

生物化学研究室

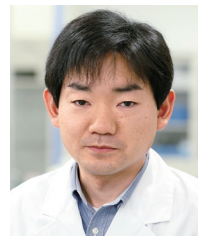
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生化学特論(大学院)

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研究テーマ

生命・遺伝子・タンパク質・糖の科学

研究内容

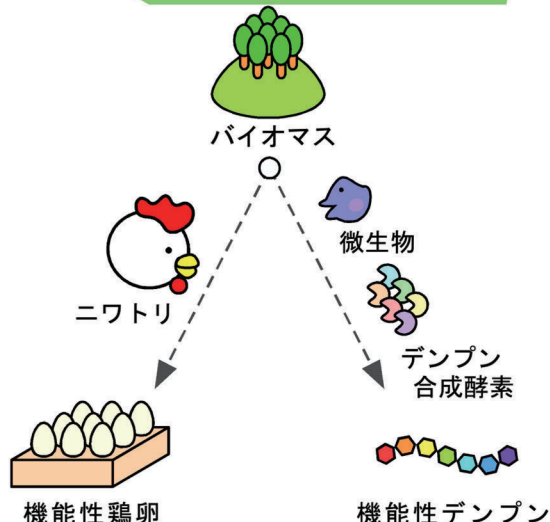
食品免疫学

機能性食品の開発



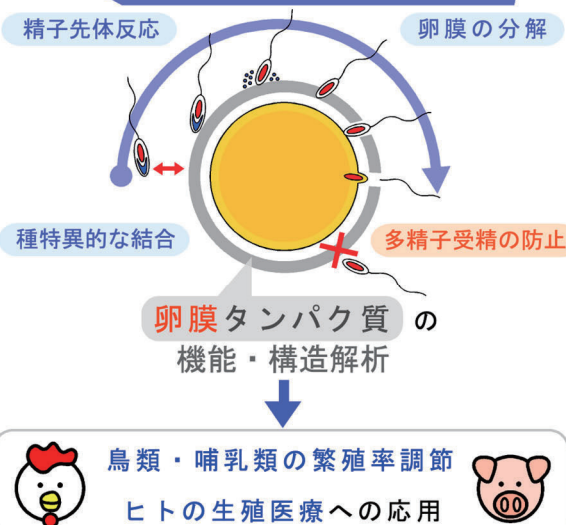
バイオテクノロジー

バイオマスの有効利用



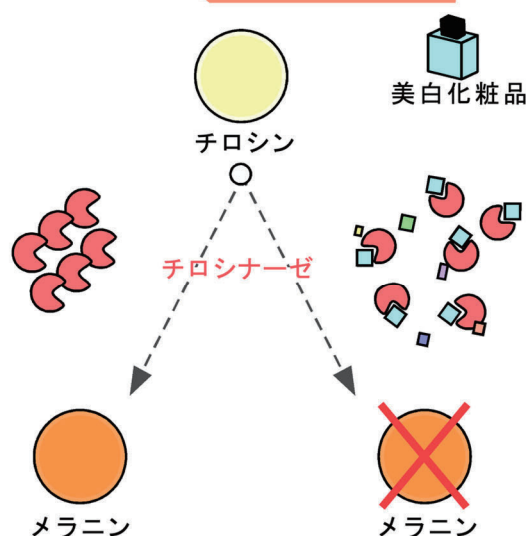
動物生命科学

受精の分子メカニズムの解明



遺伝子工学

化粧品の開発



最近の主な論文・著書 / Okumura, H. et al. (2023) New insights into the role of microheterogeneity of ZP3 during structural maturation of the avian equivalent of mammalian zona pellucida. *PLoS One* 18(3), e0283087

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

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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