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Education

March, 1998 – February, 2001

Ph. D. from Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang, Korea

Thesis title: "Regulation of phospholipase D2 by binding proteins: Identification of α -actinin and heat shock 70 and characterization of regulatory mechanism."

Thesis advisor: Dr. Sung Ho Ryu

March, 1996 - February, 1998

M.S. from Department of Life Science, Pohang University of Science and Technology, Pohang, Korea

Thesis title: "Inhibition of PLD1 by synapsin I"

Thesis advisor: Dr. Sung Ho Ryu

March, 1990 - February, 1994

B.S from Department of biochemistry, College of Natural Science, Gyeongsang National University, Chinju, Korea

Professional Experience

2006.06	2009.01	Neurologic Cancer Branch, Division of Specific Organs, National Cancer Center	Associate Scientist
2017.02	2021.01	Graduate School of Cancer Science and Policy	Dean
2018.03	2021.12	Cancer Proteogenomic Analysis Consortium, National Cancer Center	Head
2019.10	present	R&DB Foundation, National Cancer Center Graduate School of Cancer Science and Policy	President
2019.05	present	International Agency for Research on Cancer (IARC), WHO	Scientific Council

Academic Society

2022- : KHUPO (Director of Academic Affairs)

Publications

- 2021 SCI-E Modulation of Nogo receptor 1 expression orchestrates myelin-associated infiltration of glioblastoma: *BRAIN*.
- 2020 SCI-E Transcriptional regulatory networks of tumor-associated macrophages that drive malignancy in mesenchymal glioblastoma: *GENOME BIOLOGY*. 21(1):216~
- 2020 SCI-E ARS2/MAGL signaling in glioblastoma stem cells promotes self-renewal and M2-like polarization of tumor-associated macrophages: *NATURE COMMUNICATIONS*. 11(1):2978~
- 2019 SCI-E Interplay between TRAP1 and Sirtuin-3 modulates mitochondria respiration and oxidative stress to maintain stemness of glioblastoma stem cells: *CANCER RESEARCH*. 79(7):1369~1382
- 2017 SCI Transglutaminase 2 inhibition reverses mesenchymal transdifferentiation of glioma stem cells by regulating C/EBP β signaling: *CANCER RESEARCH*. 77(18):4973~4984
- 2015 SCI DEAD-box RNA helicase DDX23 modulates glioma malignancy via elevating miR-21 biogenesis:*BRAIN*. 138(Pt9):2553~2570
- 2015 SCI Pigment Epithelium-Derived Factor (PEDF) Expression Induced by EGFRvIII Promotes Self-renewal and Tumor Progression of Glioma Stem Cells: *PLOS BIOLOGY*. 13(5):1002152~1002152