Having trouble viewing this email? View it in your browser.

PHYSIOLOGY NEWSLETTER

JANUARY - MARCH 2020

NEWS

Emergency Response Core Team

In the midst of COVID-19 situation, Physiology Emergency Response Core Team has been working hard. Kudos to this team.

Professor Reshma Taneja
Associate Professor Herbert Schwarz
Associate Professor Manoor Prakash
Hande
Associate Professor Thai Tran
Dr Zakaria Ali Moh. Almsherqi
Tan Boon Choo, Diana
Chan Bixiu Michelle
H'ng Shiau Chen
Ong Yeong Bing
Uma Thambiayah

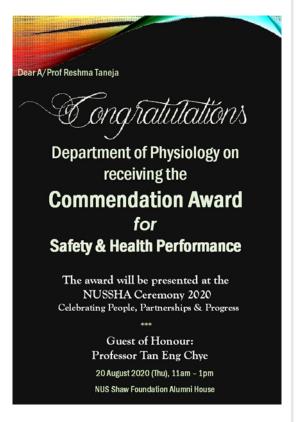
AWARDS

Yong Loo Lin School of Medicine Research Excellence Award for AY2018/2019

Commendation Award for Health and Safety Performance at NUSSHA 2020



Congratulations to Dr Ling Shuo-Chien who has been awarded Yong Loo Lin School of Medicine Research Excellence Award for AY2018/2019



Congratulations to Physiology for receiving the Commendation Award for Health and Safety Performance at NUSSHA 2020. Please join us to congratulate our entire Safety Team led by Associate Professor Manoor Prakash Hande and Dr Zakaria Ali Moh. Almsherqi!

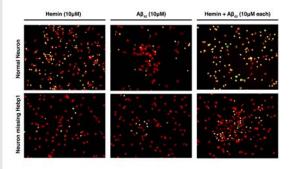
Swee Liew-Wadsworth Research Publication Awards



Click <u>here</u> to view winners of Swee Liew-Wadsworth Research Publication Awards.

MEDIA COVERAGE

Assistant Professor John Chua was on the news!



Assistant Professor John Chua Jia En, his former PhD student Dr Oleksandr Yagensky, and collaborators published an article about the potential early marker of AD, heme-binding protein 1 (Hebp1), in the prestigious open-access journal eLife. The team of researchers presented strong evidence to support a role for Hebp1 in the development and progression of AD, encompassing findings in both preclinical models and postmortem brains of AD patients.

News Coverage:

NUS Medicine News

EVENTS

Chinese New Year Celebration



The department celebrated Chinese New Year on 4 February 2020 with Lantern Festival quiz and festive food.

PROMOTION

Promotion to Full Professor



Congratulations to Professor Reshma Taneja who has been promoted from Associate Professor to Full Professor!

PUBLICATIONS

Inhibition of Histone Deacetylase Reinstates Hippocampus-Dependent Long-Term Synaptic Plasticity and Associative Memory in Sleep-Deprived Mice

Wong L-W, Chong YS, Wong WLE, Sajikumar S

Cerebral Cortex. 2020 Mar 16. bhaa041. doi: 10.1093/cercor/bhaa041

Full Text

Maternal factor NELFA drives a 2C-like state in mouse embryonic stem cells

Hu Z, Tan DEK, Chia G, Tan H, Leong HF, Chen BJ, Lau MS, Tan KYS, Bi X, Yang D, Ho YS, Wu B, Bao S, Wong ESM, Tee WW.

Nature Cell Biology. 2020 Feb;22(2):175-186. doi: 10.1038/s41556-019-0453-8. Epub 2020 Jan 13.

Abstract

Cytoskeletal Proteins in Cancer and Intracellular Stress: A Therapeutic Perspective

Ong MS, Deng S, Halim CE, Cai W, Tan TZ, Huang RY, Sethi G, Hooi SC, Kumar AP, Yap CT.

Cancers (Basel). 2020 Jan 18;12(1). pii: E238. doi: 10.3390/cancers12010238.

Abstract

Autophagy Modulators: Mechanistic Aspects and Drug Delivery Systems

Tavakol S, Ashrafizadeh M, Deng S, Azarian M, Abdoli A, Motavaf M, Poormoghadam D, Khanbabaei H, Afshar EG, Mandegary A, Pardakhty A, Yap CT, Mohammadinejad R, Kumar AP.

Biomolecules. 2019 Sep 25;9(10). pii: E530. doi: 10.3390/biom9100530.

Abstract

Targeting autophagy using natural compounds for cancer prevention and therapy

Deng S, Shanmugam MK, Kumar AP, Yap CT, Sethi G, Bishayee A. Cancer. 2019 Apr 15;125(8):1228-1246. doi: 10.1002/cncr.31978.

Abstract

5 of 8 4/10/2021, 11:45 am

CD137 negatively affects "browning" of white adipose tissue during cold exposure

Srivastava RK, Moliner A, Lee E-S, Nickles E, Sim E, Liu C, Schwarz H and Ibáñez CF Journal of Biological Chemistry. 2020 Feb 14;295, 2034-2042. doi: 10.1074/jbc.AC119.011795.

Abstract

CD151 in Respiratory Diseases

Wong AH, Tran T

Front Cell Dev Biol. 2020 Feb 7;8:64. doi: 10.3389/fcell.2020.00064. eCollection 2020. <u>Abstract</u>

Adaptor Protein Regulation in Immune Signalling

Verma NK, Tran T and Kelleher D

Frontiers in Immunology. 2020 Mar 13. doi: 10.3389/fimmu.2020.00441 Full Text

The relevance of soluble CD137 in the regulation of immune responses and for immunotherapeutic intervention

Luu K, Shao Z, Schwarz H

J Leukoc Biol. 2020 Feb 13. doi: 10.1002/JLB.2MR1119-224R

Abstract

CD137 ligand interacts with CD32a to trigger reverse CD137 ligand signaling

Zeng Q, Soe YM, Lim Y, Sobota RM, Schwarz H

Cell Mol Immunol. 2020 Feb 19. doi: 10.1038/s41423-020-0370-6

Abstract

Destroy, what destroys you

Luu K, Nickles E, Schwarz H

Oncoimmunology. 2019 Nov 3;9(1):1685301. doi: 10.1080/2162402X.2019.1685301. eCollection 2020.

Full Text

IL-13-driven alterations in hepatic cholesterol handling contributes to hypercholesterolemia in a rat model of minimal change disease

Low LD, Lu L, Chan CY, Chen J, Yang HH, Yu H, Lee CGL, Ng KH, Yap HK. Clin Sci (Lond). 2020 Jan 31;134(2):225-237. doi: 10.1042/CS20190961. Abstract

6 of 8 4/10/2021, 11:45 am

Superoxide induced inhibition of death receptor signaling is mediated via induced expression of apoptosis inhibitory protein cFLIP

Hirpara JL, Subramaniam K, Bellot G, Qu J, Seah S, Loh T, Tucker-Kellogg L, Clement MV, Pervaiz S.

Redox Biol. 2020 Feb;30:101403. doi: 10.1016/j.redox.2019.101403. Full Text

Targeting Mitochondrial Apoptosis to Overcome Treatment Resistance in Cancer

Ngoi NYL, Choong C, Lee J, Bellot G, Wong ALA, Goh BC, Pervaiz S. Cancers (Basel). 2020 Mar 2;12(3). pii: E574. doi: 10.3390/cancers12030574 Abstract

Targeting Cell Metabolism as Cancer Therapy

Ngoi NYL, Eu JQ, Hirpara J, Wang L, Lim JSJ, Lee SC, Lim YC, Pervaiz S, Goh BC, Wong ALA.

Antioxid Redox Signal. 2020 Feb 10;32(5):285-308. doi: 10.1089/ars.2019.7947. Abstract

Mitochondrial Dysfunction in Age-Related Metabolic Disorders

Natarajan V, Chawla R, Mah T, Vivekanandan R, Tan SY, Sato PY, Mallilankaraman K. Proteomics. 2020 Mar 4:e1800404. doi: 10.1002/pmic.201800404. <u>Abstract</u>

UPCOMING EVENTS

- 1. NUS-CMU Joint Symposium, 15- 16 June 2020
- 2. 2nd Pan-Asia Symposium on Genetics of Brain Disorders 2020, 13-15 July 2020
- 3. <u>APMEC 2021, 2</u>0-24 Jan 2021

Visit us on the web at Physiology

7 of 8 4/10/2021, 11:45 am

Contents: IT Committee

Design: IT Committee and vectors design from gstudioimagen / Freepik