Division of Biological Science and Technology	Research field	Functional Molecules in Plants	Lab. ID BS04
Laboratory web site	https://nishiuchitakumi.com/		

Research subjects

Phytopathogenic Fusarium species (e.g. F. graminearum) are the etiological agents of Fusarium head blight (FHB) in monocotyledonous plants such as wheat and barley. These pathogenic fungi produce trichothecene phytotoxins, which are thought to be virulence factors in the infection of plants by Fusarium species. Arabidopsis is susceptible to F. graminearum and F. culmorum, and trichothecene production was detected in Fusarium-infected Arabidopsis flowers. Arabidopsis is a useful model for studying the mode of action of trichothecenes in higher plants. In our study, we performed functional analysis of Arabidopsis proteins regulating disease resistance against trichothecene-producing Fusarium species.

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

We have Journal Club and Lab Meeting weekly. You report your progress monthly to your adviser. Oral or Poster Presentation at a anuual meeting is required for a Master courese student and a PhD candidate must be prepare a draft of publication.

Daily life in the laboratory, etc.

Core time: M-F, 10am-5pm.

Message or comments by the laboratory faculty staffs

Researchers in our lab can technically support your study. You should actively communicate with other researchers in our laboratory.

Laboratory mail address	Takumi Nishiuchi (tnish9 at staff)