

December 2018 || Issue#30

# Biochemistry

# BUZZ



Department of Biochemistry  
Yong Loo Lin School of Medicine



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## HOD's Message

Dear All,

It's the season for reflection. In fact, reflection is a good habit but we don't practise it frequently and deep enough in these times of rapid developments in the world, Asia-Pacific including Singapore as well as at NUS.

The collection of events found in this Biochemistry Buzz will help refresh our memories. I hope they will stimulate the end-of-the year reflection process. I have started my own which is guided by a single question: "How to be most effective in core areas of strengths". I am asking myself this question from the perspectives of the Head of Department, Program Director and Principal Investigator. It's a good exercise in efforts of 'alignment' and 'leverage'. We need to be good at both of these in order to realize the strengths which we bring into our partnerships.

Many thanks once again for all your dedication, hard work and contributions to the Department over throughout 2018. I wish you and your families Happy Holidays and all the best for the New Year 2019.

All the best,  
Markus



## Staff Promotion



**Dr Chen Ee Sin**

on his promotion to **Associate Professor** with tenure effective 1 January 2019

## Staff Awards



**Professor Barry Halliwell**

for being named in the *global Highly Cited Researchers 2018* list, released by Clarivate Analytics on 27 November 2018.



**Professor Jeyakumar Henry**

awarded the Grand Prix:  
**5th Niigata International Food Award, Japan**

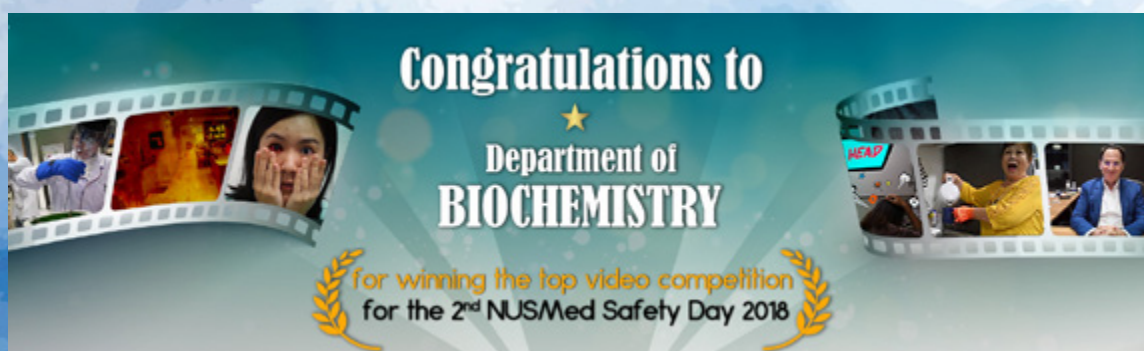
*This award is given to scientist who have made global contribution to food and nutrition.*



**A/P Too Heng-Phon**

is one of the NUS recipients for National Day Awards  
- **The Long Service Medal**

## Department Award



Click the links to see the videos;

1. [Lab Safety is everyone's responsibility.](#)
2. [Office Safety - Breathe safety, live safely.](#)



## Grant Awards

**\$230,750**

### **A/P Caroline Lee**

Novel Pharmacogenomic Panel for Predicting Response to Anti-Cholesterol Drug Statin - NUS ILO Technology Acceleration Programme (TAP) Grant

**\$1,498,000**

### **A/P Matthew Chang**

Singapore Consortium for Synthetic Biology

**USD 50,000**

### **A/P Yew Wen Shan**

Synthetic Remediation Biology: Chromium Upcycling for Environmental Sustainability (AOARD)

**\$680,540**

### **Dr Chen Ee Sin**

Genome-wide Regulation of histone H3Y41p to Safeguard Genomic Integrity - ARC (MOE) Meeting 2, 2018



## Grant Awards

### Dr Nguyen Nam Long

**\$825,228**

The roles of S1P transporter Mfsd2b in vascular and inflammatory disease - ARC (MOE) Meeting 2, 2018 (Feb 18 call)

**\$1,250,000**

Mechanisms of sphingosine-1-phosphate signaling in vascular health and disease (NMRC OFIRG)

### Dr Ling Hua

**\$1,784,280**

Synthetic Biology Research & Development Programme Call 2

Development of Platform Proprietary National Strains

# Student Awards

## Student Travel Fellowship Award – July 2018 Call

Each graduate student was awarded **\$2,500** to participate in a conference. All recipients have submitted a report on their experiences upon their return.

**Geraldine Tu Xue En**  
Supervisor:  
**A/P Too Heng-Phon**

2 – 4 December 2018  
Cedars-Sinai, Los Angeles, CA, USA

**Conference Title:**  
Cell Symposia : Translation of Stem  
Cells to the Clinic: Challenges and  
Opportunities

**Wong Wei Jie Garrett**  
Supervisor:  
**A/P Yew Wen Shan**

6 – 9 January 2019  
New Orleans, LA, USA

**Conference Title:**  
26th Enzyme Mechanism Conference

**Chia Ren Hui Derrick**  
Supervisor:  
**A/P Tang Bor Luen**

10 - 14 February 2019  
Fairmont Banff Springs, Banff,  
Alberta, Canada

**Conference Title:**  
Keystone Symposia on Molecular  
and Cellular Biology : Obesity and  
Adipose Tissue Biology

**Lim Lee Jin**  
Supervisor:  
**A/P Caroline Lee**

24 - 28 February 2019  
Whistler Conference Centre, Whistler,  
British Columbia, Canada

**Conference Title:**  
Keystone Symposia on Molecular  
and Cellular Biology: Long  
Noncoding RNAs: From Molecular  
Mechanism to Functional Genetics  
(X2)

## Student Conferment

**Jastrinjan Kaur, PhD**  
Supervisor:  
Professor Hong Wanjin  
Conferred Date:  
31-05-2018

**Lisa Borghini, PhD**  
Supervisor:  
Professor Markus Wenk  
Conferred Date:  
31-05-2018

**Kunde Ramamoorthy  
Govindarajan, PhD**  
Supervisor:  
A/P Tan Tin Wee  
Conferred Date:  
31-05-2018

**Kwok Wee Chiew, PhD**  
Supervisor:  
A/P Matthew Wook  
Chang  
Conferred Date:  
30-06-2018

**Liew Wen Chiy, PhD**  
Supervisor:  
A/P Prabha Sampath  
Conferred Date:  
30-06-2018

**Tabaglio Tommaso, PhD**  
Supervisor:  
A/P Ernesto Guccione  
Conferred Date:  
30-06-2018

**Rashmi Rajasabhai, PhD**  
Supervisor:  
A/P Yew Wen Shan  
Conferred Date:  
30-06-2018

**Chua Shu Xian Serene,  
MSc**  
Supervisor:  
A/P Marie-Veronique  
Clement  
Conferred Date:  
30-06-2018

**Wisna Novera, MSc**  
Supervisor:  
A/P Deng Lih Wen  
Conferred Date:  
31-07-2018

**Tan Yi Han, MSc**  
Supervisor:  
A/P Gan Yunn Hwen  
Conferred Date:  
31-07-2018

**Pham Hoang Long, PhD**  
Supervisor:  
A/P Matthew Wook  
Chang  
Conferred Date:  
31-08-2018

## New Student



**Loh Yuen Nee Yvonne**

Degree Programme: PhD

Main Supervisor: A/P Yew Wen Shan

Co-Supervisor(s): A/P Ivan Tham Weng Keong  
A/P Poh Chueh Loo



# New Staff

**Eng Wee Ling  
Gracie**



Research Associate

RO:  
**Dr Cheong Jit Kong**  
Date Joined:  
16-07-2018

**Shohei Kitano**



Research Fellow

RO:  
**A/P Matthew Chang**  
Date Joined:  
18-07-2018

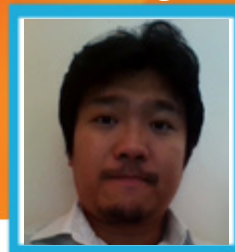
**Choo Li Shi  
Kimberly**



Research Assistant

RO:  
**A/P Yew Wen Shan**  
Date Joined:  
23-07-2018

**Daniel Teh Boon  
Loong**



Senior Research Fellow

RO:  
**Professor  
Brian Kennedy**  
Date Joined:  
01-08-2018

**Kwok Wee  
Chiew**



Research Fellow

RO:  
**A/P Matthew Chang**  
Date Joined:  
06-08-2018

**Liow Lu Ting**



Research Assistant

RO:  
**A/P Yew Wen Shan**  
Date Joined:  
06-08-2018

**Nguyen Quoc Toan**



Research Fellow

RO:  
**Dr Nguyen Nam  
Long**  
Date Joined:  
13-08-2018

**Salvador Gomez  
Carretero**



Research Fellow

RO:  
**A/P Yew Wen Shan**  
Date Joined:  
03-09-2018

**Yong Qian Ying  
Cheryl**



Research Assistant

RO:  
**A/P Tang Bor Luen**  
Date Joined:  
05-09-2018

**Ku Wei Kay,  
Joanne**



Research Assistant

RO:  
**A/P Gan Yunn Hwen**  
Date Joined:  
06-09-2018

**Tan Shu Ting**



Research Assistant

RO:  
**Dr Nguyen Nam  
Long**  
Date Joined:  
17-09-2018

**Heng Yu Chyuan**



Research Assistant

RO:  
**A/P Matthew Chang**  
Date Joined:  
26-09-2018

**Pazhanichamy  
Kalailingam**



**Research  
Fellow**

**RO:  
Dr Nguyen Nam  
Long  
Date Joined:  
20-11-2018**

**Regina Goh Jia  
Mei**



**Research  
Assistant**

**RO:  
Dr Jiang Jianming  
Date Joined:  
20-11-2018**

**Yeoh Jing Wui**



**Research Fellow**

**RO:  
A/P Yew Wen Shan  
Date Joined:  
01-11-2018**

**Chandrasekaran  
Ramya**



**Research  
Assistant**

**RO:  
A/P Yeong Foong  
May  
Date Joined:  
10-12-2018**

**Gee Kim Lai, Kim**



**Assistant  
Manager**

**RO:  
Ms Aniza Binte  
Abdul Wahid  
Date Joined:  
08-10-2018**

**Aniza Binte Abdul  
Wahid**



**Assistant  
Director**

**RO:  
A/P Matthew Chang  
Date Joined:  
01-10-2018**

# Student Travel Fellowship



## **DANIEL LIM RUI XIANG**

Graduate Study: PhD

Name of Supervisor:

**A/P Gan Yunn Hwen**

ASM Microbe 2018, 7-11 June 2018,  
Atlanta,  
Georgia, USA

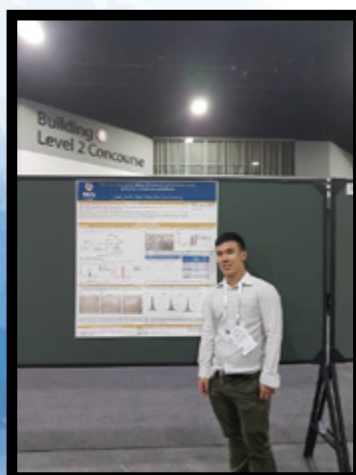
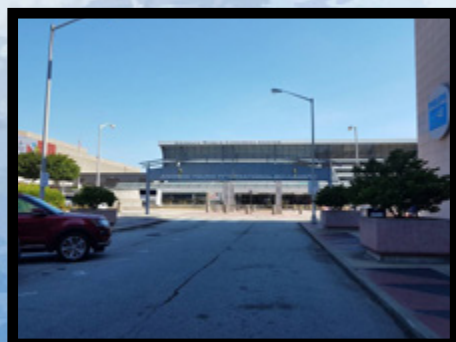


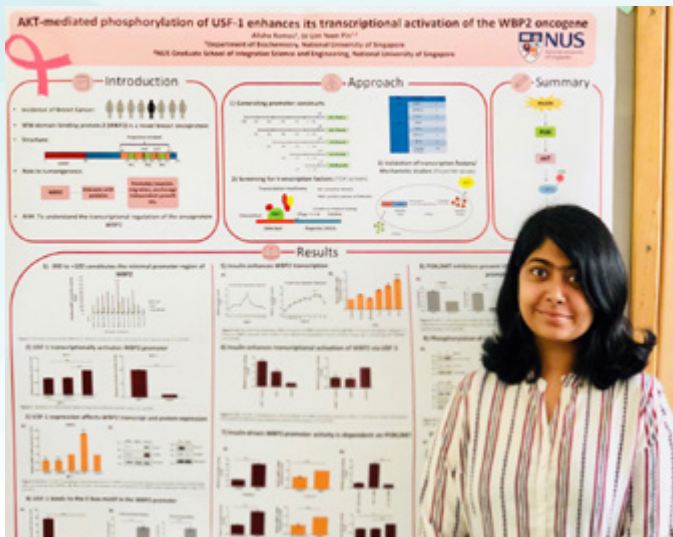
ASM Microbe 2018 was held at the Georgia World Convention Centre (GWCC) in Atlanta from the 7<sup>th</sup> to the 11<sup>th</sup> of June 2018. There were many tracks on discussion at the conference which ranged from antimicrobial resistance, host-microbe biology, microbial ecology, public health and even professional talks aimed at helping microbiologists in their careers.

Many interesting talks were held, often concurrently which made it challenging to attend every session. The posters on display were also of new and interesting topics, often unpublished which made it exciting to learn of cutting-edge developments in microbiology. Networking was also an integral part of the conference and there were many workshops and even receptions where one can interact with students, professors and professionals from all over the world.

I gained a deep understanding of the important role that microbiologists play in the world given that almost every part of our lives from the water we drink, food we eat and even what goes on in our bodies is affected by the microbes that live on, in and with us.

Not all was work and Atlanta is a beautiful city with plenty of greenery. It is also home to many large corporations we are familiar with such as Coca-cola and CNN. A wonderful place to visit, it is sure to have something for everyone.





## **ALISHA F RAMOS**

Graduate Study: PhD

Name of Supervisor:

**Dr. Lim Yoon Pin**

Mechanisms and Models of Cancer  
14th-18th August 2018  
Cold Spring Harbor Laboratories,  
New York, USA.

The theme of the conference was very relevant to my work. The talks covered diverse topics and helped me understand the latest developments in the field of therapy, diagnostics, cancer models and basic science. It also provided opportunities to meet fellow researchers from around the globe and share research ideas and advances.

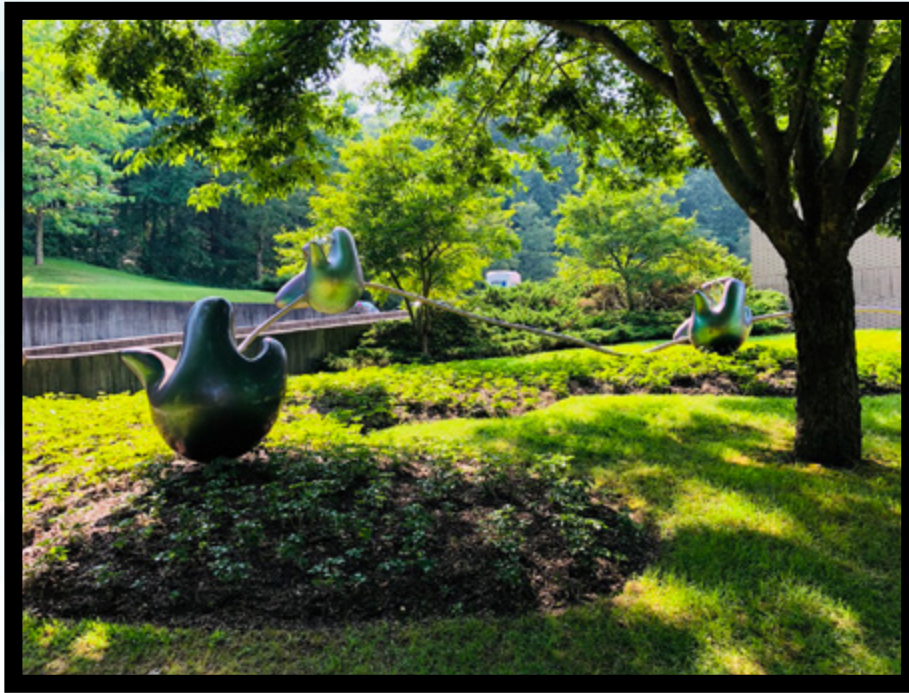
The organizers had also arranged for a career session for graduate students where we could interact with mentors working in different spheres of science and gain insights on how to shape our careers. The poster session gave me an opportunity to present my work to fellow participants and get their inputs on my work.

The icing on the cake was meeting the legendary Mr. James Watson, the picturesque landscapes that Cold Spring harbor offers and the history it holds.

### **Abstract**

**WW-Domain Binding Protein 2** (WBP2) a transcriptional co-activator, plays a vital role in breast tumorigenesis. It positively regulates ER, Hippo and Wnt pathways, which subsequently enhance the transcription of downstream target genes contributing to cancer. WBP2 overexpression in breast cancer cells was found to promote cell proliferation, migration, invasion and anchorage-independent growth. Understanding the regulation of the expression and activity of WBP2 oncoprotein has implication in cancer therapy. We have previously reported that WBP2 is regulated at the post translational and post transcriptional level. However, its regulation at the transcriptional level is not known.

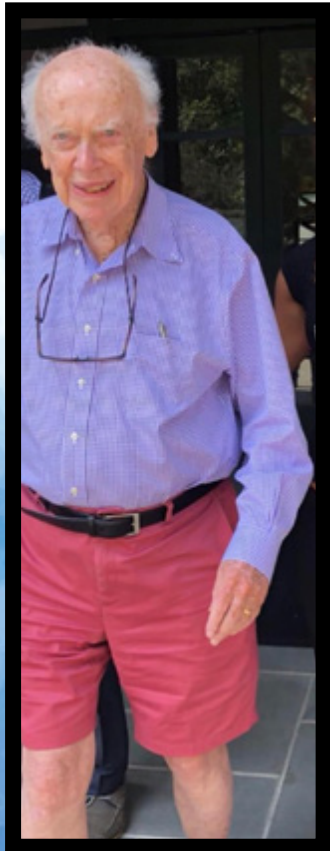
In this study, the minimal promoter region of WBP2 and the regulatory motif that is critical for its transcription were identified. **Upstream Stimulatory Factor 1** (USF-1) was discovered to be a key transcription factor for WBP2 through Yeast-1-Hybrid and validated through reporter, ChIP assays and tandem mass spectrometry, which also suggest that USF-1 acts by regulating a network of genes, in addition to WBP2, associated with cell movement, proliferation, cell cycle and survival cellular processes. USF-1 is overexpressed in majority of the breast cancer cell lines and tissues tested and has profound effects on cancer cell proliferation. USF-1 mediated transcription of WBP2 was demonstrated to be inducible by insulin, which led to AKT-mediated phosphorylation of USF-1 that modulated its ability to bind to the WBP2 promoter and activate its transcription. This study sheds new insights into the regulation of the WBP2 oncogene at the transcriptional level by a novel oncogenic transcription factor USF-1. USF-1 is a potential drug target for treatment of WBP2-positive breast cancer.



**Scenic campus of cold spring harbour laboratories**



**The James Watson laboratory at CSHL and the man himself**



# Events

## Staff Welfare Event – Perfume Making Workshop: 24 September 2018, Monday



We began our highly anticipated workshop after a hearty buffet lunch at the department. The instructor gave a very engaging presentation on the history of perfume and different fragrances, and we created our own signature scent based on a personality test. Like a scene from a Harry Potter movie, everyone created their 'potions' by adding specific drops of different exotic orchid perfume oils. We ended the workshop with each team performing a skit to promote their perfumes. It is pretty cool to create our own bespoke perfume, either for ourselves or our loved ones. The best part was that everyone got to bring home their special concoction, personalized with their names engraved on the crystal perfume bottle. The workshop is indeed a unique scent-sory experience for everyone!

[Dr Chua Yee Liu, Member of Biochemistry Staff Welfare Committee]



# Events

## Safety Tea: 27 September 2018, Thursday



The second Safety Tea in 2018 was held on 27th September 2018 in LT35 in MD6, and was attended by more than 160 participants, including academic staff, research staff, postgraduate students, undergraduate students and research collaborators. Deputy Head of Department, A/P Maxey Chung gave the opening speech and congratulated the Safety Video Team on winning the top two awards for Outstanding Safety Videos in NUS Medicine Safety Day 2018. He also reminded everyone to continue to put safety as a top priority when working in the lab. Dr Kenneth Ban, the Safety Chair, shared new safety updates including the newly implemented Laboratory Materials Management System (LMMS), new requirements for Explosive Precursors and updates to NUS Safety & Health Manuals, Standards & Quick Guides. The Safety Tea ended with a delightful spread of afternoon tea snacks.

[Dr Yap Lai Lai, Member of Biochemistry's Safety Committee]



## Research Publications

Extracted from NUS Elements; journal articles reporting date from 1 June 2018 to 31 December 2018.

Admasu, T. D., Batchu, K. C., Ng, L. F., **Cazenave-Gassiot, A., Wenk, M. R., & Gruber, J.** (2018). Lipid profiling of *C. elegans* strains administered pro-longevity drugs and drug combinations. *Scientific Data*, 5. doi:[10.1038/sdata.2018.231](https://doi.org/10.1038/sdata.2018.231)

Burla, B., Arita, M., Arita, M., Bendt, A. K., **Cazenave-Gassiot, A.**, Dennis, E. A., . . . **Wenk, M. R.** (2018). MS-based lipidomics of human blood plasma - a community-initiated position paper to develop accepted guidelines.. *J Lipid Res.* doi:[10.1194/jlr.S087163](https://doi.org/10.1194/jlr.S087163)

Chan, J. P., Wong, B. H., Chin, C. F., Galam, D. L. A., Foo, J. C., Wong, L. C., . . . **Wenk, M. R., Cazenave-Gassiot, A.**, Silver, D. L. (2018). The lysolipid transporter Mfsd2a regulates lipogenesis in the developing brain. *PLOS BIOLOGY*, 16(8), 30 pages. doi:[10.1371/journal.pbio.2006443](https://doi.org/10.1371/journal.pbio.2006443)

Harel, T., Quek, D. Q. Y., Wong, B. H., **Cazenave-Gassiot, A., Wenk, M. R.**, Fan, H., . . . Edvardson, S. (2018). Homozygous mutation in MFSD2A, encoding a lysolipid transporter for docosahexanoic acid, is associated with microcephaly and hypomyelination. *Neurogenetics*. doi:[10.1007/s10048-018-0556-6](https://doi.org/10.1007/s10048-018-0556-6)

Teo, E., Batchu, K. C., Barardo, D., Xiao, L., **Cazenave-Gassiot, A.**, Tolwinski, N., **Wenk, M. R., Halliwell, B., Gruber, J.** (2018). A novel vibration-induced exercise paradigm improves fitness and lipid metabolism of *Caenorhabditis elegans*. *SCIENTIFIC REPORTS*, 8, 15 pages. doi:[10.1038/s41598-018-27330-3](https://doi.org/10.1038/s41598-018-27330-3)

Lim, Y. P., Go, M. K., Raida, M., Inoue, T., **Wenk, M. R.**, Keasling, J. D., . . . **Chang, M. W., Yew, W. S.** (2018). Synthetic Enzymology and the Fountain of Youth: Repurposing Biology for Longevity. *ACS Omega*, 3(9), 11050-11061. doi:[10.1021/acsomega.8b01620](https://doi.org/10.1021/acsomega.8b01620)

Sam, Q. H., **Yew, W. S.**, Seneviratne, C. J., **Chang, M. W.**, & Chai, L. Y. A. (2018). Immunomodulation as Therapy for Fungal Infection: Are We Closer?. *FRONTIERS IN MICROBIOLOGY*, 9, 16 pages. doi:[10.3389/fmicb.2018.01612](https://doi.org/10.3389/fmicb.2018.01612)

Chen, B., Lee, H. L., Heng, Y. C., Chua, N., Teo, W. S., Choi, W. J., . . . **Chang, M. W.** (2018). Synthetic biology toolkits and applications in *Saccharomyces cerevisiae*. *Biotechnology Advances*, 36(7), 1870-1881. doi:[10.1016/j.biotechadv.2018.07.005](https://doi.org/10.1016/j.biotechadv.2018.07.005)


Lee, H. L., Shen, H., Hwang, I. Y., Ling, H., Yew, W. S., Lee, Y. S., & **Chang, M. W.** (2018). Targeted Approaches for In Situ Gut Microbiome Manipulation. *GENES*, 9(7), 12 pages. doi:[10.3390/genes9070351](https://doi.org/10.3390/genes9070351)

Rahaman, S., Yusop, J., Mohamed-Hussein, Z., Mohd, A., Ho, K. L., Teh, A. -H., . . . **Chen, E. S.**, Ng, C. L. (2018). Crystal structure and functional analysis of human C1ORF123.. *PeerJ*, 6, e5377.

Ren, B., Sayed, A. M. M., Tan, H. L., Mok, Y. K., & **Chen, E. S.** (2018). Identifying Protein Interactions with Histone Peptides Using Bio-layer Interferometry. *Bio Protocol*, 8(18), e3012.

**Chen, E. S.** (2018). Targeting epigenetics using synthetic lethality in precision medicine. *Cellular and Molecular Life Sciences*, 75(18), 3381-3392. doi:[10.1007/s00018-018-2866-0](https://doi.org/10.1007/s00018-018-2866-0)





Seah, K. S., Loh, J. Y., **Thi, T. T. N.**, Hwei, L. T., Hutchinson, P. E., Lim, K. K., **Long, Y.C.**, . . . **Chen, E. S.** (2018). SAHA and cisplatin sensitize gastric cancer cells to doxorubicin by induction of DNA damage, apoptosis and perturbation of AMPK-mTOR signalling. *EXPERIMENTAL CELL RESEARCH*, 370(2), 283-291. doi:[10.1016/j.yexcr.2018.06.029](https://doi.org/10.1016/j.yexcr.2018.06.029)

Bi, X., Loo, Y. T., Ponnalagu, S., & **Henry, C. J.** (2018). Obesity is an independent determinant of elevated C-reactive protein in healthy women but not men. *Biomarkers*. doi:[10.1080/1354750X.2018.1501763](https://doi.org/10.1080/1354750X.2018.1501763)

Ambaw, Y. A., Chao, C., Ji, S., Raida, M., **Torta, F., Wenk, M. R.**, & Tong, L. (2018). Tear eicosanoids in healthy people and ocular surface disease. *Scientific Reports*, 8(1). doi:[10.1038/s41598-018-29568-3](https://doi.org/10.1038/s41598-018-29568-3)

Ku, J. W., & **Gan, Y. H.** (2019). Modulation of bacterial virulence and fitness by host glutathione. *Current Opinion in Microbiology*, 47, 8-13. doi:[10.1016/j.mib.2018.10.004](https://doi.org/10.1016/j.mib.2018.10.004)

Lam, M. M. C., Wyres, K. L., Duchene, S., Wick, R. R., Judd, L. M., **Gan, Y. -H.**, . . . Holt, K. E. (2018). Population genomics of hypervirulent *Klebsiella pneumoniae* clonal-group 23 reveals early emergence and rapid global dissemination. *NATURE COMMUNICATIONS*, 9, 10 pages. doi:[10.1038/s41467-018-05114-7](https://doi.org/10.1038/s41467-018-05114-7)

Gamage AM, Liao C, Cheah IK, Chen Y, Lim DRX, Ku JWK, . . . , **Halliwell B, & Gan Y-H** (2018). The proteobacterial species *Burkholderia pseudomallei* produces ergothioneine, which enhances virulence in mammalian infection. *FASEB JOURNAL*, 32(12), 6395-6409. doi:[10.1096/fj.201800716](https://doi.org/10.1096/fj.201800716)

Lakshmanan, L. N., Yee, Z., Ng, L. F., Gunawan, R., **Halliwell, B., & Gruber, J.** (2018). Clonal expansion of mitochondrial DNA deletions is a private mechanism of aging in long-lived animals. *Aging Cell*, 17(5). doi:[10.1111/acer.12814](https://doi.org/10.1111/acer.12814)

Chen, J., Rajasekaran, M., Xia, H., Kong, S. N., Deivasigamani, A., Sekar, K., . . . **Hong, W. J.**, Hui, K. M. (2018). CDK1-mediated BCL9 phosphorylation inhibits clathrin to promote mitotic Wnt signalling. *EMBO Journal*, 37(20). doi:[10.15252/embj.201899395](https://doi.org/10.15252/embj.201899395)

Sun, L., Xu, X., Chen, Y., Zhou, Y., Tan, R., Qiu, H., . . . **Hong, W. J.**, Wang, T. (2018). Rab34 regulates adhesion, migration, and invasion of breast cancer cells. *Oncogene*, 37(27), 3698-3714. doi:[10.1038/s41388-018-0202-7](https://doi.org/10.1038/s41388-018-0202-7)

Li, Y., Liu, S., Ng, E. Y., Li, R., Poulsen, A., Hill, J. . . . , **Hong, W. J.**, . . . Kang, C. B. (2018). Structural and ligand-binding analysis of the YAP-binding domain of transcription factor TEAD4. *Biochemical Journal*, 475(12), 2043-2055. doi:[10.1042/BCJ20180225](https://doi.org/10.1042/BCJ20180225)

Toloczko, A., Guo, F., Yuen, H. F., Wen, Q., Wood, S. A., Ong, Y. S., . . **Hong, W. J.**, . Chan, S. W. (2017). Deubiquitinating enzyme USP9X suppresses tumor growth via LATS kinase and core components of the Hippo pathway. *Cancer Research*, 77(18), 4921-4933. doi:[10.1158/0008-5472.CAN-16-3413](https://doi.org/10.1158/0008-5472.CAN-16-3413)

Li, Y., Busoy, J. M., Zaman, B. A. A., Tan, Q. S. W., Tan, G. S. W., Barathi, V. A., . . . **Hong, W. J.**, Wong, T. Y., Cheung, C. M. G. (2018). A novel model of persistent retinal neovascularization for the development of sustained anti-VEGF therapies. *EXPERIMENTAL EYE RESEARCH*, 174, 98-106. doi:[10.1016/j.exer.2018.05.027](https://doi.org/10.1016/j.exer.2018.05.027)

Jin, Y., Wang, J., Bachtar, M., Chong, S. S., & **Lee, C. G. L.** (2018). Architecture of polymorphisms in the human genome reveals functionally important and positively selected variants in immune response and drug transporter genes.. *Hum Genomics*, 12(1), 43. doi:[10.1186/s40246-018-0175-1](https://doi.org/10.1186/s40246-018-0175-1)

Liu, S., Jin, Y., Zhang, D., Wang, J., Wang, G., & **Lee, C. G. L.** (2018). Investigating the Promoter of FAT10 Gene in HCC Patients. *GENES*, 9(7), 18 pages. doi:[10.3390/genes9070319](https://doi.org/10.3390/genes9070319)

Lee, H. L., Shen, H., Hwang, I. Y., **Ling, H., Yew, W. S.,** Lee, Y. S., & **Chang, M. W.** (2018). Targeted Approaches for In Situ Gut Microbiome Manipulation. *GENES*, 9(7), 12 pages. doi:[10.3390/genes9070351](https://doi.org/10.3390/genes9070351)

Triebel, A., & **Wenk, M. R.** (2018). Analytical Considerations of Stable Isotope Labelling in Lipidomics. *Biomolecules*, 8(4). doi:[10.3390/biom8040151](https://doi.org/10.3390/biom8040151)

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[Extracted: 10 December 2018]

Dr Yvonne Tay's  
baby girl, Leah Tan  
Born on 24 July 2018



# Farewell

Ho Chun Loong Last Day 9 July 2018	Chua Niying Last Day 20 July 2018	Foo Chuan De Last Day 1 August 2018	Kemas Aurino Muhammad Last Day 15 August 2018
Cheah Wai Yuen Last Day 10 September 2018	Pham Hoang Long Last Day 26 September 2018	Wen Ke Yan Last Day 28 September 2018	Xia Pengfei Last Day 10 October 2018
Gaynor Yong Li Li Last Day 15 October 2018	Vidhi Kanaiyalal Patel Last Day 31 October 2018	Yim Jian Nam Last Day 31 October 2018	Lim Si-Hui Jolander Last Day 6 November 2018
Mohammad Talaei Pashiri Last Day 9 July 2018	Hoh Chu Han Last Day 30 November 2018	Maulana Bachtiar Last Day 30 November 2018	Lee Na Rae Last Day 31 December 2018
Chen Yanan Last Day 31 December 2018	Vu Minh Thiet Last Day 31 January 2019	Sim Wenjing Last Day 10 January 2019	Safia Syaqrin Last Day 19 November 2018
Tan Yihan Last Day 11 January 2019			

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