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# One PHYSIOLOGY

*A Mind for Science, A Heart for People*

Issue: July - September 2019



**NUSMed OE Continuous  
Improvement Project (CIP)  
Awards 2019**

**17th IMSPQ champion**



Congratulations to Tan Boon Choo Diana and her team for winning NUSMed OE Continuous Improvement Project (CIP) Awards 2019 - Excellence Award "Streamlining Event Management in NUS Medicine" for proposing a centralised event management structure in NUS Medicine and proposing to set up an Event Management Shared Services



NUS team have won the IMSPQ final and announced to be the 17th IMSPQ champion. This is the third championship for NUS since joining the competition. Congratulations Dr Zakaria for leading the group to another successful win!

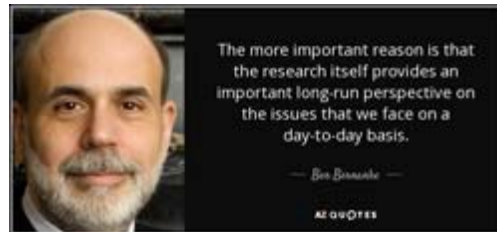
that would provide different channels of support for departments with event organisation needs.

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### Faculty of Dentistry - Excellence in Teaching Award AY2018/2019



Congratulations to Dr Chen Zhixiong who have been selected as a recipient of the Faculty of Dentistry - Excellence in Teaching Award AY2018/2019. This annual teaching award recognises colleagues for their consistently high quality and effective teaching in the Faculty of Dentistry in the last academic year.

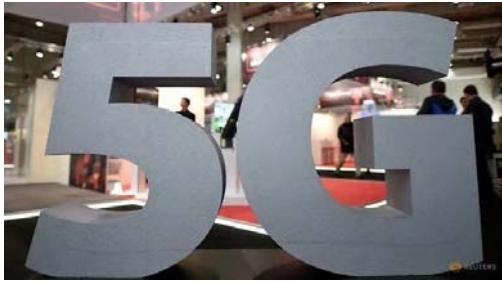


*“The more important reason is that the research itself provides an important long-run perspective on the issues that we face on a day-to-day basis.” -Ben Bernanke*

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## Media Coverage

**A/Prof Hande is on the news!**



Associate Professor Manoor Prakash Hande was featured on Channel News Asia on 18 July 2019 in article "FAQ: How worried should we be about the health risks of 5G?".

[Read the news on Channel Newsasia](#)



*"Technology and social media have brought power back to the people." - Mark McKinnon*



**Thiruma Valavan Arumugam -  
From Associate Professor to  
Associate Professor with tenure**



*"People don't get promoted for doing their jobs really well. They get promoted by demonstrating their potential to do more." - Tara Jaye Frank*

Congratulations to Associate Professor

Thiruma Valavan Arumugam on his successful P&T application.

## News & Events

### PGSS Committee 2018/2019



Thank you PGSS Committee 2018/2019. (Left to right) Chen Peishi, Elisa Marie Crombie, Upasana Bajaj, Cheong Hui Juan Dorothy and Poh Luting.

### Spill Management Training



Tan Shu Yi led Department Safety and Health Committee (DSHC) Spill Management Team in conducting Spill Management Training on 6 August 2019.

### Physiology Day 2019



Thank you Social Committee for another successful Physiology Day 2019.

### A/Prof Lim Kah Leong PI Seminar



A/Prof Lim Kah Leong delivered a PI Seminar on 16 Sep 2019 entitled "The Science of Life and Life of Science".

### 11th Models of Physiology and Disease Symposium 2019 and 2019

## International Perspectives on Geroscience Meeting



Congratulations to Dr John Chua and Dr Tsai Shih-Yin and the organizing committee for putting together a successful annual physiology symposium! Special thanks to Koh Shu Wen, H'ng Shiau Chen, Chong Pey Rou, Joo Wei Bing, Koh Kang Sheing Phoebe, Ngian Meixing Cheryl, Ang Seok Ting, Rafhanah Banu Bte Abdul Razar for helping out!

*"Let us never know what old age is. Let us know the happiness time brings, not count the years." - Ausonius*

[List of Awardees](#)

## Recent Publications

[Increased expression of heme-binding protein 1 early in Alzheimer's disease is linked to neurotoxicity.](#)

Yagensky O, Kohansal-Nodehi M, Gunaseelan S, Rabe T, Zafar S, Zerr I, Haertig W, Urlaub H, Chua JJE.

eLife. 2019 Aug 27;8:e47498. doi: 10.7554/eLife.47498.

[Abstract](#)

[Role of formyl peptide receptor 2 \(FPR2\) in the normal brain and in neurological conditions.](#)

Ong WY, Chua JJE.

Neural Regeneration Research. 2019 Dec;14(12):2071-2072. doi: 10.4103/1673-5374.262575.

[Full text](#)

### [Hepatic spheroids used as an in vitro model to study malaria relapse.](#)

Chua ACY, Ananthanarayanan A, Ong JJY, Wong JY, Yip A, Singh NH, Qu Y, Dembele L, McMillian M, Ubalee R, Davidson S, Tungtaeng A, Imerbsin R, Gupta K, Andolina C, Lee F, S-W Tan K, Nosten F, Russell B, Lange A, Diagana TT, Rénia L, Yeung BKS, Yu H, Bifani P.

Biomaterials. 2019 Sep;216:119221. doi: 10.1016/j.biomaterials.2019.05.032.

[Full text](#)

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### [Self-assembling amyloid-like peptides as exogenous second harmonic probes for bioimaging applications.](#)

Ni M, Zhuo S, Iliescu C, So PTC, Mehta JS, Yu H, Hauser CAE.

Journal of Biophotonics. 2019 Jun 4:e201900065. doi: 10.1002/jbio.201900065.

[Abstract](#)

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### [Studying nucleic envelope and plasma membrane mechanics of eukaryotic cells using confocal reflectance interferometric microscopy.](#)

Singh VR, Yang YA, Yu H, Kamm RD, Yaqoob Z, So PTC.

Nature Communications. 2019 Aug 13;10(1):3652. doi: 10.1038/s41467-019-11645-4.

[Full text](#)

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### [The Progress of Investigating the CD137-CD137L Axis as a Potential Target for Systemic Lupus Erythematosus.](#)

Mak A, Schwarz H.

Cells. 2019 Sep 6;8(9). pii: E1044. doi: 10.3390/cells8091044.

[Abstract](#)

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### [Deletion of CD137 Ligand Exacerbates Renal and Cutaneous but Alleviates Cerebral Manifestations in Lupus.](#)

Mak A, Dharmadhikari B, Kow NY, Thamboo TP, Tang Q, Wong LW, Sajikumar S, Wong HY, Schwarz H.

Frontiers in Immunology. 2019 Jun 26;10:1411. doi: 10.3389/fimmu.2019.01411.

eCollection 2019.

[Full text](#)

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### [Increased Akt-Driven Glycolysis Is the Basis for the Higher Potency of CD137L-DCs.](#)

Zeng Q, Mallilankaraman K, Schwarz H.

Frontiers in Immunology. 2019 Apr 24;10:868. doi: 10.3389/fimmu.2019.00868.

eCollection 2019.

[Full text](#)

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[Epstein-Barr virus-encoded LMP1 induces ectopic CD137 expression on Hodgkin and Reed-Sternberg cells via the PI3K-AKT-mTOR pathway.](#)

Priya Aravinth S, Rajendran S, Li Y, Wu M, Yi Wong AH, Schwarz H.

Leukemia & Lymphoma. 2019 May 6:1-8. doi: 10.1080/10428194.2019.1607330. [Epub ahead of print]

[Abstract](#)

[Mitochondria-Targeted Two-Photon Fluorescent Photosensitizers for Cancer Cell Apoptosis via Spatial Selectability.](#)

Ni Y, Zhang H, Chai C, Peng B, Zhao A, Zhang J, Li L, Zhang C, Ma B, Bai H, Lim KL, Huang W.

[Abstract](#)

[Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy.](#)

Zeng X, Chen S, Weitemier A, Han S, Blasiak A, Prasad A, Zheng K, Yi Z, Luo B, Yang IH, Thakor N, Chai C, Lim KL, McHugh TJ, All AH, Liu X.

Angewandte Chemie International Edition. 2019 Jul 1;58(27):9262-9268. doi: 10.1002/anie.201904208. Epub 2019 May 28.

[Abstract](#)

[A feedforward relationship between active Rac1 and phosphorylated Bcl-2 is critical for sustaining Bcl-2 phosphorylation and promoting cancer progression.](#)

Chong SJF, Lai JXH, Qu J, Hirpara J, Kang J, Swaminathan K, Loh T, Kumar A, Vali S, Abbasi T, Pervaiz S.

Cancer Letters. 2019 Aug 10;457:151-167. doi: 10.1016/j.canlet.2019.05.009. Epub 2019 May 17.

[Abstract](#)

[Cell signaling and fate through the redox lens.](#)

Pervaiz S.

Redox Biology. 2019 Aug 9:101298. doi: 10.1016/j.redox.2019.101298. [Epub ahead of print].

[Abstract](#)

[A novel scoring system for pivotal autophagy-related genes predicts outcomes after chemotherapy in advanced ovarian cancer patients.](#)

Niu Y, Sun W, Chen K, Fu Z, Chen Y, Zhu J, Chen H, Shi Y, Zhang H, Wang L, Shen HM, Xia D, Wu Y.

Cancer Epidemiology, Biomarkers & Prevention. 2019 Sep 18. pii: cebp.0359.2019. doi: 10.1158/1055-9965.EPI-19-0359. [Epub ahead of print]

[Abstract](#)

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Contents: A/Prof Lim Kah Leong, A/Prof Reshma Taneja, IT Committee

Design: IT Committee