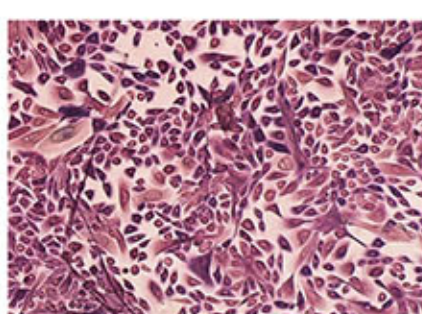


# CANCER SCIENCE INSTITUTE OF SINGAPORE IN THE SPOTLIGHT

ISSUE 53 | JUN 2018

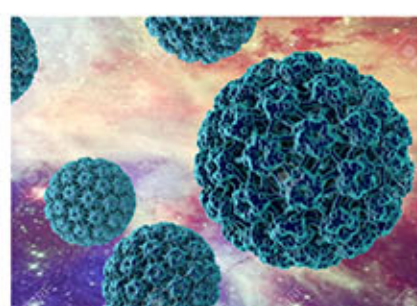
## MYC/BMI1 Axis is Essential for SETDB1-mediated Breast Tumorigenesis. (*J Pathol*, Jun 2018)

Exciting work by Prof H Phillip Koeffler's team identified SETDB1 as a prominent oncogene and characterized the underlying mechanism of SETDB1 in driving breast cancer, and therefore provides a therapeutic rationale for targeting SETDB1/BMI1 signalling in breast cancer.



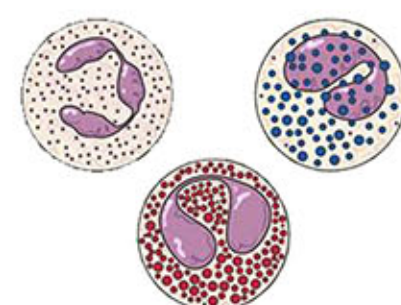
## High-Risk Human Papillomaviral Oncogenes E6 and E7 Target Key Cellular Pathways to Achieve Oncogenesis. (*Int J Mol Sci*, Jun 2018)

This review by Nicole Yeo, PhD student from Dr Sudhakar Jha's group, elaborated on the roles of Human Papilloma Virus (HPV) oncogenes E6 & E7, and how they affect cellular pathways which leads to cancer development.



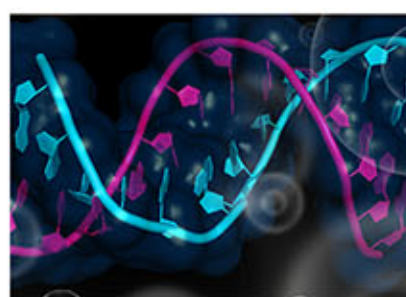
## CARD10, a CEBPE Target Involved in Granulocytic Differentiation. (*Haematologica*, May 2018)

Researchers from Prof H Phillip Koeffler's group demonstrated that the gene CARD10 is expressed in granulocytes. They also found that it is acted on by the transcription factor CEBPE, and this leads to functions affecting myeloid differentiation.



## Bidirectional Regulation of adenosine-to-inosine (A-to-I) RNA editing by DEAH box helicase 9 (DHX9) in Cancer. (*Nucleic Acids Res*, May 2018)

Dr Polly Chen's group elucidated the regulatory role of DHX9 as a bidirectional regulator in A-to-I editing. Results suggest that DHX9 catalyzes active remodeling of the ADAR substrates into distinct structural signatures, exerting opposing regulatory effects which are dependent on the ADAR-specificity of editing sites.



## IN THIS ISSUE

MYC/BMI1 Axis and SETDB1-mediated Breast Tumorigenesis

Human Papillomaviral Oncogenes E6 & E7 in Oncogenesis

CARD10, a CEBPE Target Involved in Granulocytic Differentiation

Bidirectional Regulation of A-to-I RNA Editing by DHX9 in Cancer

## UPCOMING EVENTS

CSI Seminar  
Han Xu  
3 Jul 2018

CSI Seminar  
Todd Stukenberg  
4 Jul 2018

CSI Seminar  
Victoria Cowling  
5 Jul 2018

## STUDENT RECEIVES AWARD AT THE BIOMEDICAL ENGINEERING SOCIETY 12TH SCIENTIFIC MEETING

CSI Singapore congratulates Benjamin Paik, attachment student from Dr Alan Prem Kumar's group for his achievements! Benjamin presented his research project at the Biomedical Engineering Society 12th Scientific Meeting on 19 May 2018, and was awarded the Gold Award for Best Podium Presentation.

