Division of Natural System	Research field	Biologically Active Material Engineering	Lab. ID NS12

Laboratory web site

Research subjects

Many living organisms, including us human being, are living by consumption of ATP as a energy source which is produced by respiration. Energy metabolism comprises a series of interconnected metabolic pathways and their activities are balanced via various homeostatic mechanisms. Many kinds of environmental stresses cause homeostatic imbalance and results in an exccess production of reactive oxygen species (oxydative stress). Oxydative stress is though to play an important role in aging, pathogenesis and so on. In our laboratory, we are investigating about oxydative stress by focusing on the various antioxidant systems and stress-signaling pathways.

Master/Doctor course: Education policy, curriculum, typical activity in the laboratory

It is important to carry out research on your own interests. We request you to understand deeply on the specialized subjects and also obtain professional skill on your research field. Furrthermore, it is required to improve your presentation and communication skill in English and Japanese through perusal of research articles, presentation and discussion about your resarch.

Daily life in the laboratory, etc.

It is important to do experiment everyday in the laboratory. Research seminars and journal reviews are held every week.

Message or comments by the laboratory faculty staffs

Recent Master theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)
2017.3	The contribution of RIG-I-MAVS pathway to anti-fibrotic effects of erythropoietin
2017.3	Structural determination of a novel mycosporine-like amino acid derivative from the cyanobacterium *Nostoc commune*
2017.3	Analysis of the antioxidant activity of phenylpropanoid derivatives
2016.3	Study on increased solubilization of respiratory complexes in S. cerevisiae BY4741
2016.3	Quantitative determination of composition of vitamin E in brown rice

Recent Doctoral theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)
2017.3	Rapid response of the steatosis-sensing hepatokine LECT2 during diet-induced weight cycling in mice

Laboratory mail address: Prof. Seiichi matsugoh <s-matsugoh@se.kanazawa-u.ac.jp>