

Tech Bureau Holdings Announces Gifu University Begin Collaborative Research

- Building a Distribution Management System for Dental Pulp Cells -

TOKYO – October 29, 2019 – Today Tech Bureau Holdings, Corp., a fintech and cryptocurrency solutions company, and Gifu University, a national university corporation, announced a collaborative research agreement with the aim of building a dental pulp cell distribution management system using mijin Catapult (v.2), the next-generation blockchain platform released by Tech Bureau Holdings in June this year.



Background

Dental pulp cells are a type of stem cell found in dental pulp, which contains the tooth's nerve and is a medical waste obtainable from extracted teeth such as baby teeth or wisdom teeth. Many people have their wisdom teeth removed around the age of 18, and all twenty baby teeth fall out and are replaced. Due to their extremely high capacity for proliferation while not posing a heavy burden on the body, stem cells are essential to regenerative medicine, a field which has garnered significant attention in recent years. Dental pulp cells can also be used to induce iPS cells, which are used in cutting-edge regenerative medicine treatments for spinal cord injury, age-related macular degeneration, Parkinson's disease, and more.

Gifu University began the Dental Pulp Cell Project in February 2016 and is engaged in the collection of dental pulp cells from Japanese people, the collection of dental pulp cells on a global level with the cooperation of Hungary, the building of an iPS cell stock in collaboration with the Kyoto University Center for iPS Cell Research and Application, and ongoing activities aimed at developing regenerative medicine human resources.

This project is expected to lead to the establishment of Dental Pulp Cell Research Institute, Co., Ltd., a university-initiated venture which will provide support for the handling of dental pulp cells through the development of dental pulp cell culture and testing technologies.

Objective

Blockchain technology can help prevent the alteration of data, provides excellent fault tolerance and availability, and can automate transactions and make them more transparent. Taking advantage of these characteristics to protect personal information tied to dental pulp cells while maintaining records of production quality control, distribution channels, usage results, and more will contribute to

the development of regenerative medicine and help promote the use of dental pulp cells extracted from teeth such as baby teeth and wisdom teeth.

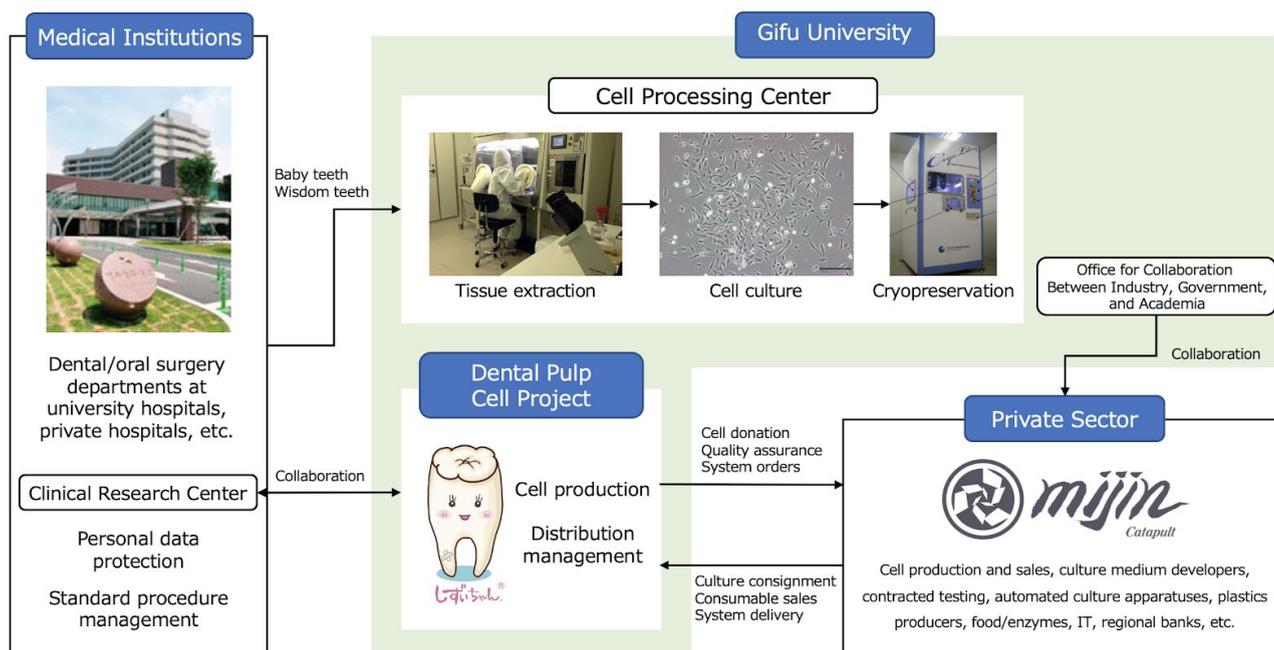
<On Beginning Collaborative Research>

“This year marks 15 years of collecting dental pulp cells at Gifu University, which all began as a result of thinking ‘what a waste.’ The university has begun to receive attention from around the world for its success with iPS cell induction and mass culture research using automated culture apparatuses. However, what has conventionally been considered common sense in pharmaceutical production does not apply to the production and distribution of cell resources. All cells are produced and transported while ‘alive.’ This means they are extremely delicate and unstable, making granular and accurate record-keeping a necessity. The tamper-resistance and transparency of blockchain technology is a great match for cell management, which is why we are excited to tackle this difficult challenge in collaboration with Tech Bureau Holdings.”

Kenichi Tezuka

Associate Professor, Gifu University Graduate School of Medicine

<Overview of the Dental Pulp Cell Project>



About Gifu University

This year marks the 70th anniversary of the founding of Gifu University. Taking advantage of the distinguishing feature of having all undergraduate and graduate programs located on a single campus for educational and research activities, the university provides an education focused on training highly skilled professionals. Gifu University is committed to conducting high-quality research that serves as the foundation of that education and to achieving internationalization rooted in the local community. As a core hub for reinvigorating local communities, the university also plays a role in regional revitalization through such efforts as providing local communities with the benefits derived from such activities.

Gifu University and Nagoya University will merge operations in April of next year to form the Tokai National Higher Education and Research System.

<University Details>

Name: Gifu University

Address: 1-1 Yanagido, Gifu City, Gifu Prefecture

President: Hisataka Moriwaki

Established: May 31, 1949

Students: 7,484 (as of May 1, 2019)

Official Website: <https://www.gifu-u.ac.jp/>

About *mijin*

“*mijin*” is a software supports to create private blockchain environments that can be used inside and/or outside of corporates on the cloud and/or in an in-house data center. It can dramatically reduce costs by replacing conventional databases or accounting systems while contributing to higher security in which prevents from falsification. Additionally, it can be used to implement an environment with practically zero downtime. “*mijin*” is a general-purpose private blockchain product which uses the “NEM protocol” that is developed together with a “NEM” core developer. As a joint development, not only limiting to financial institutions, but it can be also implemented for electronic money, verification system, registration system, and logistics tracking.

About Tech Bureau Holdings, Group

Tech Bureau Holdings, Corp., fintech and cryptocurrency group companies in Japan, the U.S., and Europe, develop software and services for cryptocurrency technology and blockchain technology, a so-called "Crypto-Fintech Lab". As a team and as a group, we have developed *mijin*, a private blockchain software. Tech Bureau Holdings, Corp. recently launched a one-stop solution, COMSA, which provides companies with consultation, expertise, and solutions to support their very own ICOs and implementations of blockchain technology into their businesses.

For more information, please see the following URLs:

mijin - <https://mijin.io/en/>

COMSA - <https://comsa.io/en/>

Facebook - <https://www.facebook.com/mijinio>

Twitter - https://twitter.com/mijin_io

Press contact, Tech Bureau Holdings: Aoki / pr@techbureau.com / +81-3-4530-0344

About NEM.io Foundation Ltd

ABOUT THE NEM Foundation Ltd NEM.io Foundation is registered in Singapore, operating globally. It was launched to promote NEM’s blockchain technology worldwide. It is one of the most well-funded and successful blockchain technology projects in the cryptocurrency industry.

For more information, please visit:

NEM.io Foundation - <https://nem.io/>

Facebook - <https://www.facebook.com/ourNEM/>

Twitter - <https://twitter.com/NEMofficial>

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