Shiga Pref., Japan

Ohtsu City

MU Ltd.

A Pioneer of the Independent Medical Mini-robots (IMER) System

Outline and Principal Business

Turning Points

[Approach to IMER system]

After the retirement of the president from Ryukoku Univ. in March of 2011, MU Ltd. was founded to realize the self-propelling capsule endoscopy (or the independent medical minirobots, IMER, system) "MiniMermaid ®" with Individual and continued 20 years development.

Leading Products

Strength

[Significance of IMER System]

The capsule endoscope (CE) is an innovative device for painless examination of the interior of the gastrointestinal tract, especially small intestine, which was given initial approval by the U.S. Food and Drug Administration in 2001. Unlike the conventional esophagogastroduodenoscope (EGD) and colonoscope, CE does not allow examiners to observe a lesion from a desired location and direction in real time. To overcome this disadvantage, we have been endeavoring to develop a driving

system for a CE using a magnetic field.

After making a contract with Osaka Medical College, we have successfully applied the system to stomach of a dog in vivo in 2009, stomach and colon of a human in 2010 and total digestive tract of a human in 2011.

The system will be a pioneer of painless

medical mini-robots capable of moving freely in the body.



MiniMermaid

Mag. field

Generator



Future Development

Vision

[Expected Market]

As the IMER system is applicable to clinical diagnosis of whole digestive tract in a short time at once, great market is expected to find cancer earlier and to improve QOL.

(Searching for partners)

We are looking for business partners to assist in obtaining registered medical certification and to support financially.

Company Data

Data

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URL: http://www.mu-frontier.com **Foundation**: March 16, 2011

President & CEO: Naotake OHTSUKA (PhD in Engineering, Registered Cons. Engr, Emeritus Prof. of Ryukoku University)

Stomach wall shot by MiniMermaid



MiniMermaid

swimming in stomach of a