Setsuro Tech Inc. provides innovative genome editing technology and contributes to the further development of industry, people's health, and wellbeing.



# Setsuro Tech Inc.

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New "PAGEs" in the Genome Editing Industrial Revolution for all industries anywhere in the world.



### Solving the big challenges we face in the near future

# Genome editing, the basic technology of Setsuro Tech, is expected as a new technology for solving the challenges.





# Vision of PAGEs

"PAGEs" is an abbreviation for Platform App (lication) using Genome Editing by Setsuro Tech. PAGEs reflects our idea that "genome editing will add new pages in all industries anywhere in the world and bring about a revolution in the genome editing industry".

Regardless of the company size from small-middle to large and the scope of business and industry, we Setsuro Tech provide genome editing technology through contract R&D activities of PAGEs. With PAGEs, Setsuro Tech generates breakthrough to the current production systems and provide solutions to social and environmental problems beyond business issues. Changing what is impossible so far to possible is the most attractive point of genome editing.



# What is genome editing?

Genome editing technology is a technology that can change the original properties of living organisms specifically and precisely. It is far more accurate than conventional breeding methods and can "bring out the diverse abilities of living organisms" without introducing genes of other organisms. It is also possible to add new functions and abilities by inserting the desired sequence in a specific location.





### Characteristics and Advantage of Genome Editing

Genome editing enables to change of the traits of animals, plants, and other organisms only within one to a few generations. By altering the genes of organisms, genome editing realizes the shortened period of breeding in animals and plants, improvement of productivity, and establishment of high value-added products.





The point is how to cause the desired mutation! Genome editing can change the gene sequence without introducing any gene from other organisms.

Got it! This is identical to the traditional breeding

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Shorter Breeding Period Disease Resistance Higher Value

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# Image of using PAGEs

With PAGEs, you can use genome editing technology of Setsuro Tech in the development of new traits in a wide range of species and the production

of useful and valuable substances. Also, for business development, you can expect to create synergistic effects on various business domains,

regardless of whether it is a new or current business, with PAGEs and Setsuro Tech's genome editing technology.

We aims to provide the best choice for your business development in combination with your current technology, resource, and ideas and Setsuro Tech's technologies.



### PAGEs project progress flow

In PAGEs, we provide all-in-one support of business development from R&D planning to commercialization. You can effortlessly carry out business development by genome editing with PAGEs.

We make the best R&D plan through consultations, which start from deep interviews on your interest in organisms, characteristics, and traits and set up goals. After initiating R&D activities, we proceed with R&D in line with the established plan with regular progress reports and then produce genome-edited animals and plants and evaluate them. We can support the business development and commercialization according to the request of clients.







### **Development and Commercialization of Developed Products**

You can outsource the R&D of new products to Setsuro Tech.

PAGEs provides not only the R&D service but also commercial production and sales of developed products.



New product



Commercial production



#### We are waiting for someone like this

You in charge of new business development! Product development with high advantage. Creating new value for existing industries!

# Out-licensing

Setsuro Tech provides the out-licensing service of our genome editing technology and products that it developed. You can use our assets for your business.



#### We are waiting for someone like this



You want to use genome editing in your R&D work! Would you like to try genome editing?



If you have struggling with high license fee of Cas9, here is your chance! Our nuclease ST8 is available for your research.

### Assets and Competitiveness of Setsuro Tech



### Gene Editing by Electroporation



GEEP method is an innovative genome editing method that enables genome editing with higher efficiency and higher quality than conventional methods.

	Electroporation	GEEP method
Handling time of ertilized eggs (150 eggs)	>120min	<15min
Skilled Technician	Necessary	Unnecessary
Automation	Difficult	Possible
Technology establishment	2014	2015

### Setsuro Tech can provide the services such as



Analyze the DNA samples of your animals and plants, and find out the difference in traits from the gene sequences.



Bio-consulting service with the expertise of Setsuro Tech.

Recommended as a first validation experiment! Why don't you try genome editing with Setsuro Tech?



# Flow to the R&D initiation



### COLUMN **Do "natural" cauliflowers exist in nature?**

When you hear the word "genome", you may think of a blueprint of organisms that have never changed since ancient times.
However, you can find many examples of creatures considered "natural", although their gene sequences have been "artificially" changed from the original wild species.
For example, cauliflower originates from "Yaseikanran" (Wild cabbage), which is the same species as cabbage and kale.
Natural mutations change the gene sequence of two genes

associated with the flower bud development, creating cauliflower's

symbolic white appearance by the formulation of stem cell masses instead of flowers.

Although such mutants would not continue surviving in the wild, people deliberately had selected and cultivated delicious "mokomoko" ones and have handed them down to date.

As you know, people at that time did not directly see the "genes", but as humans and other organisms lived together, as a rule of thumb, they harnessed and brought out the potential of living organisms.



# Message



### Chairman and CTO Tatsuya Takemoto

Setsuro Tech Inc. is founded with colleagues based on the genome editing technology developed at Tokushima University, Japan.

Since then, we have been doing research with many researchers every day, and our basic technology has been greatly improved.

With PAGEs and its contract R&D service, we will provide you with the opportunity to join the genome editing industry and develop new products by bringing out potentials of organisms without any development and validation of genome editing technology negotiation of intellectual properties.

#### Company Profile

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### Partnerships





### Supports



