



CANADIAN
JOURNAL
of UNDER
GRADUATE
RESEARCH

Seaquestration

In the Southern Ocean,
iron fertilization presents a
potential solution to mitigating
anthropogenic climate change (p.16)

AUGUST 2020 VOL 5(1)

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Hearts of glass

Much risk and room for
improvement remain for
artificial heart design (p.4)

Uphill struggle

Transporting water droplets
by Leidenfrost effect prove
disappointing (p.7)

CANADIAN JOURNAL *of* UNDERGRADUATE RESEARCH

A student-led publication that aims to highlight research by undergraduate students of all disciplines

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COURTESY OF THE Undergraduate Research Opportunities, University of British Columbia, Vancouver

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Letter from the editor-in-chief



It is my pleasure and great privilege to present to you Volume 5 Issue I of the Canadian Journal of Undergraduate Research (CJUR). Throughout the years, we at CJUR have made it our mission to support undergraduates across Canada by providing them the opportunity to share their research, experience the peer-reviewed publishing process, and engage in multidisciplinary academic dialogue.

Since our founding in 2015, we have received immense positive feedback from numerous students, professors, and organizations in the academic community. We have increased both the number and diversity of submissions, enhanced our peer-review process, and headed new initiatives with the aim of reaching out to more undergraduates from more universities. The journal also features a distinguished editorial board comprised of students who are passionate about research and academic discourse. Over the course of two years, we have led multiple recruitment events and have built a database consisting of strong reviewers that have a vital role in the peer-review process. Through our ongoing efforts, we plan to continue seeing CJUR grow over the years.

This issue contains submissions from the University of British Columbia, McGill University, Western University, Quest University Canada, and Simon Fraser University. Each manuscript has undergone two extensive review stages by graduate students and professors specializing in the respective field of research.

In this issue, we discuss a diverse range of topics, from the advances in the technology of different artificial hearts to the effects of marine iron fertilization. Each manuscript reflects the dedication and efforts that undergraduates put into their research, and I hope you join us in celebrating their work.

Thank you for your continued support and I hope you enjoy Volume 5 Issue I.

Yours sincerely,

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Microbiology & Immunology

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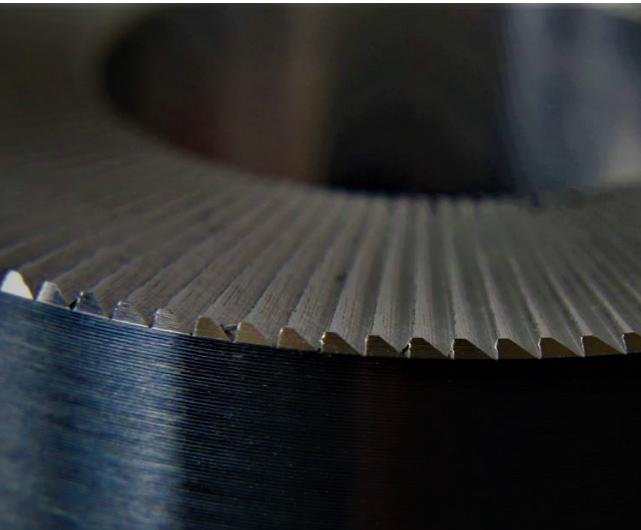
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August 2020

Volume 5, Issue 1

REVIEW

The artificial heart: medical improvements on infections and strokes

Lavatharshan Aramboo

p. 6

RESEARCH

Engine efficiency of a Leidenfrost droplet transport system

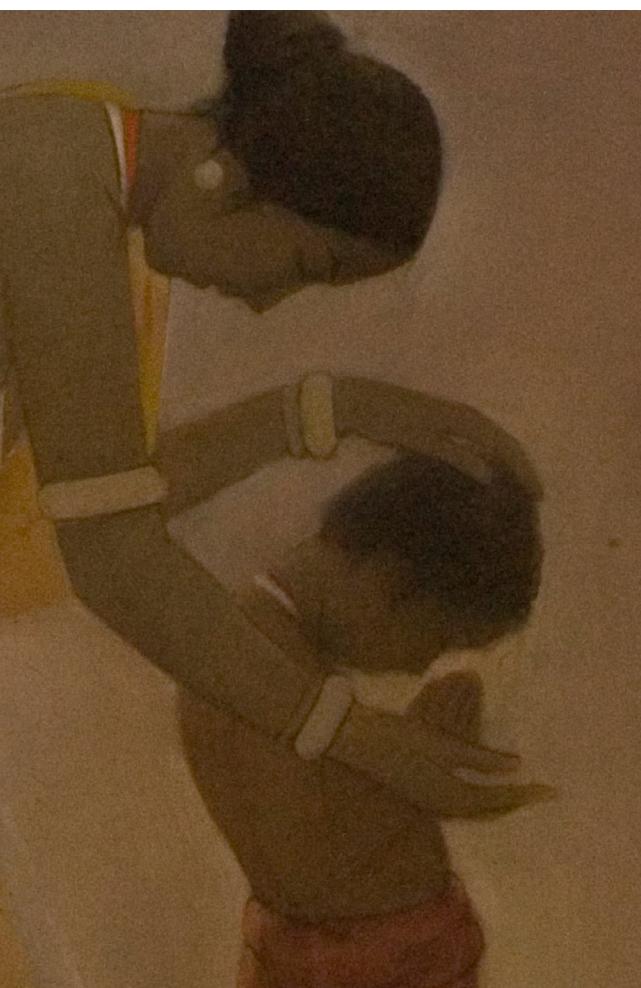
Elyse Arseneau & Lucas Philipp p. 12

REVIEW

Bangladesh's unlikely attainment of the 4th Millennium Development Goal

Marisa Coulton

p. 23



COVER

European Space Agency, *Baltic blooms* (2019).

TOP

Brightfusion Ltd., *Leidenfrost Effect Ring* (c. 2016).

BOTTOM

Jamini Roy, *Mother and Child* (1920).

REVIEW

Marine iron fertilization: effects on phytoplankton carbon uptake

Valerie Fowles

p. 28



REVIEW

Economic factors contributing to universal health coverage in the BRIC countries

Cameron Feil

p. 36



REVIEW

Judges' views on offences against under-aged sex workers: a Canadian perspective

April Miin Miin Chai

p. 42



REVIEW

'Post-truth' politics: a threat to American democracy?

Allison Fettes

p. 48

TOP

Ilya Repin, *The Surgeon Evgeny Vasilievich Pavlov in the Operating Theatre* (1888).

MIDDLE

Honoré Daumier, *A Meeting of Lawyers* (c. 1860).

BOTTOM

Frederick Burr Opper, *The fin de siècle newspaper proprietor* (1894).