



## Cell Clearance Laboratory



### Education

2008 : Ph.D. in Cell Biology, Univ. of Virginia

2003 : M.S. in Life Sciences, GIST

2001 : B.S. in Food Sci. & Tech., Seoul National Univ.

### Experience

2012~present : Assistant Professor, School of Life Sciences, GIST

2008~2012 : Research Associate, Univ. of Virginia

2003~2004 : Researcher, GIST

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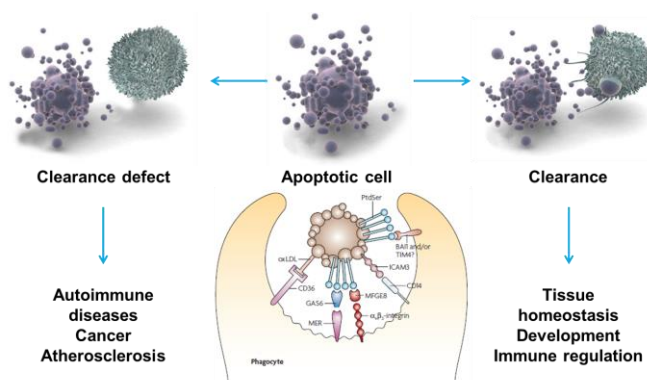
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## Research Topics

- Our lab is mainly interested in the signaling pathways during efferocytosis (clearance of apoptotic cells). Especially, we are focusing our effort on how cell corpses are recognized by phagocytes and how phagocytes get rid of ingested apoptotic cell. To investigate these fundamental processes, we take advantage of the most advanced technologies such as FACS and confocal microscopy as well as traditional methods. Furthermore, to understand real physiological roles of these processes we are also harnessing mouse model whose gene of interest is manipulated.
- Three major fields of research
  - How phagocytes recognize apoptotic cells
  - How phagocytes internalize apoptotic cells
  - How phagocytes digest engulfed apoptotic cells



## ■ Selected Publications

- [Identification of a novel protein interaction between Elmo1 and Cdc27. Biochem Biophys Res Commun. 2016 Mar 18;471\(4\):497-502.](#)
- [Anion Transport or Nucleotide Binding by Ucp2 Is Indispensable for Ucp2-Mediated Efferocytosis. Mol Cells. 2015 Jul;38\(7\):657-62. doi: 10.14348/molcells.2015.0083. Erratum in: Mol Cells. 2015 Aug;38\(8\):741](#)
- [Co-receptors are dispensable for tethering receptor-mediated phagocytosis of apoptotic cells. Cell Death Dis. 2015 May 28;6:e1772.](#)
- [Arhgef16, a novel Elmo1 binding partner, promotes clearance of apoptotic cells via RhoG-dependent Rac1 activation. Biochim Biophys Acta. 2014 Nov;1843\(11\):2438-47.](#)
- [Gingerol sensitizes TRAIL-induced apoptotic cell death of glioblastoma cells. Toxicol Appl Pharmacol. 2014 Sep 15;279\(3\):253-65](#)

### PUBMED AUTHOR INFORMATION

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Daeho+Park>