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## SENATE STANDING COMMITTEE ON RESEARCH

**Regular Meeting**  
**Tuesday, November 28, 2023**  
**2:00 p.m. – 4:00 p.m.**  
**MS Teams Online**

### AGENDA

1. Call to Order and Territorial Acknowledgement .....Daniel Bernstein 2:00
2. Approval of Agenda
3. Approval of Minutes, October 24, 2023
4. Chair's Report ..... 2:05
5. Regular Reports .....
  - 5.1. Associate Vice-President, Research, Innovation and Graduate Studies..... Amit Shukla 2:10
  - 5.2. Working Groups
    - 5.2.1 SSCRGs Mandate Review (no report) .....Brett Favaro
    - 5.2.2 Research Advancement Strategy..... Daniel Bernstein 2:20
6. Items for Discussion.....
  - 6.1. Working Group on Definitions Update ..... Amit Shukla, Keith Leung 2:40
7. Adjournment .....

## SENATE STANDING COMMITTEE ON RESEARCH

Minutes of Regular Meeting

Tuesday, October 24, 2023

2:00 p.m. – 4:00 p.m.

MS Teams Online

Voting Member Quorum: 7		
Amit Shukla Daniel Bernstein, Chair Deborah Henderson Gayle Bedard Ishant Goyal Karen Meijer-Kline Leeann Waddington	Mandeep Pannu Paul Adams Shelley Boyd Sue Fairburn	
		<b>Non-voting</b> Catherine Schwichtenberg Taranum Sultana
Regrets	Senate Office	Guests
Alan Davis Brett Favaro, Vice-Chair	Sonia Banwait	Grace Parker Palidwor Nishan Perera

### 1. Call to Order and Territorial Acknowledgement

The Chair, Daniel Bernstein, called the meeting to order at 2:01 p.m.

### 2. Approval of Agenda

Amit Shukla requested to add discussion item 7.1. KPU Showcase Update.

**Leeann Waddington moved the agenda be confirmed as amended.**

**The motion carried.**

### 3. Approval of Minutes, September 26, 2023

**Daniel Bernstein moved the minutes be accepted as circulated.**

**The motion carried.**

### 4. Chair's Report

The Chair started by welcoming NGO and Non-Profit Studies student, Grace Parker Palidwor, as an observer.

The Chair informed that there will be a one-time release opportunity available to work on the soon-to-be-renamed White Paper for Spring 2024 with a call going out this Fall. He advised several committee members have volunteered to assist in the search committee.

He also provided an update on the two working groups, explaining that Mandate Review may not see many reports this year as extensive revisions to the mandate and membership were recently completed. It was also discussed that the KPU Definition of Research be included as an appendix in the revised White Paper.

Lastly, the Chair requested to strike a new SSCR working group that will collate faculty council reports on research progress and assist with revising the “White Paper”. He asked the committee to join himself and Amit Shukla to form the working group. Deborah Henderson and Karen Meijer-Kline volunteered themselves.

## **5. Regular Reports**

### **5.1. Associate Vice-President, Research, Innovation and Graduate Studies**

Amit Shukla, Acting Associate Vice-President, Research, Innovation, Graduate Studies, presented his report.

### **5.2. Working Groups**

#### **5.2.1. SSCRGS Mandate Review**

No report.

#### **5.2.2. Generating KPU Definition of Research**

No report.

## **6. Items for Information**

### **6.1. Create Your Research Design**

Nishan Perera, Director, Learning Technologies & Educational Development, shared that Teaching and Learning Commons has created a Pebble Pad based template workbook called “Create Your Research Design” to provide student researchers guidance in developing designs for their undergraduate research projects. He informed there are nine guided steps that will prompt students to critically think about their research approach and provided a brief explanation of each step. The link to the workbook is included in the package and available for committee members to use and disseminate to students.

### **6.2. KPUs White Paper Research – Rebrand & Rename**

The Chair shared that as the work for KPU’s White Paper on Research is resuming for the new academic year, now is the time to rebrand and rename the process to a more inclusive, culturally appropriate one that aligns with KPU’s values and research priorities. He opened the table to the committee for feedback.

The committee brainstormed naming options and after an engaging discussion, a member suggested to rename ‘White Paper’ to ‘KPU Research Advancement Plan’. Another member suggested to include “strategy” in the title, amending the name to ‘KPU Research Advancement

*Strategy and Plan*'. The committee noted that if approved, the old name be replaced wherever it is mentioned on associated documents.

**Leeann Waddington moved THAT the Senate Standing Committee on Research recommend that Senate approve the renaming of the 'White Paper' to 'KPU Research Advancement Strategy and Plan' effective November 20, 2023.**

**The motion carried.**

## **7. Items for Discussion**

### **7.1. KPU Showcase Update**

Amit Shukla provided an update on the KPU Showcase taking place in Spring 2024. He informed that the showcase date has been confirmed for March 19, 2024 and the theme of the event will be around sustainability. Committee members will be regularly informed of updates once a working committee has been formed to carry out the event.

## **8. Adjournment**

The meeting adjourned at 3:08 p.m.

## SENATE STANDING COMMITTEE ON RESEARCH

**Agenda Item: 5.1**

**Meeting Date:** *November 28, 2023*

**Presenter:** *Amit Shukla*

### **Associate Vice-President, Research and Innovation Report**

#### **FROM THE OFFICE OF THE AVP, RESEARCH AND INNOVATION (AVPRI)**

##### **DIVERSITY, EQUITY AND INCLUSION (DEI) GROUP SESSION**

The Office of AVP, Research and Innovation, in collaboration with Phronesis Consulting, arranged a group session on Diversity, Equity and Inclusion (DEI) for ORS on October 20, 2023. Dr. Deena Kotak Buckley was invited as a guest speaker for the presentation. Deena has worked for the Surrey and Vancouver school districts and as a secondary teacher in a public high school in Hong Kong. She has been on multiple district and ministry committees in support of inclusive education and anti-racism.

##### **KPU AGRICULTURAL SUMMIT**

Kwantlen Polytechnic University (KPU) hosted its inaugural Agricultural Summit on November 3, 2023, bringing together farmers, researchers, elected officials and industry representatives to explore farming challenges and opportunities in the Surrey area. The day-long summit included presentations from researchers from KPU and Simon Fraser University (SFU), along with input from more than 20 area farmers. Link to Today@KPU news coverage of the event is [here](#).

##### **IRISH DELEGATION'S KPU VISIT**

On November 8, 2023, an Irish delegation visited KPU. This meeting was organized by Polytechnics Canada. Amit Shukla, along with Dr. David Burns, Andhra Goundrey and Randall Heidt attended this meeting. The agenda included discussions on collaboration opportunities in curriculum development and research, tour of the Richmond Farm and Wilson School of Design, followed by an evening reception at BCIT campus.

#### **FROM THE OFFICE OF RESEARCH SERVICES**

##### **CITI Program Training Test Rollout for KPU Community**

ORS is pleased to provide an update on the recent rollout of CITI Program training for the KPU community for selected faculty and their research teams. This initiative is currently in its testing phase, designed to gather feedback and testimonials before potential expansion across the university. These courses cater to researchers involved in various fields, including social & behavioral, applied and clinical research. The program represents a significant step toward fostering a research integrity, ethics, and compliance culture. The training encompasses a variety

of courses, each designed to provide valuable insights and knowledge in different aspects of research ethics and compliance. The following CITI Program courses are offered

- Responsible Conduct of Research (RCR): This course equips researchers with knowledge and skills to navigate ethical issues in research, covering topics such as research integrity, data management, authorship, and conflicts of interest. It provides best practices for doing research for our faculty and research staff. It differs significantly from TCPS and broadly addresses best practices in research not limited to human ethics only.
- Social and Behavioral Ethics: This course covers informed consent, privacy, confidentiality, and the handling of sensitive data. It is particularly valuable for researchers working with human subjects.
- Transportation of Dangerous Goods/ International Air Transport Association (TDG/IATA): Essential for research involving hazardous materials transportation, this course ensures compliance with regulations, safeguarding community well-being and environmental standards.

These courses have been generously sponsored through Health Research BC and have been aligned with Canadian regulations and policies by the Network of Networks (N2) Canada. We are dedicated to continuously improving the training experience and plan to offer workshops attached to the first two courses to include scenarios relevant to social, behavioral and applied research. Moreover, we also offer a comprehensive clinical research course package as a commitment to promoting high-quality clinical research within our university community.

### **SUPPORTING ENTA: KPU SPEAKER SERIES: DON'T PUSH MY BUTTONS**

ORS supported ENTA's KPU Speaker Series with information on SRIG Grants and their benefits for enrolled and perspective students. The event took place on November 15, 2023. Pamphlets and posters were illustrating the relevance of the SRIG grant to ENTA's needs, aligning with our ongoing commitment to provide tailored support to students and departments.



## **FROM THE RESEARCH ETHICS BOARD**

### **REB MEMBERSHIP UPDATES**

The REB is pleased to announce the appointments of two new REB members for 2-year terms:

- Dr. Tanjeem Azad – Faculty member
- Rylen Moore – Community member

## **FROM THE ANIMAL CARE COMMITTEE**

### **ACC MEMBERSHIP UPDATES**

As of November 1, 2023, Heather O'Brien from the Farrier Science Program has joined the ACC, replacing Gerard Laverty, who has now retired from KPU.

The ACC continues their search for a second community member (someone who is not involved in animal use for research, teaching or testing and has no affiliation with KPU, other than former undergraduate students). Further information is available by contacting Kate Cooper, Animal Care Coordinator, at [ORS@kpu.ca](mailto:ORS@kpu.ca).

### **ANNUAL SITE VISITS**

The ACC performed their annual site visits to both the Surrey Fish Facility and the Farrier Science Facility on November 7, 2023, and is gearing up for the Canadian Council on Animal Care Assessment Visit taking place on November 29 and 30, as well as their fall/winter meeting on December 7.

## **FROM KPU'S RESEARCH LABORATORIES, CENTRES, AND INSTITUTES**

### **APPLIED GENOMICS CENTRE (AGC) – EVENTS**

- October 14, 2023 – KPU Surrey open house. AGC employees engaged with prospective students and community members by hosting tours and activities in the lab.
- October 14, 2023 – annular solar eclipse event held at the Richmond campus. AGC employees contributed to this event as AGC representatives.

### **APPLIED GENOMICS CENTRE – STAFFING UPDATES**

The AGC hired two more student research assistants. Working on various projects that support the research goals of the AGC under an NSERC IE Build Program, these students will benefit from experiential learning and practical training opportunities while studying at KPU.

### **APPLIED GENOMICS CENTRE – NEW RECENT GRADUATE INTERNSHIP**

Jaden Lewis was hired as an animal care technician and Aquarium Facility Supervisor using funding from the ORS under a Recent Graduate Internship.

### **APPLIED GENOMICS CENTRE – FUNDING ADVANCEMENT**

On July 17, 2023, Paul Adams, the Director of the Applied Genomics Centre (AGC) was awarded a \$278,000 grant from the BC Salmon Restoration and Innovation Fund (BCSRIF), Fisheries and Oceans Canada (DFO). This funding will allow the AGC to work with the Abbotsford Animal Health Centre on developing molecular tests specific to *Aeromonas salmonicida* -- a pathogenic bacterium that severely impacts salmonid populations, and other fish species. This work will

include performing whole genome sequencing (WGS) for several *Aeromonas* species, including *A. salmonicida*.

### APPLIED GENOMICS CENTRE – PRESENTATIONS

- October 20, 2023 – Mathias Schuetz, KPU biology faculty gave a presentation at the BC Craft Brewers Guild: [https://youtu.be/uhMuQ\\_8zO5c?si=fR4qDYxoy6XGpc5w](https://youtu.be/uhMuQ_8zO5c?si=fR4qDYxoy6XGpc5w)
- October 20, 2023 – Mathias Schuetz, KPU biology faculty working on the hops breeding project, was feature in a CBC article: <https://www.cbc.ca/news/canada/british-columbia/bc-hops-industry-variety-beer-1.7003683>
- November 3, 2023 – Taylor Chin, AGC Research Technician, was featured in the KPU news for her work studying the genes associated with aging. Taylor is a 2023 graduate of KPU’s Bachelor of Science program, with a major in Health Science and minor in Biology. [KPU grad finds success researching how to turn back the clock | KPU.ca - Kwantlen Polytechnic University](#)
- November 3, 2023 – Paul Adams gave a presentation at the KPU Agriculture Summit about how AGC is advancing ag-tech solutions.

### INSTITUTE FOR SUSTAINABLE FOOD SYSTEMS – EVENTS

- ISFS hosted a pumpkin celebration event for the Tsawwassen First Nation community on October 28 with the pumpkins grown in the Farm Schools.



- ISFS hosted an end-of-the-year celebration event with the incubator farmers. Four representatives from Coast Capital (donor), one representative from the [Zimbabwe Cultural Society of British Columbia \(ZICUSO\)](#), Mr. Steve Lewarne, Executive Director from KPU Foundations, and twelve incubator farmers had attended the event. Calendars featuring photos of our incubator farmers and farm event were prepared and distributed to the



participants to promote KPU and the program.



### **INSTITUTE FOR SUSTAINABLE FOOD SYSTEMS – STAFFING UPDATES**

Shannon Hanson, Indigenous Foodways Outreach Facilitator at ISFS was on board on October 19, 2023.

### **INSTITUTE FOR SUSTAINABLE FOOD SYSTEMS – FUNDING ADVANCEMENT**

- ISFS received the Climate Action Events Award from Pacific Institute for Climate Solutions with \$5,000 funding in October 2023. The awarded funding will support ISFS to coordinate a regional farmer dialogue in the Comox Valley to gather farmer priorities for building drought resilience capacity. The project lead is Naomi Robert.
- ISFS received \$3,000 from Farmfolk Cityfolk to support Naomi Robert’s research project aimed at the development of food policy and climate change platforms to inform provincial party platform development in the 2024 election.

### **INSTITUTE FOR SUSTAINABLE FOOD SYSTEMS –**

- Members of the Zimbabwe Cultural Society of British Columbia (ZICUSO BC) joined our KPU Farm Schools program as incubator farmers. A [YouTube video](#) was produced with ZICUSO and published on October 14, 2023 to show their experience as immigrant farmers under the farm school program.
- Podcast recording of “Beyond GPD Redefining progress for Canadian food system policy”, research project conducted by Naomi Roberts, was featured on the “Handpicked Podcast: Stories from the field” produced by Wilfred Laurier University on October 16, 2023. Link: [Handpicked: Stories from the Field \(libsyn.com\)](#)
- Wallapak Polasub was interviewed by the [Georgia Straight](#) (free newspaper) on October 23, 2023 for the November-December 2023 print edition. The article title is “When money is tight, food is often the first necessity that falls away. We still treat food as a commodity.”



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She shares 📖 When money is tight, food is often the first necessity that falls away. "We still treat food as a commodity."

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## Acknowledgment

The Office of the AVP, Research and Innovation acknowledges funding from the federal Research Support Fund in support of its operations and services.

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## SENATE STANDING COMMITTEE ON RESEARCH

**Agenda Number:** 6.1

**Meeting Date:** November 28, 2023

**Presenter(s):** Amit Shukla, Keith Leung

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**AGENDA TITLE:** WORKING GROUP ON DEFINITIONS UPDATE

**ACTION REQUESTED:** Discussion

**RECOMMENDED RESOLUTION**

**N/A**

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### COMMITTEE REPORT

For Secretariat Use Only

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#### Context and Background

The Working Group on Definitions related to Research has developed the Nomenclature Related to Research, Innovation, and Scholarship. The document aims to capture existing definitions to inform KPU's decisions. It will help researchers identify suitable definitions for their diverse forms of research, innovation, scholarship, and creative endeavours, and utilize them in funding applications. The ORS will refer to this document in the administration of research funds, research ethics, other research compliance matters, and reporting. The final draft version has been completed and is now presented to the committee for discussion.

#### Key Messages

Definitions related to Research have been developed and will be used to inform KPU's decisions going forward.

#### Consultations

1. Daniel Bernstein
2. Amy Jeon
3. Christina Page
4. Larissa Petrillo

5. Leeann Waddington
6. Rajiv Jhangiani
7. Gayle Bedard
8. Kamala Nayer
9. Steve Chan

**Attachments**

Nomenclature Related to Research, Innovation, and Scholarship V20Oct2023.docx

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**Submitted by**

Amit Shukla, AVP pro tem, Research and Innovation

Keith Leung, Research Facilitator

**Date submitted**

November 17, 2023

# Nomenclature Related to Research, Innovation, and Scholarship

Prepared by: Deepak S. Gupta and Keith Leung

Draft Revised: November 21, 2023

## 1 Context and Preamble

- To avoid reinventing the wheel, the definitions and descriptions in this document have been adopted or vetted from credible and authoritative sources. The various terms contained in this document are not always mutually exclusive and there is significant overlap.
- These terms are not meant to police or constrain the creativity of members of the KPU community. KPU community members enjoy academic freedom to engage in research, scholarship, and innovation with the usual responsibilities that come with it. KPU community members engage in diverse forms of research, innovation, and scholarship. All members of the KPU members ought to be able to see their creative endeavours reflected in one or more ways in this document.
- The terms will be primarily used for administrative purposes (e.g. tracking and reporting). These include administering of research funds, research ethics, other research compliance matters, and for reporting. Use of certain terms is often driven by context.
- Competencies and learning outcomes related to these definitions will be more useful for our educators. These are being worked on. Illustrative examples from what we already do at KPU in each Faculty or School that embody above definitions and bring them to life will also be useful.
- Fostering research, innovation, and scholarship across KPU will further academic excellence. Our engagement in these activities represent KPU at its best.

## 2 Executive Summary

	Term	Definition	Sourced from
1	Research	Research is defined as an undertaking intended to extend knowledge through a disciplined inquiry or systematic investigation.	Tri-Council Policy Statement 2 (2022), Statistics Canada, and <a href="#">Canadian Research and Development Classification (CRDC) 2020 Version 1.0</a>
2	Scholarship	Scholarship is a diverse undertaking that includes extending knowledge, integrating knowledge across disciplines, bridging theory and practice, communicating one’s knowledge effectively to learners, and contributing new ways to artistic knowing.  By undertaking scholarly activities, scholars update their knowledge and maintain currency in any given field.	Scholarship Reconsidered: Priorities of the Professoriate by Ernest L. Boyer, Updated and Expanded by Drew Moser, Todd C. Ream, John M. Braxton, and Associates.

## 3 Definitions for Research, Innovation, and Experimental Development

These definitions below have been sourced from credible and authoritative external sources such as the Government of Canada and the Organisation for Economic Co-operation and Development (OECD). They enjoy wide acceptance, and are the outcome of discussions and consensus.

No.	Term	Definition
1	Research	Research is defined as an undertaking intended to extend knowledge through a disciplined inquiry or systematic investigation. <sup>1</sup>
2	Research and Experimental Development	Research and experimental development (R&D) comprise creative and systematic work undertaken in order to increase stock of knowledge - including knowledge of humankind, culture, and society – and to devise new applications of available knowledge <sup>2</sup> .  For an activity to be considered an R & D activity, it must satisfy five core criteria: novel, creative, uncertain, systematic, and transferable and/or reproducible.
3	Applied Research	Applied research is original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily towards a specific, practical aim or objective. <sup>3</sup>

<sup>1</sup> See Policy RS1 - Research Involving Human Participants (Kwantlen Polytechnic University, 2012) and Tri-Council Policy Statement (Canadian Institutes of Health Research, Natural Sciences and Engineering Research Council of Canada, and Social Sciences and Humanities Research Council of Canada, 2022)

<sup>2</sup> See OECD (2015) and Statistics Canada (2020)

<sup>3</sup> See “Glossary of terms” of OCED (2015)

4	Basic Research	Basic research is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view. <sup>4</sup>
5	Experimental Development	Experimental development is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. <sup>5</sup>
6	Innovation	An innovation is a new or improved product or process (or combination thereof) that differs significantly from the unit's previous products or processes and that has been made available to potential users (product) or brought into use by the unit (process). <sup>6</sup>
7	Undergraduate Research	Undergraduate research is a mentored investigation or creative inquiry conducted by undergraduates that seeks to make a scholarly or artistic contribution to knowledge. <sup>7</sup>
8	Research Creation	Research creation is an approach to research that combines creative and academic research practices, and supports the development of knowledge and innovation through artistic expression, scholarly investigation, and experimentation. The creation process is situated within the research activity and produces critically informed work in a variety of media (art forms). <sup>8</sup>
9	Primary or Original Research	Primary or original research involves the collection of original data specific to a particular investigation. <sup>9</sup>
10	Secondary Research	Secondary research uses existing (or secondary) sources of data specific to a particular investigation and for a purpose other than the primary research purpose. Secondary research includes systematic reviews of "existing research using explicit, accountable rigorous research methods" <sup>10 11</sup> .
11	Indigenous research	Indigenous research involves research in any field or discipline that is conducted by, grounded in or engaged with First Nations, Inuit, Métis or other Indigenous nations, communities, societies or individuals, and their wisdom, cultures, experiences or knowledge systems, as expressed in their dynamic forms, past and present. Indigenous research can embrace the intellectual, physical, emotional and/or spiritual dimensions of knowledge in creative and interconnected relationships with people, places and the natural environment. <sup>12</sup>

<sup>4</sup> See "Glossary of terms" of OCED (2015)

<sup>5</sup> See "Glossary of terms" of OCED (2015)

<sup>6</sup> See OECD/Eurostat (2018)

<sup>7</sup> See Council for Undergraduate Research (n.d.)

<sup>8</sup> See definition of "Research-creation" in Social Sciences and Humanities Research Council of Canada (2021)

<sup>9</sup> See Gratton & Jones (2010)

<sup>10</sup> See Canadian Institutes of Health Research, Natural Sciences and Engineering Research Council of Canada, and Social Sciences and Humanities Research Council of Canada. (2022), Gratton & Jones (2010), and Thomas & Gough (2017)

<sup>11</sup> For the secondary use of data that may contain identifiable information and human biological materials, researchers are required to consult the Research Ethics Board.

<sup>12</sup> See definition of "Indigenous Research" in Social Sciences and Humanities Research Council of Canada (2021)

## 4 Definitions for Scholarship

### 4.1 Adapting Boyer’s Model

In 2017, a KPU Working Group explored definitions for research and scholarship. Building on that group’s work<sup>13</sup>, scholarship at KPU follows the definition of Edward Boyer’s 1990 notion of knowledge acquisition, with the addition of the Scholarship of Creativity to the original four categories as defined below.

No.	Term	Definition	Overlap with Research
1	Scholarship of Discovery	Scholarship of discovery is the generation of new knowledge through original, inquiry-based research or creation of original works.	Basic/discovery research
2	Scholarship of Integration	Scholarship of integration is the synthesis, analysis, and critical appraisal of the research or creative works of others.  Integration scholarship seeks to find meaningful patterns within isolated facts and fragmentary knowledge. Such scholarship is often interdisciplinary or multidisciplinary in nature.	Inter-disciplinary research
3	Scholarship of Application and Engagement	Scholarship of application and engagement is the application of knowledge to consequential problems at the level of individuals, institutions, communities, and society.  These applications (also be thought of as service) should derive from one’s field of expertise. Service scholarship is a serious and challenging activity and should be measured with the same seriousness and accountability as traditional research.	Applied Research
4	Scholarship of Teaching and Learning	Scholarship of teaching and learning is the systematic study of teaching and learning to understand how teaching can maximize learning, and/or develop a more accurate understanding of learning.  The scholarship of teaching and learning uses established or validated criteria of scholarship and results in products that are publicly shared for critique and use by an appropriate community. <sup>14</sup>	Research into Teaching and Learning

<sup>13</sup> See “Scholarship at KPU” in Kwantlen Polytechnic University (2017)

<sup>14</sup> See Potter and Kustra (2011)



5	Scholarship of Creativity	<p>Scholarship of creativity involves the cultivation of new knowledge and new ways of thinking through artistic practice and the development of theories about art, art education and cultural worlds<sup>15</sup>.</p> <p>Creativity scholarship produces research outputs by bringing the dominant academic tools (i.e., written papers, monographs) and artistic tools together. Examples of artistic tools include visual art exhibitions, media production, design, music, etc, through which knowledge creation, analytical and critical concerns are expressed<sup>16</sup>.</p>	Research-creation
6	Scholarly Teaching	<p>Scholarly teaching<sup>17</sup> involves consulting the literature, selecting and applying appropriate information to guide the teaching-learning experience, conducting systematic observations, analyzing the outcomes, and obtaining peer evaluation of their classroom performance.<sup>18</sup></p> <p>Scholarly teaching is based on practice wisdom which is developed by reflection on experience and published research. Scholarly teaching tends to be focused on effective teaching rather than on student learning.</p>	

## 4.2 Values and Ethics

An individual scholar’s research or scholarly activities may also be motivated or informed by various values<sup>19</sup>. Values informing scholarship (e.g. generosity) can be multiple and overlapping (rather than buckets). Scholars can associate their research and scholarly activities with values that have influenced their work.

As stated in [Pulling Together: A Guide for Researchers](#), ethics in Indigenous communities are considered to be a set of practices and social behaviour based on values. For example, Indigenous research ethics<sup>20</sup> generally respect leadership and require developing trusting relationships and often resonate with the values of honour,

<sup>15</sup> See Cohen (2010)

<sup>16</sup> See Cohen (2015) and Loveless (2019)

<sup>17</sup> See Martin (2007)

<sup>18</sup> See Richlin (2001)

<sup>19</sup> See Fitzpartick (2021)

<sup>20</sup> See Biin, Canada, Chenoweth, & Neel (2021)

trust, honesty, and humility. They often embrace a commitment to collectivism and a respectful relationship with the land.

## 5 Research Assessments

Following the recommendation of KPU’s Senate Standing Committee on Research and Graduate Studies, the Senate at its meeting on Monday, March 23, 2020 endorsed the [San Francisco Declaration on Research Assessment](#) (DORA).<sup>21</sup> As of November 19, 2021, 20,670 individuals and organizations in 150 countries have signed DORA to date, including all major federal funding agencies. As noted on their website, DORA’s vision is to advance practical and robust approaches to research assessment globally and across all scholarly disciplines.

## 6 Descriptions Related to Knowledge Systems

	Term	Description
1	Indigenous Ways of Knowing	Indigenous ways of knowing emphasize an approach to knowledge that is metaphysical, holistic, oral/symbolic, relational, and intergenerational. Note that there is no single Indigenous way of knowing <sup>22</sup> .
2	Western (Eurocentric) Ways of Knowing	Western (Eurocentric) ways of knowing are ways of knowing by breaking into disciplines, and relying on mathematics, linguistics, logic, rationality, objectivity, and the measurement of observable phenomenon. Note that there is no single Western way of knowing <sup>23</sup> .
3	Eastern Ways of Knowing	The Eastern ways of knowing are diverse. Common themes include <i>holism</i> that stresses the interconnectedness between experience and objective reality, knowledge and social praxis, <i>relationalism</i> that views thoughts as products of human relationships, <i>human-heartedness</i> that emphasizes the importance of bettering fellow human beings through knowledge acquisition, and <i>goal-oriented</i> that focuses on accomplishing goals through cognition. The definitions were adapted from scholarly work on Chinese <sup>24</sup> and Indian epistemology <sup>25</sup> .

## 7 Acknowledgements

We wish to acknowledge input received from Daniel Bernstein, Amy Jeon, Christina Page, Larissa Petrillo, Leeann Waddington, Rajiv Jhangiani, Gayle Bedard, Kamala Nayer, Steve Chan.

<sup>21</sup> See San Francisco Declaration on Research Assessment (2013)

<sup>22</sup> See Stinson (2018)

<sup>23</sup> See Stinson (2018)

<sup>24</sup> See Liu (2017) and Rosker (2008)

<sup>25</sup> See Arnold (2008) and Clemens (2020)

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