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PHYSIOLOGY

NEWSLETTER

APRIL - JUNE 2020

NEWS

A/Prof Sajikumar's article was featured in F1000 recommendations!



F1000 Faculty Reviews
Faculty Reviews are comprehensive, open access, topical reviews written by members of the prestigious Faculty. These peer reviewed articles provide context on emerging themes in biology and medicine.

3 Group III metabotropic glutamate receptors gate long-term potentiation and synaptic tagging/capture in rat hippocampal area CA2.
Dasgupta A, Lim YJ, Kumar K, Baby N, Pang KJK, Benoy A, Behnisch T, Sajikumar S. *elife*. 2020 Apr 20; 9 | **1 Recommendation**

The hippocampal formation is well known as being involved in certain forms of memory format. Area CA2 has been implicated in social recognition memory [1]. This is interesting...

RECOMMENDATIONS | ABSTRACT | COMMENTS

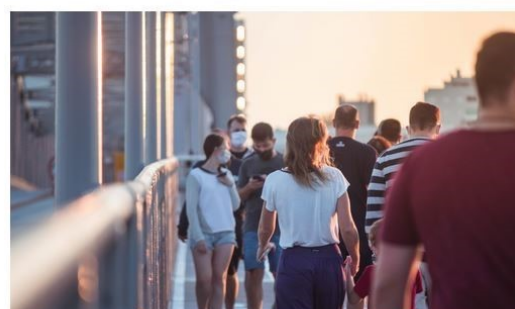
Rated **★ ★ ★ Exceptional** 22 May 2020

Richard GM Morris | Section Head
Neuroscience / Cognitive Neuroscience
University of Edinburgh
Edinburgh
Classified as

A/Prof Sajikumar's recent CA2 article published in *ELife* was recently recommended in F1000 by Prof Richard Morris, a renowned neuroscientist who developed the Morris Water Maze (MWM) and discovered the Synaptic Tagging Phenomena.

[Click here for more](#)

Global partnership urges stronger preparation for hot weather during COVID-19



Research A/Professor Jason Lee Kai Wei chaired the at the International Commission of Occupational Health and is part of a global team of researchers who investigated the potential impacts of COVID-19 on the heatwave management strategies of various communities.

[Click here for more](#)

Volunteers during COVID-19



Thank you so much the following Physio staff for coming forward to volunteer in hospitals and dormitories during Circuit Breaker.

- Karthik Mallilankaraman Babu
- Wong Lik Wei
- Dominic Paul Lee Kok Sheng
- Emily Pauline Nickles
- Katrianne Bethia Koh Jun Hui
- Lin Jia Le

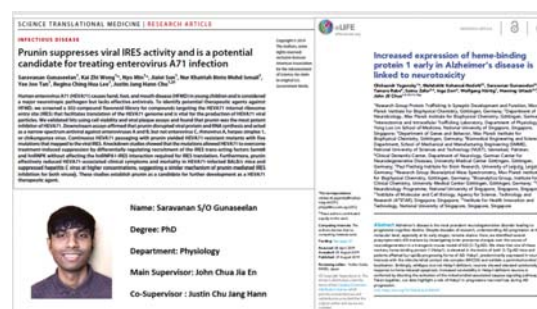
AWARDS

**Swee Liew-Wadsworth Research
Publication Awards**

**2020 Yeoh Seang Aun Prize in
Tuberculosis and Infectious
Diseases**



We are very pleased to announce the winners of the 2020 Swee Liew Wadsworth Grants. Please join us in congratulating all the winners!



Please join us to congratulate Saravanan Gunaseelan from Dr. John Chua's lab for winning the 2020 Yeoh Seang Aun Prize in Tuberculosis and Infectious Diseases for graduate students. Well done!

2020 Science Pitch Day



Congratulations to the winners for their excellent presentations at the 2020 Science Pitch Day. Kudos to the PGSS committee for a fantastic job in organizing this event too.

NUSMed 2020 Outstanding Mentor Award for Research Fellows



We are delighted that Dr. Wong Lik Wei from A/P Sajikumar Sreedharan's lab has received the NUSMed 2020 Outstanding Mentor Award for Research Fellows! Please join us in congratulating him and thank him for being an excellent mentor.

Best Graduate Research Publication Award 2020



Commendation Award for Health and Safety Performance at NUSSHA 2020



Congratulations to Lu Guang (supervised by Professor Shen Han Ming) for his excellent Publication!

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 A/P Manoor Prakash Hande and Dr Zakaria Ali Moh. Almsherqi!

PROMOTION

Promotion to Senior Manager



Congratulations to Ms. Diana Tan who has been promoted from Manager to Senior Manager!

PUBLICATIONS

[Influenza A virus-induced apoptosis and virus propagation](#)

Ampomah PB, Lim LHK.

Apoptosis. 2020 Feb;25(1-2):1-11. doi: 10.1007/s10495-019-01575-3.

[Abstract](#)

[Concurrent high-intensity aerobic and resistance exercise modulates systemic release of alarmins \(HMGB1, S100A8/A9, HSP70\) and inflammatory biomarkers in healthy young men: a pilot study](#)

Goh, J., Hofmann, P., Aw, N.H. et al.

transl med commun 5, 4 (2020).

[Abstract](#)

[Age-related bone loss is associated with FGF21 but not IGFBP1 in healthy adults](#)

Lee SY, Fam KD, Chia KL, Yap MMC, Goh J, Yeo KP, Yap EPH, Chotirmall SH, Lim CL.

Exp Physiol. 2020 Apr;105(4):622-631. doi: 10.1113/EP088351. Epub 2020 Feb 17.

[Abstract](#)

[Organoid cultures of MELAS neural cells reveal hyperactive Notch signaling that impacts neurodevelopment](#)

Winanto, Khong ZJ, Soh BS, Fan Y, Ng SY.

Cell Death Dis. 2020 Mar 13;11(3):182. doi: 10.1038/s41419-020-2383-6.

[Abstract](#)

[Group III metabotropic glutamate receptors gate long-term potentiation and synaptic tagging/capture in rat hippocampal area CA2](#)

Dasgupta A, Lim YJ, Kumar K, Baby N, Pang KKK, Benoy A, Behnisch T, Sajikumar S.

Elife. 2020;9:e55344. Published 2020 Apr 20. doi:10.7554/eLife.55344

[Abstract](#)

[Inhibition of Histone Deacetylase Reinstates Hippocampus-Dependent Long-Term Synaptic Plasticity and Associative Memory in Sleep-Deprived Mice](#)

Wong LW, Chong YS, Wong WLE, Sajikumar S.

Cereb Cortex. 2020 Jun 1;30(7):4169-4182. doi: 10.1093/cercor/bhaa041.

[Abstract](#)

[Wireless battery-free body sensor networks using near-field-enabled clothing](#)

Lin R, Kim HJ, Achavananthadith S, Kurt SA, Tan SCC, Yao H, Tee BCK, Lee JKW, Ho JS.

Nat Commun. 2020 Jan 23;11(1):444. doi: 10.1038/s41467-020-14311-2..

[Abstract](#)

[Effect of regular precooling on adaptation to training in the heat](#)

Choo HC, Peiffer JJ, Pang JWJ, Tan FHY, Aziz AR, Ihsan M, Lee JKW, Abbiss CR. Eur J Appl Physiol. 2020 May;120(5):1143-1154. doi: 10.1007/s00421-020-04353-1. Epub 2020 Mar 30.

[Full Text](#)

[Evaluating the effectiveness of labor protection policy on occupational injuries caused by extreme heat in a large subtropical city of China](#)

Su Y, Cheng L, Cai W, Lee JKW, Zhong S, Chen S, Li T, Huang X, Huang C. Environ Res. 2020 Jul;186:109532. doi: 10.1016/j.envres.2020.109532. Epub 2020 Apr 15.

[Abstract](#)

[Climate Change, Occupational Heat Stress, Human Health and Socio-Economic Factors](#)

Kjellstrom T., Oppermann E., Lee J.K.W. Handbook of Socioeconomic Determinants of Occupational Health pp 1-19

[Full Text](#)

[Pathophysiological Mechanisms by which Heat Stress Potentially Induces Kidney Inflammation and Chronic Kidney Disease in Sugarcane Workers](#)

Hansson E, Glaser J, Jakobsson K, Weiss I, Wesseling C, Lucas RAI, Wei JLK, Ekström U, Wijkström J, Bodin T, Johnson RJ, Wegman DH. Nutrients. 2020 Jun 2;12(6):1639. doi: 10.3390/nu12061639.

[Abstract](#)

[Biomimetic niches reveal the minimal cues to trigger apical lumen formation in single hepatocytes](#)

Zhang Y, De Mets R, Monzel C, Acharya V, Toh P, Chin JFL, Van Hul N, Ng IC, Yu H, Ng SS, Tamir Rashid S, Viasnoff V. Nat Mater. 2020 Apr 27. doi: 10.1038/s41563-020-0662-3. Online ahead of print.

[Abstract](#)

[Functional Stem Cell Sorting via Integrative Droplet Synchronization](#)

Sun G, Teng Y, Zhao Z, Cheow LF, Yu H, Chen CH.

Anal Chem. 2020 Jun 2;92(11):7915-7923. doi: 10.1021/acs.analchem.0c01312. Epub 2020 May 19.

[Full Text](#)

[A vascular-liver chip for sensitive detection of nutraceutical metabolites from human pluripotent stem cell derivatives](#)

Yu F, Goh YT, Li H, Chakrapani NB, Ni M, Xu GL, Hsieh TM, Toh YC, Cheung C, Iliescu C, Yu H.

Biomicrofluidics 14, 034108. doi: 10.1063/5.0004286

[Abstract](#)

[Regulation of aberrant proteasome activity re-establishes plasticity and long-term memory in an animal model of Alzheimer's disease](#)

Krishna-K K, Baby N, Raghuraman R, Navakkode S, Behnisch T, Sajikumar S.

FASEB J. 2020 May 27. doi: 10.1096/fj.201902844RR. Online ahead of print.

[Abstract](#)

[Magnetic fields modulate metabolism and gut microbiome in correlation with Pgc-1 \$\alpha\$ expression: Follow-up to an in vitro magnetic mitohormetic study](#)

Tai YK, Ng C, Purnamawati K, Yap JLY, Yin JN, Wong C, Patel BK, Soong PL, Pelczar P, Fröhlich J, Beyer C, Fong CHH, Ramanan S, Casarosa M, Cerrato CP, Foo ZL, Pannir Selvan RM, Grishina E, Degirmenci U, Toh SJ, Richards PJ, Mirsaidi A, Wuertz-Kozak K, Chong SY, Ferguson SJ, Aguzzi A, Monici M, Sun L, Drum CL, Wang JW, Franco-Obregón A.

FASEB J. 2020 Jul 6. doi: 10.1096/fj.201903005RR. Online ahead of print.

[Abstract](#)

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Contents: IT Committee

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