

## Toyomizu \_CV

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Masaaki Toyomizu is Professor in the laboratory of Animal Nutrition, head of Project Administrator Unit in the International Education and Research Center for Food and Agricultural Immunology, Tohoku University. He obtained his PhD on Biological responses to energy-yielding nutrients in chickens in 1983. He served as a scientific committee to International Symposium Energy and Protein Metabolism and Nutrition since 2007. His current projects are involved in mainly understanding the functional role of mitochondria in chickens under the several nutritional and physiological states: high protein-fed, acidotic, cold-acclimated and heat-stressed chickens. He has identified chicken UCP in the skeletal muscle, which is enhanced by cold-acclimation. More recently, he has applied modular kinetic analyses to oxidative phosphorylation, and clarified the mechanisms underlying the elevation of oxidative damages, including ROS production in heat-stressed birds.