Biomedical & Pharmaceutical Analysis

Sung Won Kwon, Ph.D.

Professor

Address

- E-mail:swkwon@snu.ac.kr
- Website:http://www.snupharm.ac.kr/swkwon
- Tel:+82-2-880-7844
- Fax:+82-2-886-7844

Education

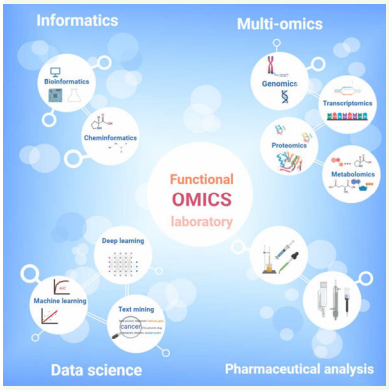
- Ph.D.SeoulNat'lUniv.(2001)
- M.S.SeoulNat'lUniv.(1998)
- B.S.SeoulNat'lUniv.(1996)

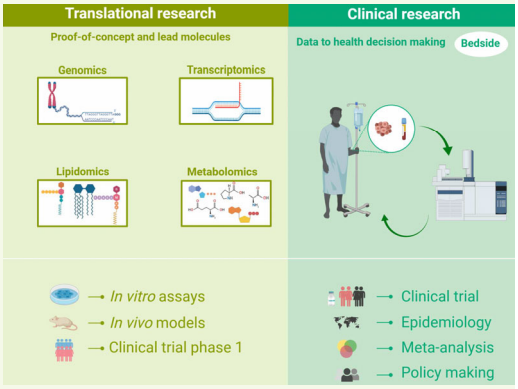
Work Experiences

- 2017.03-present:SNU,Professor
- 2011.09–2017.02:SNU,AssociateProfessor
- 2007.10-2011.08:SNU,AssistantProfessor
- 2005.09-2007.09:SNU,Full-timeLecturer
- 2004.05-2005.02:SouthwesternMed.Ctr. SeniorResearchScientist
- 2002.08-2004.04:SouthwesternMed.Ctr. PostdoctoralResearcher
- 2001.10-2002.07:IndianaUniversity PostdoctoralFellow

Selected Publications

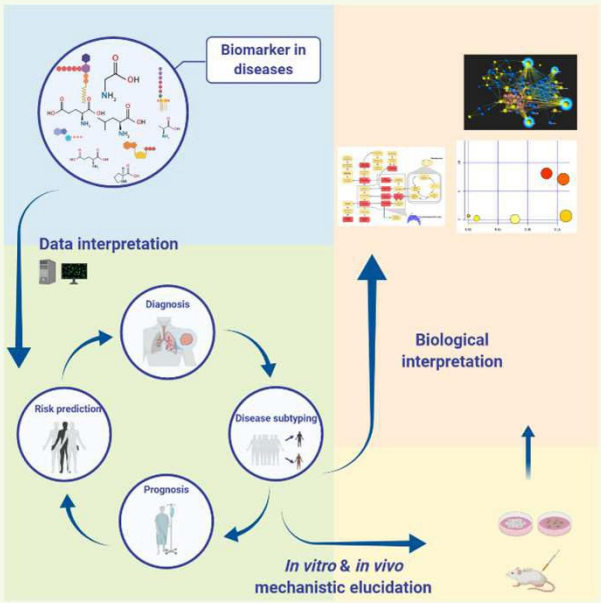
- In vitro tracking of intracellular metabolism-derived cancer volatilesviaisotopelabeling. *ACSCentralScience*(2018)
- Comparative study on metabolite level in tissue-specific human mesenchymal stem cells by an ultra-performance liquid chromatography quadrupole time of flight mass spectrometry. *AnalyticaChimicaActa*(2018)
- Efficacy of integrating a novel 16-gene biomarker panel and intelligence classifiers for differential diagnosis of rheumatoid arthritis and osteoarthritis.*Journal of Clinical Medicine*(2019)
- An Integrative Data Mining and Omics-Based Translational Model for the Identification and Validation of Oncogenic Biomarkers ofPancreatic Cancer. *Cancers*(2019)
- Comprehensive multi-omics analysis reveals aberrant metabolismofEpstein-Barr-Virus-associated gastric carcinoma. *Cells*(2019)





Precise understanding of biochemical processes are profoundly important in translational and clinical research. Our research group devotes to establish adaptive omics strategies of which metabolomics and lipidomics are the core platforms to interpret the disturbance of biochemical pathways. We also develop and validate omics-based biomarkers for the diagnosis, prognosis, and management of human diseases.

Research workflow



Integrative data mining and omics-based translational model for biomarker discovery