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RESEARCH CLUSTER – CHULALONGKORN UNIVERSITY

Health Cluster, Aging Society Cluster, Genomic Medicine, Tropical Medicine

RESEARCH INTEREST

Cell death; Inflammation; Cancer Research; Precision Medicine; Bioinformatics; Natural Products

EDUCATION

2009 Doctor of Philosophy (Biochemistry), Mahidol University, Bangkok, Thailand

2002 Bachelor of Science (Medical Technology), Mahidol University, Bangkok, Thailand

TRAINING

Sep 2009 - Dec 2014 Postdoctoral visiting fellow Maryland, United States

Sep 2006 - Dec 2008 Registered visiting Ph.D. student Stockholm, Sweden

PUBLICATIONS

1. Akara-Amornthum P., Lomphithak T., Choksi S., Tohtong R., Jitkaew S.. Key necroptotic proteins are required for Smac mimetic-mediated sensitization of cholangiocarcinoma cells to TNF- α and chemotherapeutic gemcitabine-induced necroptosis. PLoS ONE. 2020; 15(1); e0227454
2. Thanpisit Lomphithak, Swati Choksi, Apiwat Mutirangura, Rutaiwan Tohtong, Tewin Tencomnao, Hajime Usubuchi, Michiaki Unno, Hironobu Sasano, Siriporn Jitkaew. Receptor-interacting protein kinase 1 is a key mediator in TLR3 ligand and Smac

- mimetic-induced cell death and suppresses TLR3 ligand-promoted invasion in cholangiocarcinoma. *Cell Communication and Signaling*. 2020; 18(1); 3-20.
3. Qin X., Hu L., Shi S.-N., Chen X., Zhuang C.,.....Jitkaew S et al. The Bcr-Abl inhibitor GNF-7 inhibits necroptosis and ameliorates acute kidney injury by targeting RIPK1 and RIPK3 kinases. *Biochemical Pharmacology*. 2020; 177;
 4. Xu Q., Jitkaew S., Choksi S., Kadigamuwa C., Qu JH.. The cytoplasmic nuclear receptor RAR gamma controls RIP1 initiated cell death when cIAP activity is inhibited. *NATURE COMMUNICATIONS*. 2017; 8(425); 1-15.
 5. Shen H., Yu XB., Yang FM., Zhang ZH., Shen JX.,.....Jitkaew S et al. Reprogramming of Normal Fibroblasts into Cancer-Associated Fibroblasts by miRNAs-Mediated CCL2/VEGFA Signaling. *PLOS GENETICS*. 2016; 12(8);
 6. Cai ZY., Jitkaew S., Zhao J., Chiang HC., Choksi S.. Plasma membrane translocation of trimerized MLKL protein is required for TNF-induced necroptosis. *NATURE CELL BIOLOGY*. 2014; 16(1); 55-+.
 7. Zhao J., Jitkaew S., Cai ZY., Choksi S., Li QN.. Mixed lineage kinase domain-like is a key receptor interacting protein 3 downstream component of TNF-induced necrosis. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. 2012; 109(14); 5322-5327.
 8. Choksi S., Lin Y., Pobeziinskaya Y., Chen L., Park C.,.....Jitkaew S et al. A HIF-1 Target, ATIA, Protects Cells from Apoptosis by Modulating the Mitochondrial Thioredoxin, TRX2. *MOLECULAR CELL*. 2011; 42(5); 597-609.
 9. Jitkaew S., Witas E., Zhang S., Kagan VE., Fadeel B. Induction of caspase- and reactive oxygen species-independent phosphatidylserine externalization in primary human neutrophils: role in macrophage recognition and engulfment. *JOURNAL OF LEUKOCYTE BIOLOGY*. 2009; 85(3); 427-437.
 10. Sanmun D., Witas E., Jitkaew S., Tyurina YY., Kagan VE.. Involvement of a functional NADPH oxidase in neutrophils and macrophages during programmed cell clearance: implications for chronic granulomatous disease. *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*. 2009; 297(3); C621-C631.
 11. Jitkaew S., Trebinska A., Grzybowska E., Carlsson G., Nordstrom A.. N-alpha-Tosyl-L-phenylalanine Chloromethyl Ketone Induces Caspase-dependent Apoptosis in Transformed Human B Cell Lines with Transcriptional Down-regulation of Anti-

apoptotic HS1-associated Protein X-1. JOURNAL OF BIOLOGICAL CHEMISTRY. 2009; 284(41); 27827-27837.

CONFERENCE PAPERS

1. Akara-Amornthum P and Jitkaew S. Smac mimetic sensitizes Gemcitabine-induced apoptosis in cholangiocarcinoma cells. The 9th National and International Graduate Study Conference “Innovation and Creativity for Sustainable Development” Organized by Graduate School, Silpakorn University; 2019. 173-180
2. Lomphithak T and Jitkaew S. . Inhibitor of apoptosis proteins antagonists induce cholangiocarcinoma cell killing through apoptosis. The 9th National and International Graduate Study Conference “Innovation and Creativity for Sustainable Development” Organized by Graduate School, Silpakorn University; 2019. 197-1104