

Graduate School of Bioagricultural Sciences, Nagoya University

List of potential Nagoya University collaborators

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Plant Science

[Rice breeding by using useful agricultural genes](#)

Prof. Motoaki Ashikari

[Development of nested association mapping in rice \(1\)](#)

[What we do for improvement of rice production \(2\)](#)

Assoc. Prof. Kazuyuki Doi

[The root of it: understanding the molecular basis of lateral root development in rice](#)

Prof. Yoshiaki Inukai

[Understanding the molecular basis of nitrogen starvation responses in plants](#)

Assoc. Prof. Takatoshi Kiba

[Interfamily grafting of plants](#)

Prof. Michitaka Notaguchi

[Tissue, cell to organelle multi-scale 3D-anatomy](#)

Asst. Prof. Takao Oi

[Quantitative analysis of cytokinins and auxins](#)

Prof. Hitoshi Sakakibara

[Screening of microbes that degrade plant pathogenesis related compounds](#)

Asst. Prof. Ikuo Sato

[New mass spectrometry technology](#)

Assoc. Prof. Katsuhiro Shiratake

[Isolation of target tissues using laser microdissection \(LM\)](#)

Assoc. Prof. Hitokazu Takahashi and Prof. Mikio Nakazono

[Functional analysis of enzyme genes in plants and filamentous fungi](#)

Prof. Daigo Takemoto and Dr. Maurizio Camagna

[Nutrient acquisition and growth response to environment by crop plants](#)

Assoc. Prof. Katsuya Yano

[Research strategy to improve salt tolerance of crop plants](#)

Assoc. Prof. Siro Mitsuya

[Molecular mechanisms of plant immune system mediated by NADPH oxidase and MAP kinase](#)

Assoc. Prof. Hirofumi Yoshioka

[Elucidation of the molecular mechanism of internodal elongation in rice](#)

Asst. Prof. Kesuke Nagai

Microbiology

[Analysis of baculovirus host range factor using bacmid system](#)

Asst. Prof. Rina Hamajima and Prof. Motoko Ikeda

[Isoprenoid biosynthesis in Archaea: from modified mevalonate pathways to Archaeal membrane lipids](#)

Prof. Hisashi Hemmi

[Screening of microbes that degrade plant pathogenesis related compounds](#)

Asst. Prof. Ikuo SATO

[Functional analysis of enzyme genes in plants and filamentous fungi](#)

Prof. Daigo Takemoto and Dr. Maurizio Camagna

[Functional analysis of enzyme genes in plants and filamentous fungi](#)

Prof. Makoto Kimura

Animal Science

[Nutrient absorption in fish placental structure](#)

Asst. Prof. Atsuo Iida

[Function and regulations of ion channels in cardiac and skeletal muscles](#)

Assoc. Prof. Andres D. Maturana

[Avian maternal immunity and its application to egg production](#)

Prof. Atsushi Murai

[Transgenesis of chicken and quail towards designed-type breeding](#)

Prof. Ken-ichi Nishijima

[Chemical screening of circadian clock modulators](#)

Prof. Takashi Yoshimura

Technologies and Practical Studies for Agriculture

[Effective use of agricultural products with an engineering sense](#)

Assoc. Prof. Tetsuya Inagaki

[Development of nondestructive technologies for agricultural and food products quality inspection using spectral imaging methods](#)

Asst. Prof. Te Ma

[Development of technologies for agricultural decision-making](#)

Asst. Prof. Shunsaku Nishiuchi

[New mass spectrometry technology](#)

Assoc. Prof. Katsuhiro Shiratake

[Developing low-cost and high-throughput technique for evaluating water use characteristics in](#)

[rice, maize, and soybean](#)

Asst. Prof. Daisuke Sugiura

[Investigation of cellulose materials by using THz-TDS](#)

Asst. Prof. Han Wang

[Practical Studies in Africa](#)

Assoc. Prof. Daigo Makihara

[Practical Research on Rural Development in Developing Countries through the action research method](#)

Assoc. Prof. Kasumi Ito

Chemical Biology, Enzymology

[Structure-function relationship and protein engineering of enzymes and enzymatic substrates](#)

Asst. Prof. Jasmina Damnjanovic

[Target identification and binding mode analysis of bioactive natural products](#)

Prof. Masaki Kita

[Chemical synthesis of biologically active natural products](#)

Prof. Toshio Nishikawa

[Function and regulations of ion channels in cardiac and skeletal muscles](#)

Assoc. Prof. Andres D. Maturana

Forestry

[Considering Watersheds as Water, Sediment, and Energy Cycles.](#)

Prof. Takashi Gomi and Asst. Prof. Ayumi Kotani