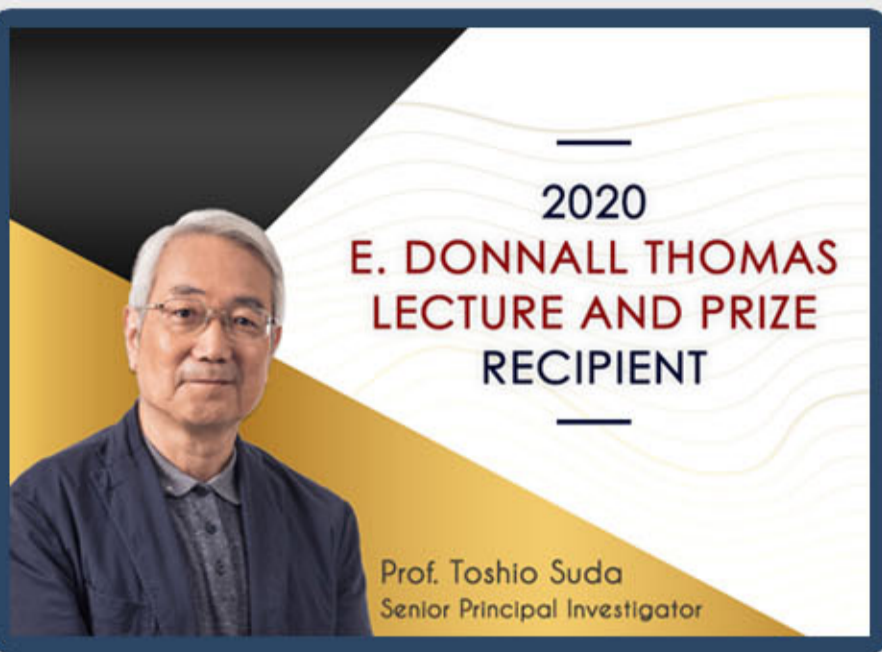


IN THE SPOTLIGHT

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NEWS & ACHIEVEMENTS



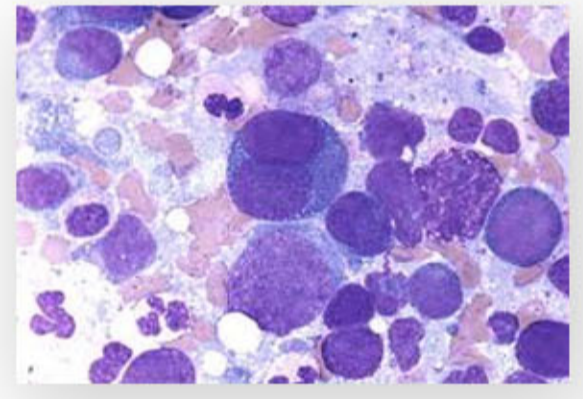
Congratulations to Prof. Toshio Suda for being awarded the 2020 E. Donnell Thomas Lecture and Prize!

Senior Principal Investigator, Prof. Toshio Suda, has been awarded the 2020 E. Donnell Thomas Lecture and Prize for his outstanding contributions to the field of stem cell research. Prof. Suda will present his lecture at the 62nd ASH Annual Meeting and Exposition. Established in 1992, this lectureship and prize was named after the late Nobel Prize laureate and past president of ASH E. Donnell Thomas, MD. Warmest congratulations to Prof. Suda on receiving this prestigious award!

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Hematopoietic Stem Cells Acquire Survival Advantage by Loss of RUNX1 Methylation Identified in Familial Leukemia. (*Blood*, June 2020)

Research team helmed by Prof. Toshio Suda zeroed in on the effects of post-translational modifications (PTMs) of RUNX1 and subsequent PTM dysregulation of RUNX1. By combining human and murine data, the group demonstrated that PTM of RUNX1 is associated with leukemogenesis. Findings from the study showed that the loss of RUNX1 methylation in Hematopoietic Stem Cells (HSCs) confers resistance to apoptosis and survival advantage under stress conditions, a hallmark of pre-leukemic clone. This exciting discovery will contribute to a better understanding of how dysregulation of PTMs can contribute to leukemogenesis.



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CSI NGS Portal: An Online Platform for Automated NGS Data Analysis and Sharing. (*Int J Mol Sci*, May 2020)



To meet growing demands for Next-generation sequencing (NGS) data analysis and bridge the gap between biologists and bioinformaticians, Dr. Henry Yang and his team developed CSI NGS Portal, an online platform which gathers established bioinformatics pipelines to provide fully automated NGS data analysis. The portal currently provides 16 standard pipelines and is freely available at <https://csibioinfo.nus.edu.sg/csingsportal>

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Suppression of Adenosine-to-inosine (A-to-I) RNA Editome by Death Associated Protein 3 (DAP3) Promotes Cancer Progression. (*Sci Adv*, Jun 2020)

This fascinating study led by Dr. Polly Chen has yielded important clues about the role of a previously unidentified ADAR-interacting protein death associated protein 3 (DAP3). The group demonstrated that DAP3 could destroy the binding of ADAR2 protein to its target RNAs and thereby inhibiting the A-to-I RNA editing in cancer cells. Results from this study reveal crucial functions of DAP3 as a potent repressor of editing and a strong oncogene in cancer, highlighting the rationale and therapeutic merits of DAP3.



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Lysine Acetyltransferase Tip60 is Required for Hematopoietic Stem Cell Maintenance. (*Blood*, Jun 2020)

Prof. Daniel Tenen and his team elucidated a critical importance of lysine acetyltransferase 5 (Tip60) in maintaining proper cell-cycle progression and DNA repair in murine Hematopoietic Stem Cells (HSCs) at both fetal and adult stages. Results suggest that Tip60 regulates genes involved in important biological processes for HSC maintenance through acetylation of H2A.Z. Moreover, these findings reveal a vital epigenetic regulatory layer for HSC maintenance through TIP60-dependent H2A.Z acetylation to activate Myc target genes.



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UPCOMING EVENTS



6th RNA Biology Symposium

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