

su

Having trouble viewing this email? [View it in your browser.](#)

# PHYSIOLOGY

# NEWSLETTER

OCTOBER - DECEMBER 2020

## NEWS

### QS 2020 world ranking



The National University of Singapore is ranked 20th on the subject Anatomy & Physiology in the latest QS 2020 world ranking. Kudos everyone!

**A/Prof Lina Lim has been appointed Assistant Dean (Enterprise)**

### Impressive journal cover image



A/Prof. Alfredo Franco-Obregon's work was featured as cover picture on Advanced Biosystems Volume 4 Issue 11.

**A/Prof Manoor Prakash Hande has been appointed as Assistant Dean- Designate (Safety/Research)**

## Facilities Management)



Hearty congratulations to A/Prof Lim and we wish her the very best in her new role!



Hearty congratulations to A/Prof Hande and we wish him the very best in his new role!

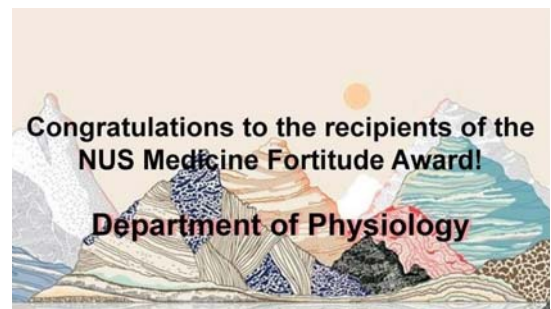
# AWARDS

## Faculty of Science Teaching Excellence Award AY 2019/2020



Congratulations to A/Prof. Thai Tran and Dr. Ivan Low who are awarded Faculty of Science Teaching Excellence Award AY 2019/2020.

## NUSMed Fortitude Award



Congratulations to Prof. Shazib Pervaiz, A/Prof. Celestial Yap, A/Prof. Koh Dow Rhoon, Dr. Chen Zhi Xiong and Ms. Michelle Chan Bi Xiu for their commitment and dedication to support the teaching of NUS Medicine students during the initial months of the COVID-19 pandemic.

## QuantumTx won the innovation product of the year award



QuantumTx, an NUS spinoff founded by A/Prof. Alfredo won the innovation product of the year award at the Ageing Asia World Ageing Festival, First Virtual Ageing Month by Ageing Asia. Congratulations QuantumTx!

## Distinguished Woman Researcher in Epigenetics



Prof. Reshma Taneja received the prestigious Venus International Women Award which honours great achievements of women in science. She was recognized as a Distinguished Woman Researcher in Epigenetics. Hearty Congratulations Prof. Reshma!

# MEDIA COVERAGE

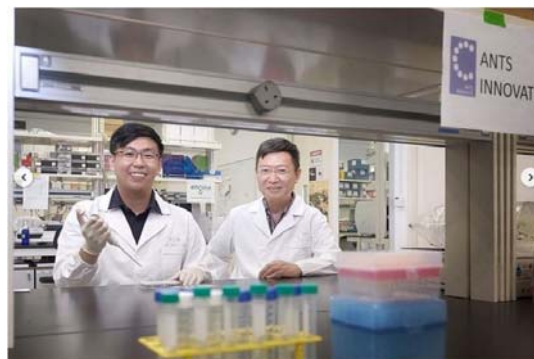
## A/Prof Jason Lee featured on Straits Times on 5 Nov 2020



The Covid-19 pandemic has resulted in more front-line workers having to wear PPE for a prolonged period of time. PHOTO: NG TENG HONG/GENERAL HOSPITAL

A/Prof. Jason Lee was interviewed for his

## Prof Harry Yu featured on The Straits Times on 21 Nov 2020



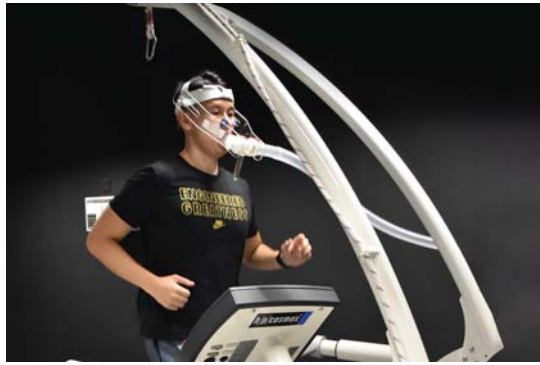
Founders of Ants Innovate Ong Shujian (left) and Harry Yu in their lab in Biopolis. The company specialises in cell-based research. ST PHOTO: GAIAN TOH

Prof. Harry Yu and NUS Physiology

findings published on International Journal of Environmental Research and Public Health on heat-induced symptoms and discomforts while wearing PPE for prolonged hours.

[Click here for more](#)

### A/Prof Jason Lee featured on MediCine Issue 36



A/Prof Jason Lee was featured on People of Medicine, MediCine issue 36, titled "Keeping Cool in the Heat of Things".

[Click here for more](#)

### A/Prof Jason Lee featured on FIRST by CAA, Australia



A/Prof Jason Lee was featured on Issue 3 (Dec 2020) of The Council of Ambulance Authorities new industry magazine 'FIRST by CAA', page 66-69.

[Click here for more](#)

alumni Ong Shujian were featured in The Straits Times for their work on cell-based meat.

[Click here for more](#)

### A/Prof Jason Lee featured on news.com.au



A/Prof Jason Lee was interviewed for his expertise in heat stress by news.au.com on 27 November 2020.

[Click here for more](#)

### A/Prof Jason Lee featured on Straits Times on 8 Dec 2020



The project will identify policy changes that can be made to reduce the impact of heat on those with more physically intensive jobs. NSTC/ST FILE

A/Prof. Jason Lee was interviewed for his project that identify policy changes that can be made to reduce the impact of heat on those with more physically intensive jobs.

[Click here for more](#)

# PROMOTION

**2 staff were promoted**



Congratulations to See Huimin and Wong Hooi Ling that were promoted from January 2021!

# NEW ADDITION

**A/Prof. Mahmoud Pouladi**



Let us welcome A/Prof. Mahmoud Pouladi and his lab members to the Physiology family from 1 January 2021.

## PUBLICATIONS

### [Loss of TDP-43 in astrocytes leads to motor deficits by triggering A1-like reactive phenotype and triglial dysfunction](#)

Peng AYT, Agrawal I, Ho WY, Yen YC, Pinter AJ, Liu J, Phua QXC, Koh KB, Chang JC, Sanford E, Man JHK, Wong P, Gutmann DH, Tucker-Kellogg G, Ling SC.

Proc Natl Acad Sci U S A. 2020 Nov 17;117(46):29101-29112. doi: 10.1073/pnas.2007806117. Epub 2020 Oct 30.

[Abstract](#)

### [Deregulated expression of a longevity gene, Klotho, in the C9orf72 deletion mice with impaired synaptic plasticity and adult hippocampal neurogenesis](#)

Ho WY, Navakkode S, Liu F, Soong TW, Ling SC.

Acta Neuropathol Commun. 2020 Sep 4;8(1):155. doi: 10.1186/s40478-020-01030-4.

[Abstract](#)

### [Characteristics of Physical Fitness and Cardiometabolic Risk in Chinese University Students with Normal-Weight Obesity: A Cross-Sectional Study.](#)

Tian Q, Wang H, Kaudimba KK, Guo S, Zhang H, Gao S, Wang R, Luan X, Lee JKW, Chen P, Liu T, Wang R.

Diabetes Metab Syndr Obes. 2020 Nov

[Abstract](#)

### [Heat Stress and Thermal Perception amongst Healthcare Workers during the COVID-19 Pandemic in India and Singapore.](#)

Lee J, Venugopal V, Latha PK, Alhadad SB, Leow CHW, Goh NY, Tan E, Kjellstrom T, Morabito M, Lee JKW.

Int J Environ Res Public Health. 2020 Nov 3;17(21):8100.

[Abstract](#)

### [Efficacy of Ingesting an Oral Rehydration Solution after Exercise on Fluid Balance and Endurance Performance](#)

Fan PW, Burns SF, Lee JKW.

Nutrients. 2020 Dec 15;12(12):3826. doi: 10.3390/nu12123826.

[Abstract](#)

### [Serine-70 phosphorylated Bcl-2 prevents oxidative stress-induced DNA damage by modulating the mitochondrial redox metabolism](#)

Chong SJF, Iskandar K, Lai JXH, Qu J, Raman D, Valentin R, Herbaux C, Collins M, Low ICC, Loh T, Davids M, Pervaiz S.

Nucleic Acids Res. 2020 Dec 16;48(22):12727-12745. doi: 10.1093/nar/gkaa1110.

[Abstract](#)

### [Resveratrol attenuates TLR-4 mediated inflammation and elicits therapeutic potential in models of sepsis](#)

Wang B, Bellot GL, Iskandar K, Chong TW, Goh FY, Tai JJ, Schwarz H, Wong SC, Pervaiz S.

Sci Rep. 2020 Nov 2;10(1):18837. doi: 10.1038/s41598-020-74578-9.

[Full Text](#)

### [LAMA4 upregulation is associated with high liver metastasis potential and poor survival outcome of Pancreatic Cancer](#)

Zheng B, Qu J, Ohuchida K, Feng H, Chong SJF, Yan Z, Piao Y, Liu P, Sheng N, Eguchi D, Ohtsuka T, Mizumoto K, Liu Z, Pervaiz S, Gong P, Nakamura M.

Theranostics. 2020 Aug 13;10(22):10274-10289. doi: 10.7150/thno.47001.

[Abstract](#)

### [Involvement of STAT5 in Oncogenesis](#)

Halim CE, Deng S, Ong MS, Yap CT.

Biomedicines. 2020 Aug 28;8(9):316. doi: 10.3390/biomedicines8090316.

[Abstract](#)[Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis](#)

Celik C, Franco-Obregón A, Lee EH, Hui JH, Yang Z.

Acta Biomater. 2021 Jan 1;119:169-183. doi: 10.1016/j.actbio.2020.10.039. Epub 2020 Oct 29.

[Abstract](#)[Sustained IKK \$\beta\$  Phosphorylation and NF- \$\kappa\$ B Activation by Superoxide-induced Peroxynitrite-mediated Nitrotyrosine Modification of B56 \$\gamma\$ 3 and PP2A Inactivation,](#)

Yi Hui Yee, Stephen Jun Fei Chong, Li Ren Kong, Boon Cher Goh, Shazib Pervaiz, Redox Biology, 2020, 101834, ISSN 2213-2317

[Full Text](#)[Project Coolbit: Can your watch predict heat stress and thermal comfort sensation?](#)

Negin Nazarian, Sijie Liu, Manon Kohler, Jason Kai Wei Lee, Clayton Miller, Winston TL Chow, Sharifah Badriyah Badriyah Alhadad, Alberto Martilli, Matias Quintana, Lindsey Sunden

Accepted Manuscript

[Abstract](#)[Personal assessment of urban heat exposure: a systematic review](#)

Negin Nazarian, Jason Kai Wei Lee

Accepted Manuscript

[Abstract](#)[A Digital CRISPR-based Method for the Rapid Detection and Absolute Quantification of Viral Nucleic Acids.](#)

Xiaolin Wu, Cheryl Chan, Yie Hou Lee, Stacy L. Springs, Timothy K. Lu, Hanry Yu medRxiv 2020.11.03.20223602

[Abstract](#)



[EHMT2 epigenetically suppresses Wnt signaling and is a potential target in embryonal rhabdomyosarcoma](#)

Pal A, Leung JY, Ang GCK, Rao VK, Pignata L, Lim HJ, Hebrard M, Chang KT, Lee VK, Guccione E, Taneja R.  
eLife. 2020 Nov 30;9:e57683.

[Abstract](#)

Visit us on the web at [Physiology](#).

Contents: IT Committee

Design: IT Committee and vectors design from [Freepik](#)