

LEE Choong-Eun

Professor
Department of Biological Sciences



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Key Words Immune cell signaling, Th cell and macrophage differentiation, Reactive oxygen species, Cytokines, Anti-tumor agents,

Research Area The current research focus is on the modulators of cytokine signaling (SOCS) action to control inflammation and tumor progression using in vitro and in vivo model systems

Education

- 1985 PhD Temple University, Biochemistry
- 1982 MSc Brigham Young University, Biochemistry
- 1980 BSc Brigham Young University, Biology

Experience

- 1994-present Professor, Dept. of Biological Science, Sungkyunkwan University
- 2005-2006 Visiting Professor, University of Washington
- 1989 - 1994 Senior Researcher, KIST Genetic Engineering Center
- 1985 - 1988 Research Associate, Harvard Medical School

Position

- 2008-present Board member, Trustee, Korea Association of Immunologists
- 2005-2009 Vice president, The Association of Korean Woman Scientists and Engineers
- 2001-present Board member, Auditor, Women's Bioscience Forum

Selected Publication

- Mechanism of suppressors of cytokine signaling 1 inhibition of epithelial-mesenchymal transition signaling through ROS regulation in colon cancer cells: suppression of Src leading to thioredoxin up-regulation. *Oncotarget* **7**:62559-62571 (2016)
- Suppressors of cytokine signaling promote Fas-induced apoptosis by down-regulation of NF- κ B and mitochondrial Bfl-1 in leukemic T cells. *Journal of Immunology* **189**:5561-5571 (2012)
- SOCS1 protects protein tyrosine phosphatases by thioredoxin up-regulation and attenuates Jaks to suppress ROS-mediated apoptosis. *Oncogene* **28**: 3145-3156 (2009)
- Counter-regulation mechanism of IL-4 and IFN- α through cytosolic retention of pYSTAT6:pYSTAT2:p48 complex, *European Journal of Immunology* **41**:461-471 (2011)
- Ras/Erk pathway positively regulates Jak1/STAT6 activity and IL-4 expression in Jurkat T cells, *Molecular Immunology* **44**: 3416-3426 (2007)
- Interferon α and interferon γ post-transcriptionally down-regulate IL-4 receptor gene expression. *Journal of Immunology* **165**: 5472-5479 (2000)
- The proto-oncogene KR-POK represses transcriptional activation of CDKN1A by MIZ-1 through competitive binding, *Oncogene* **31**:1442-1458 (2012)
- ANT2 suppression by shRNA may exert anti-tumor effects in HCC further by restoring SOCS1 expression, *International Journal of Oncology* **42**:574-582 (2013)

Others