

Cheolho Sim, Ph.D.

Associate Professor, Biology at Baylor University

Waco, TX, US

Professor Sim's research is focused predominantly on the vector biology of human pathogens.

Biography

Professor Sim's is a biologist who's works in two broad areas, functional genomics studies of arthropod vectors of human pathogens and diapause research on west nile virus vector, especially the mosquito.

One of conspicuous void in our understanding of vector biology is how mosquitoes and other disease vectors regulate their seasonal development. Within the temperate zones, mosquitoes limited temporally to just a few months of active development. The remaining months are spent in a dormancy period known as diapause. Thus we are interested in determining the molecular mechanisms by which gene products exert this alternative developmental pathway. An applied aspect of this work is the potential utilization of this phenotype to discover novel developmental and metabolic inhibitors of arthropod vectors of human pathogens.

Industry Expertise

Education/Learning, Writing and Editing, Research

Areas of Expertise

Vector Biology, Functional Genomics, Disease Vectors, Biology

Education

University of Notre Dame

Ph.D.

Korea University

M.S.

Korea University

B.S.

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