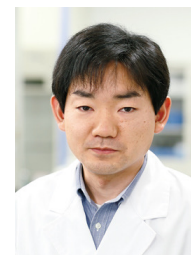


Department of Applied Biological Chemistry  
**Laboratory of  
 Biological Chemistry**



Professor  
 Minoru UJITA

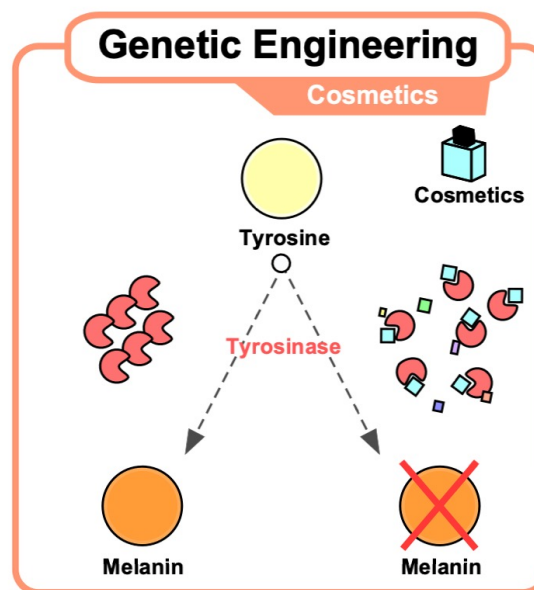
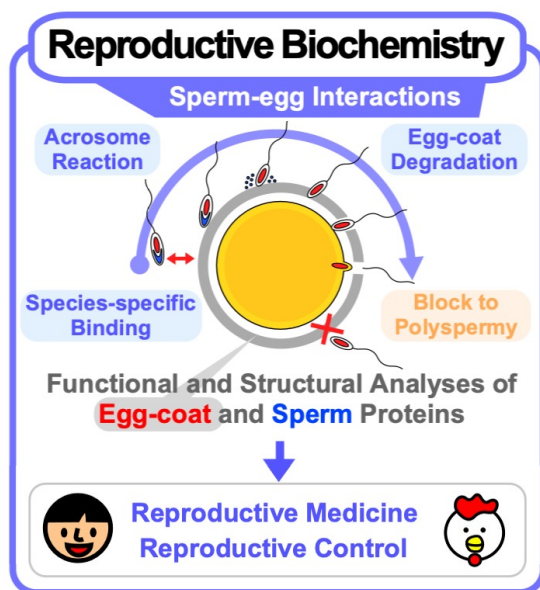
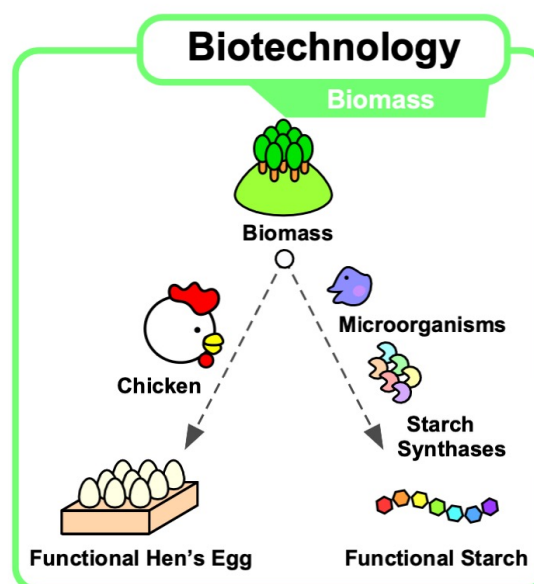
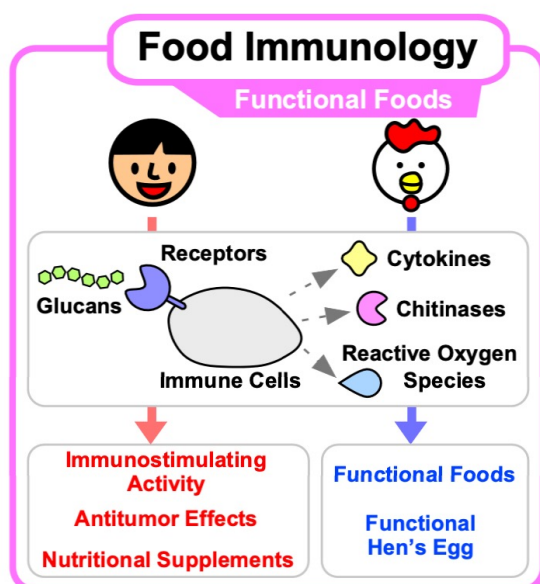


Associate Professor  
 Hiroki OKUMURA

STAFF	Professor Minoru UJITA	Associate Professor Hiroki OKUMURA
TEACHING	Biological Chemistry I & II Metabolic Biochemistry Advanced Biochemistry (MC)	Cell Biology Animal Life Science Protein and Genetic Engineering Advanced Molecular Cell Biology (MC)

# Biological Chemistry

## Proteins, Nucleic Acids, Enzymes and Carbohydrates



Recent publications: · Nishio, S., Okumura, H. and Matsuda, T. (2018) Egg-coat and zona pellucida proteins of chicken as a typical species of Aves. *Curr. Top. Dev. Biol.*, 130, 307-329  
 · Okumura, H. (2017) Avian Egg and Egg Coat. *Adv. Exp. Med. Biol.* 1001, 75-90  
 · Okumura, H. et al. (2015) Identification of distinctive interdomain interactions among ZP-N, ZP-C and other domains of zona pellucida glycoproteins underlying association of chicken egg-coat matrix. *FEBS Open Bio* 5, 454-465  
 · Ujita, M. et al. (2014) Functional expression of recombinant human macrophage β-glucan receptor dectin-1 using baculovirus-silkworm expression system. *Biosci. Biotechnol. Biochem.* 78, 1203-1205  
 · Okumura, H. et al. (2012) Diverse lectin-binding specificity of four ZP3 glycoprotein isoforms with a discrete isoelectric point in chicken egg coat. *Biochem. Biophys. Res. Commun.* 424, 586-592  
 · Ujita, M. et al. (2011) Expression of active and inactive recombinant soluble trehalase using baculovirus-silkworm expression system and their glycan structures. *J. Biosci. Bioeng.* 111, 22-25  
 · Ujita, M. et al. (2011) Binding specificity of the recombinant cytoplasmic domain of *Cordyceps militaris* β-1,3-glucan synthase catalytic subunit. *Biosci. Biotechnol. Biochem.* 75, 171-174