

Consortium for Industry-University Genome Editing Technology

One of the features of this program is that students are trained to conduct cutting-edge and practical research through collaboration with companies participating in the Program on Open Innovation Platform with Enterprises, Research Institutes, and Academia and partner institutes.

The Program on Open Innovation Platform with Enterprises, Research Institutes, and Academia (adopted in 2016)

Development of innovative genome editing technologies for creating useful cells and living organisms

Participating Universities and Institutes (10 institutes)

(Secretarial Institute)

Participating Private Companies (23 companies)



Leading-edge genome editing technology

Akihiko
Genome
Research Center

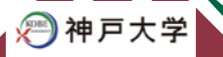


In collaboration with Hiroshima University and Tokyo Institute of Technology, Mazda is making efforts to research bio-based liquid fuels produced from renewable biomass as an alternative for fossil fuels, such as gasoline and diesel oil. The goal is to considerably reduce Well-to-Wheel CO₂ emissions in order to create a sustainable automobile society. We believe that genome editing technology will contribute to innovation in dramatically improving the efficiency of biomass-derived liquid fuel, and we hope to contribute its further development to reduce cumulative CO₂ emissions as well to consumption.

Doctoral Program for World-leading 甲南大学 & Smart Education

The Frontier Development Program for Genome Editing

Genome editing technology has been widely used in various fields, and its application is expected to expand. However, genome editing technology is still in its infancy, and there are many challenges. We are currently conducting collaborative research with Hiroshima University on genome editing databases using AI. We hope that this research will contribute to the application of genome editing to a wide range of industries, creating innovative products and services, and solving various social problems.



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The Frontier Development Program for Genome Editing is based on curricula led by world-class domestic and overseas genome editing researchers. Its purpose is to train specialists who can adapt to changes in industrial structures and social trends as new biological industries emerge. We will establish the five-year Life Science Course to develop new industries and the four-year Medical Course to study diseases and develop genome editing-based therapies and drugs. In these courses, students will learn the basic and applied knowledge and technology of genome editing. A wide variety of curricula will be provided in advanced technologies, including training at the Center for iPS Cell

Admission from universities across Japan
(including those participating in the OPERA)

Foreign students mainly in Asia

Admission of people working
for companies participating in the OPERA
or their relevant companies

