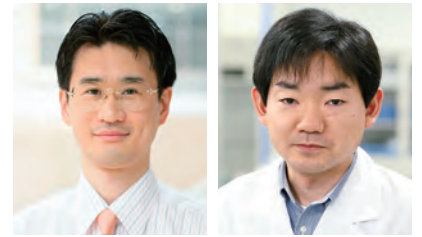


# 生物化学研究室



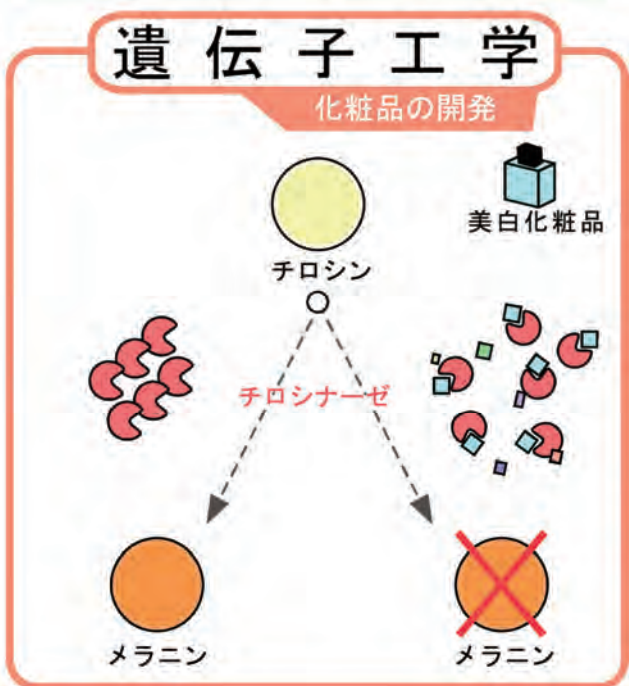
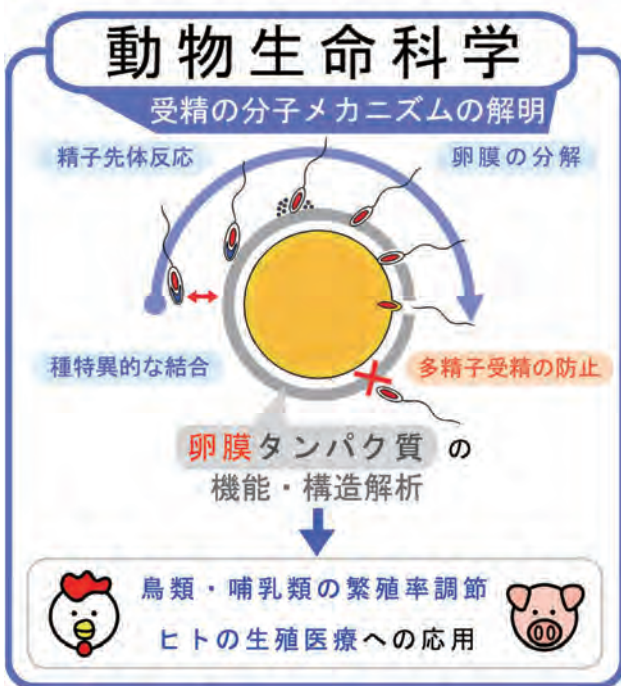
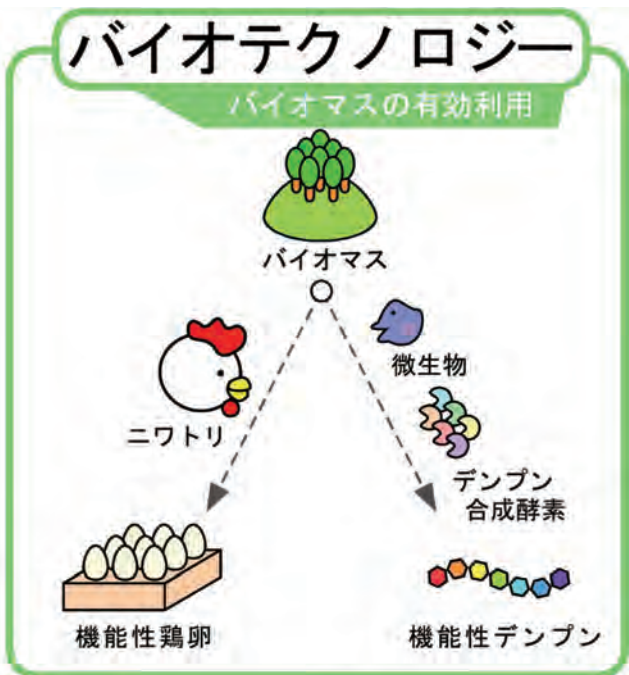
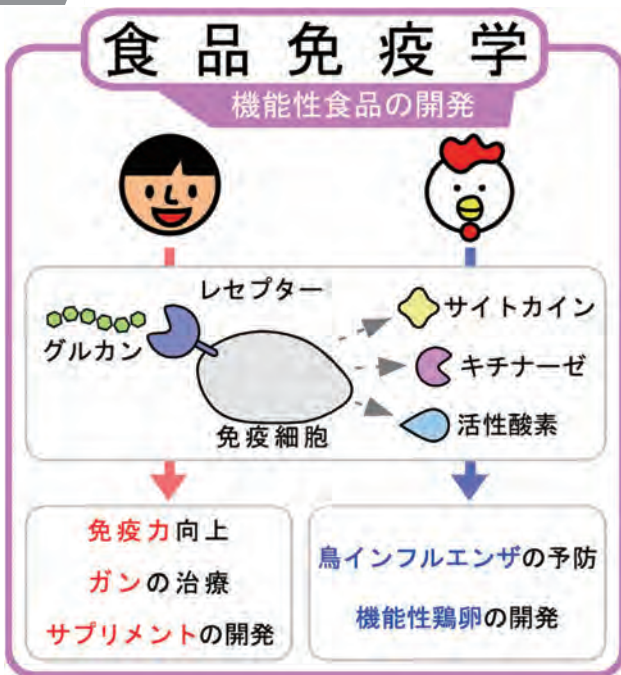
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## 研究テーマ 生命・遺伝子・タンパク質・糖の科学

### 研究内容



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
- 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  $\beta$ -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*  $\beta$ -1,3-glucan synthase catalytic subunit. *Biosci. Biotechnol. Biochem.* 75, 171-174