Info Sheet for Technical description

Ver.1.0

No. 0004

Organization

* Mandatoty fields Name of Organization* iHeart Japan corporation Address, City, States, Zip, Country* 280, Tenjinyamacho, Kyoto-shi Nakagyo-ku, Kyoto, 604-8221, Japan URL Developing allogeneic regenerative medicinal products derived from iPS cells, and selling research tools for cardiotoxicity and efficacy. The base technology was invented by Prof. Jun Yamashita of Kyoto Univ. Center of iPSC Brief Descriptions of Organization* Research and Application at the time.iHeart Japan Corporation were founded in 2013 and then acquired core patents. We established our own cell processing facility (CPF) in Kyoto, in which we manufacture our products under (Approx. 100 words) the regulation of Japan called as Good Gene, Cellular, and Tissue-based Products Manufacturing Practice (GCTP) compliant system. We are developing a regenerative medicinal product for heart failure. JIANG Zixian Name Contact address Department* / Position Operation Department E-mail* / TEL zixian.iiang@iheartiapan.ip

What kind of technology do you want to offer? *

- V A. Clinical Development Pipelines
- B. Regenerative Medicine-related Consumables / Instruments / Materials / CDMO Servicies etc.
- C. Platform Technologies(*) that are not included in the above (Group B)

* Peripheral technologies that contribute to a significant improvement in productivity throughout the value chain of pharmaceuticals, from research and development to manufacturing and ultimately market launch.

If you agree to the following, please check "Yes" below. *

The technologies introduced in this 'Info Sheet' are in the public domain, as they have been published in research papers or have related patent applications.

N Yes

Do you have any collaborations/partnerships with pharmaceutical companies?

- Yes
- **v** No

If you have already received funding from VCs or other sources, up to which stage has the investment round progressed?

Angel / Seed	(including AMED/JST grants)
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- Series A
- Series B
- √ Series C
- Series D or further advenced stages

Do you agree to leave your presentation materials at FIRM hands and entrust us to make use of them for the purpose of promoting your partnering opportunities? *

Options*	Comments
Yes	
No	

Yoshinobu Miyata Filled in by* Date* 12/9/2023

→ Please see Sheet [A]

- \rightarrow Please see Sheet (B)
- → Please see Sheet [C]

Sheet [A] Clinical Development Pipelines

Info Sheet for Technical overview

No. 0004

* Mandatoty fields Title* iHJ301 **Development Phase* Basic Research** Drug Discovery \checkmark Pre-Clinical Clinical Trial (Phase I) Clinical Trial (Phase II) Clinical Trial (Phase III) Review Others Diesease Area* Cancer Central nervous system Ophthalmology Endocrine / Metabolism Musculoskeletal 1 Cardiovascular Urogenital Digestive organ Blood Infection Immunity Dermatology

Description*

cardiomyocytes and vascular endothelial cells from iPS cells. Furthermore, we also have a cell sheet lamination technology using gelatin hydrogel microspheres, which enables us to manufacture multi-layered cardiac cell sheet. We named the product as IHJ-301.

Respiratory

IHJ-301 showed extremely high efficacy for myocardial infarction model of pig. In that case, cardiac functions of pigs were recovered to the equivalent level to those of healthy pigs. We believe that the gelatin hydrogel microspheres contribute to the long-term survival of IHJ-301 implanted on the surface of the heart of pig. During such long-term survival, IHJ-301 secreted large amount of various cytokines and extracellular vesicles, and repaired the heart tissue of disease model pig. That is the competitive advantage of IHJ-301. Furthermore, IHJ-301 showed great effectiveness for dilated cardiomyopathy model of hamster, having genetic mutation of gamma sarcoglycan.

We have almost completed pre-clinical studies of IHI-301 and we expect that we can get permission to

Filled in by*

Otolaryngology

Yoshinobu Miyata 12/9/2023

Others