

• Name:

Toshio Suda, MD, PhD

**• Affiliation/Current Position:**

Kumamoto University
National University of Singapore

Professor

• Country:

Japan

• ICKSH2022 Presentation Title:

Thrombopoietin as an expansion factor for hematopoietic stem cells

• Educational Background:

1974 Graduated from Yokohama City University School of Medicine MD

1983 Ph D obtained from Jichi Medical University

• Professional Experiences:

1992 Professor, Department of Cell Differentiation, Institute of Molecular Embryology and Genetics, Kumamoto University School of Medicine

2002- 2015 Professor, Developmental Biology, Keio University School of Medicine

2015-present Professor, Cancer Science Institute of Singapore, National University of Singapore

2015-present Director and Distinguished Professor, IRCMS, Kumamoto University

• Professional Organizations

• American Society of Hematology (Ex: *Blood*, Editorial Board, Scientific Committee Member) D Thomas Award (2020)

• International Society of Stem Cell Research (ISSCR)

• *Cell Stem Cell* (Editorial Board)

• *Stem Cells* (Editorial Board)

- *EMBO J.* Editorial Board
- *J. Exp. Med.* (Ex. Editorial Board)
- *International Society for Experimental Hematology*
(Ex President in 2011) D. Metcalf Award in 2014
- Japanese Society of Hematology (Ex Editor-in-Chief for *Int. J. Hematol*)

• Main Scientific Publications:

- 1) Arai F, Hirao A, Ohmura M, Sato H, Matsuoka S, Takubo K, Ito K, Koh GY, Suda T: Tie2/Angiopoietin-1 signaling regulates hematopoietic stem cell quiescence in the bone marrow niche. **Cell** 2004,118: 149-161
- 2) Ito K, Hirao A, Arai F, Matsuoka S, Takubo K, Hamaguchi I, Nomiyama K, Hosokawa K, Sakurada K, Nakagata N, Ikeda Y, Mak TW, Suda T: Regulation of oxidative stress by ATM is required for self-renewal of haematopoietic stem cells. **Nature** 2004, 431: 997-1002
- 3) Nakamura-Ishizu A, Matsumura T, Stumpf PS, Umemoto T, Takizawa H, Takihara Y, O'Neil A, Majeed ABBA, MacArthur BD., Suda T: Thrombopoietin metabolically primes hematopoietic stem cells to megakaryocyte-lineage differentiation. **Cell Rep.** 2018; 25(7):1772-1785.e1776.
- 4) Nakamura-Ishizu A, Ito K, Suda T: Hematopoietic stem cell metabolism during development and aging. **Dev. Cell.**2020; 54:239-255.
- 5) Nakamura-Ishizu A, Chin DWL, Matsumura T, Tan DQ, Mochizuki-Kashio M, O'Neil A, Jianwen D, Suda T: Prolonged maintenance of hematopoietic stem cells that escape from thrombopoietin deprivation **Blood**, 2021;137:2609-2620.