



Multidisciplinary Research Symposium

6:30 pm, March 29, 2018

Polish Institute of Arts and Science 4220 rue Drolet

Keynote Speakers: Jonathan Durand and Dr. Ryszard Grygorczyk

Free event followed by refreshments

Topics include: linguistics, music, biology, computer science and literature

Program

Keynote speaker #1

Hemolysis is a primary mechanism of adenosine triphosphate (ATP) release in human red cells

Ryszard Grygorczyk, PhD, Professor, Faculty of Medicine, University of Montreal,
& Centre de recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM)

The oxygen required to meet metabolic needs of all tissues is delivered by the red blood cells (RBCs), which are small, flexible cell that are packed with oxygen-carrying protein hemoglobin. Matching oxygen supply with demand in specific tissues is accomplished by dynamic regulation of blood flow via changes of vessel caliber. During exercise or hypoxia, the increase of vessel caliber is triggered by the release of ATP from RBCs by unknown mechanism. Our study has demonstrated the somewhat surprising finding that the major source of ATP in this case is local disruption (lysis) of old RBCs. This fascinating observation suggests a major new role for the aging RBCs.

Presenter #1

The Influences of Organizational Readiness for Change on the Clinicians' Work Experience Following the Transition to a Newly Constructed Single Patient Room Adult Intensive Care Unit.

Molecular Biologist, Clinical Nurse Specialist, Executive Member of the Quebec Nursing Association, McGill Nursing Alumni Association and member of the Polish Institute of Arts and Science. Mr. Magdzinski is a nurse researcher and equally has published work in molecular biology. He currently works as a registered nurse in Internal Medicine at Jewish General Hospital in Montreal and is involved in various nursing advocacy initiatives in the province of Quebec. He specialized in organizational based change and evidence based hospital unit design during his Masters.

Describing how ICU clinicians were prepared for the transition to a novel single patient room (SPR) from a multi patient room and how readiness for this change influenced their work experience during this transition.

Presenter #2

Migration stories and contexts: How the *Sybiracy* structure their experiences and how this can inform the lives of current refugees

Amanda Chalupa, MSc, is a PhD candidate in Social and Transcultural Psychiatry at McGill University. She is funded by the Social Sciences and Humanities Research Council of Canada Graduate Scholarship "to honour Nelson Mandela".

During WWII, hundreds of thousands of Polish citizens were deported from the Soviet-occupied eastern territory to slave labour camps in "Siberia". Following liberation in 1941, many made their way to refugee camps around the world. Since 2008, I have conducted interviews, participated in reunions and commemorations, and explored archives to piece together their history and understand how they rebuilt their lives. The results of this work suggest that welcome practices can have a lasting effect on newcomers, contexts of recall relate to how we structure our lives and memories, and refugee camp design has the potential to help build social networks and a sense of community.

Presenter #3

How to talk about music and gender in Polish Musicology

Marta Beszterda. PhD student in Musicology and Gender & Women's Studies.

Contrary to Western scholarship, Polish musicology so far has expressed very little interest in the problem of gender in classical music. One of the most influential periods shaping the status of women composers in present Polish musicological studies was the communist era (1945–1989). During this period the contemporary Polish classical music canon was formed, and the status of women in Polish society was negotiated around the official gender equality agenda imposed by the communist authorities, the characteristic organization of labor, and the problematic position of feminism. The aim of this research is to evaluate the role of this heritage in an effort to construct a theoretical framework of gender in Polish music scholarship. Moreover, it seeks to understand the differences in the study of gender and classical music between Eastern Europe and the West.

Presenter #4

Illuminating the Human Microbiome

Ryszard Kubinski. President of MPSA. BSc Pharmacology U2. Undergraduate Researcher at McGill University.

The gut microbiome is essential to human physiology but its understanding is complicated by its large diversity across individuals. Metabolism of food-derived complex glycans by gut bacteria is critical in shaping the composition of the microbiota. We aim to understand glycan metabolism on a molecular-level using fluorescent glycans, which we hypothesize will label consuming species. Towards this aim the growth of representative gut bacteria *Klebsiella oxytoca*, *Bacteroides fragilis* and *Bacteroides thetaiotaomicron* with different glycan sources was first characterized. Fluorescently-labeled fructo-oligosaccharide was also prepared. The uptake of the fluorescent glycan in cultured isolates and then stool samples, as microbiota proxies will then be evaluated. Glycan metabolism might one-day guide interventions designed to manipulate the composition of the microbiota with health benefits.

Presenter #5

Conceptual Blending in fairy tale therapy

Magdalena Iach

Jagiellonian University in Cracow/ Université de Montréal

The aim of the thesis is to analyse how conceptual blends- metaphors are used in the fairy tale therapy. Briefly, the conceptual blending theory explains how we create metaphors, and a therapeutic fairy tale familiarizes children with an illness or another problem such as the lack of confidence. The conceptual blending will be used to analyse how an illness of a child is transposed into a fairy tale, what representation is given to a child, an illness and an environment, as well as to understand what can be done for a child to simplify his path through the illness.

Presenter #6

Analyse de Six Moments Musicaux Op. 16 de S. Rachmaninoff dans l'aspect : historique, formel et exécutif.

Justyna Gabzdyl, M.Mus, D.Mus. Pianiste

Ce travail est une analyse perspicace d'un cycle de six morceaux pour piano solo, écrit par le compositeur russe S.Rachmaninoff dans la période précoce de sa création artistique. Les chapitres font l'objet de la description de la miniature instrumentale dans l'époque du Romantisme, des sources d'inspiration de S. Rachmaninoff pendant la composition du cycle, de l'analyse des morceaux dans l'aspect formel, de la description des traits principaux du style du compositeur et de la description des problèmes liés à l'exécution de Six Moments Musicaux Op.16 en tant que cycle.

Presenter #7

Cognitive Architectures in Use

Julian Skirzynski – MSc Computer Science M1.

Cognitive Science deals with the issue of how people perceive the world around them and what processes govern the act of perception. This talk focuses on what are cognitive architectures, why they play a significant role in gathering evidence in favor of representational theories and how we can apply them in practice.

Presenter #8

Lyudmila Petrushevskaya's Fairy Tales: Between Tradition and Metafiction

Izabela Zdun, McGill University

On the example of Lyudmila Petrushevskaya's fairy tales, my doctoral research explores the functions and changes that the fairy tale genre has acquired in and exerted on genre studies today. More specifically, my doctoral research focuses on 1) the implications of the intertwining of orality and literacy and the presence of folklore as such in contemporary Russian literature; 2) the changes of the distinguishing fairy tale elements in contemporary Russian fairy tales, and their implications in terms of genre studies; 3) the functions contemporary Russian fairy tales have assumed, including their sociopolitical dimension.

Keynote speaker #2

Filming Memory: Turning Stories Into History

Jonathan Durand is a Montreal-based filmmaker & photographer. "Memory Is Our Homeland" is his first feature documentary film.

Although the documentary film "*Memory Is Our Homeland*" has been formally in the making for 2 years, its creation is rooted in a much deeper past. The film centres on a grandson's search for his family's "lost" history, and how this search led to a bigger quest to make sense of what happens to history when it's erased. Jonathan Durand has traveled around the world collecting pieces from archives, interviews, and the personal documents of former Polish refugees. They had grown up in Africa after having been deported to Siberia at the start of WWII. During this keynote, we will watch selected moments from "*Memory Is Our Homeland*" and discuss the processes involved in its creation, as both personal and professional endeavours. We will address questions such as: How do we know what truth is, and why does that matter? Beyond the stories a family tells, where does one begin a search to make sense of their histories? How might the processes of searching change over time?