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Title:

“The Basic and Translational Biology of SCUBE Protein Family”

Abstract

This year marks my 20 years of career advancement in Taiwan. In this talk, I will focus on the biology of SCUBE (signal-peptide-CUB-EGF domain-containing proteins) family by recounting the discovery, protein domain organization, biochemical properties, and functions of these proteins. Then for each SCUBE member, I will highlight their expression patterns, translational regulation, developmental and physiological functions, and associated diseases. Apart from studies on human SCUBE function, experimental results from genetically modified mouse models have yields important insights in the field of systems biology. I will also discuss several potential translational and therapeutic applications as well as future research directions related to the SCUBE family.