*" with co-investigators Beth (Ruth) Bilson (Law), and Isobel Findlay (Edwards).
- ❖ Additionally, **Deborah Anderson** (Oncology) was awarded \$100,000 in bridge funding for the project "*Targeting Metastatic Breast Cancer*" with U of S co-investigator Franco Vizeacoumar (Oncology).

Research Projects Sponsored

Three U of S projects secured over \$4M through contracts with sponsors:

- ❖ **Pierre Hucl** (Crop Development Centre) received \$2,740,288 under the National Wheat Improvement Program for the project "*Development of Next-Generation CWRS, CWAD and CWHW Germplasm and Cultivars at the Crop Development Centre to Meet Changing Markets and Climates*".
- ❖ **Adam Bourassa** (Physics and Eng. Physics) received \$250,000 from the **Canadian Space Agency** for the project "*Satellite Prototype Development of the Aerosol Limb Imager (ALI) Instrument*".
- ❖ **Andrew Potter** and **Volker Gerdts** (VIDO) received \$1,048,000 from the **Krembil Foundation** for the project "*Development of a Combination Vaccine against Respiratory Syncytial Virus and Parainfluenzavirus*".

Additional NSERC Awards

Four U of S researchers were awarded funding through additional NSERC programs:

- ❖ **Jeffrey McDonnell** (SENS) was awarded a \$120,000 **Discovery Accelerator Supplement Grant** for the project "*Runoff Generation Processes in Headwater Catchments: The Role of Storage and Release*".
- ❖ **Jeffrey Lane** (Biology) was awarded a \$75,000 **Discovery Northern Supplement Grant** for the project "*Life Cycles in the North: Phenological Variation Studied through Empirical Research and Traditional Ecological Knowledge*".
- ❖ **Ryan Brook** (Animal and Poultry Science) was awarded a \$78,000 **PromoScience Grant** for the project "*Aboriginal Youth Engagement in the Saskatchewan Farmland Moose Study*" with additional support from the Saskatchewan Ministry of Environment.
- ❖ **Tim Molnar** (Curriculum Studies) is participating with lead researcher Johanne Patry from Science on Stage Canada Inc. on the project "*Science on Stage Canada*" which was awarded a \$75,000 **PromoScience Grant**.

Fedoruk Centre Announces Research Grants

Six U of S researchers were successful in receiving a total of nearly \$1M in **Sylvia Fedoruk Canadian Centre for Nuclear Innovation (CCNI) Research Grants**:

- ❖ **Ildiko Badea** (Pharmacy) was awarded \$192,510 for the project "*Imaging Gene Delivery Nanoparticles Targeted to Melanoma*" with co-investigator Humphrey Fonge (Medical Imaging).
- ❖ **Ian Burgess** (Chemistry) was awarded \$187,450 for the project "*Neutron Reflectometry Studies of Biological Membranes and Corrosion Barriers*".
- ❖ **Gavin Cranmer-Sargison** (Oncology) was awarded \$141,777 for the project "*Investigating the Radiobiological Cell Response to High Energy Mini-Beam Irradiations*" with co-investigators Deborah Anderson and Vijayananda Kundapur (Oncology).
- ❖ **Akira Hirose** (Physics and Engineering Physics) was awarded \$119,600 for the project "*Control of Plasma Flow in STOR-M by RMP and CT Injection; Studies on Divertor Heat Flux in COMPASS*".
- ❖ **Yuanming Pan** (Geological Sciences) was awarded \$217,350 for the project "*Retention and Removal of Radionuclides (135Cs, 137Cs, 129I, 131I and 99Tc) From Water by Co-Precipitation of Phosphates and Carbonates*" with co-investigator John Tse (Physics and Engineering Physics).
- ❖ **Derek Peak** (Soil Science) was awarded \$127,650 for the project "*Biogeochemical Models of Oxyanions in Saskatchewan Uranium Mining Environments*" with co-investigator Joyce McBeth (Geo. Sciences).

Internal Funding Awarded

The U of S President's SSHRC (PSSHRC) and President's NSERC (PNSERC) awards provide financial support to assist researchers in preparing competitive SSHRC and NSERC applications. The results from May 2014 included:

- ❖ **PNSERC**: 16 successful applicants received up to \$10,000 each for a total of \$157,686 awarded.
- ❖ **PSSHRC**: 8 successful applicants received up to \$7,000 each for a total of \$50,772 awarded.

Students and PDF Awarded International Experiences

An undergraduate student, a doctoral candidate and a postdoctoral fellow were all the recipients of awards enabling international research.

- ❖ **Mobinul Huq** (Economics) received a \$5000 **Mitacs Globalink Research Award** for undergraduate student **Linghui Shan** for the project "*Social-economic Analysis on Gender Differences in Time Allocation in China*". Shan will be co-supervised by Dr. Chang Qing Li at Beijing Institute of Technology.
- ❖ **Hui Wang** (Chemical and Biological Engineering) received a \$5,000 **Mitacs Globalink Research Award** for doctoral student **Armin Moniri** for the project "*Bunsen Reaction study as a key step of H₂S Splitting cycle in Corning Advanced Flow Reactor*". Moniri will be co-supervised by Dr. Yue Zhang at Changzhou University and Dr. Bing Ma at Corning Reactor Technology Center.
- ❖ Postdoctoral Fellow **Michal Wesolowski** (Medical Imaging) was awarded a Burroughs Wellcome Fund 2014 **Collaborative Research Travel Grant** of \$10,000 for the project "*International Collaboration on the translation of quantitative 2D coded aperture phase contrast imaging from the synchrotron to the preclinical laboratory*" to work with Alessandro Olivo at University College London.

Support for International Projects

The following U of S researchers secured funding with their international partners:

- ❖ **Yanping Li** (SENS) and Chilean partners received \$15,000 from the **Canada-Latin America and the Caribbean Research Exchange Grants** program (LACREG) for the project "*Using Elqui Valley basin as an example to assess the water resources vulnerability of the Andes Western Slope under climate change background*".
- ❖ **Ken Coates** (Public Policy) and **Greg Poelzer** (ICNGD) collaborated with the Arctic University of Norway for the implementation of the "*Northern Norway / Saskatchewan GENI internship partner workshop*". The Norwegian Centre for International Cooperation in Education (SIU)'s High North Programme provided approximately \$35,000 to support the workshop.