

Press Release

Ball Wave Inc.

Ball Wave Concluded a Basic Agreement with Sysmex on Joint Development in the Field of Next-Generation In-Vitro Diagnostics Using Exhaled Breath and Skin Gases

Ball Wave Inc. (Headquarters: Sendai City, Miyagi Prefecture; President and CEO: Shingo Akao; hereinafter referred to as "Ball Wave") has concluded a basic agreement with Sysmex Corporation (Headquarters: Kobe City, Hyogo Prefecture; Chairman and CEO: Hisashi Ietsugu; hereinafter referred to as "Sysmex") regarding joint development in the new field of in-vitro diagnostics using samples such as breath and skin gases.

In recent years, telemedicine and home medical care have been rapidly expanding, and it has become an issue to enhance digital health by acquiring various diagnostic data from homes, visiting nursing stations, clinics, and hospital bedsides and connecting them on the network. Therefore, there is a demand for the development of ultra-compact, simple, and less invasive diagnostic technology and diagnostic equipment.

Ball Wave developed and commercializes a palm-sized, ultra-compact gas chromatograph, (Sylph™)², that can detect and analyze a wide variety of trace chemical substances in gases at high sensitivity using the original chemical sensor "Ball SAW sensor"^{*1}.

Sysmex possesses a wide range of expertise and know-how related to highly sensitive detection technology for biomarkers at the gene, protein, and cellular levels, as well as the development of in-vitro diagnostic reagents and medical devices in the field of clinical testing.

The two companies will integrate Ball Wave's chemical sensing technology and Sysmex's in-vitro diagnostics expertise, and explore the possibility of new in-vitro diagnostics using breath and skin gases.

Through joint development with Sysmex, Ball Wave aims to create new value by delivering advanced diagnostics to homes, home nursing stations, clinics, and hospital bedsides, and to satisfy the diverse needs of patients and their families. We will contribute further by improving the benefits of

【reference】

■ About Ball Wave Inc.

Ball Wave aims to help our society to be safe, secure, clean and sustainable by delivering high speed and high sensitivity ball SAW sensors for detection and monitoring of trace chemical substances. Ball Wave is a spin-off from Tohoku University, Japan, and developing and commercializing trace moisture analyzers, micro gas chromatographs, airborne virus sensors, etc. equipped with ball SAW sensors.

<https://www.ballwave.jp/>

■ About Sysmex Corporation

In line with its mission of “Shaping the advancement of healthcare,” which is defined in the “Sysmex Way,” the corporate philosophy of the Sysmex Group, Sysmex works to contribute to the development of healthcare and the healthy lives of people. Sysmex conducts integrated R&D, manufacturing and sales, and provides support services for its instruments, reagents and software for in vitro testing of blood, urine and other bodily fluids. Sysmex supplies its products to medical institutions in more than 190 countries and regions throughout the world. In recent years, Sysmex has been expanding its business in the life science domain, using proprietary technologies to create new testing and diagnostic value, realize healthcare that is optimized for individual patients, and help reduce patients’ burdens and enhance their quality of life.

<https://www.sysmex.co.jp/en/>

■ Glossary

*1 Ball SAW sensor: A sensor that uses a spherical surface acoustic wave (SAW) that concentrates on the surface of a sphere and circulates repeatedly without spreading laterally.

*2 Sylph: A palm-sized, ultra-compact chemical analysis device developed by Ball Wave in collaboration with JAXA (Japan Aerospace Exploration Agency).



■ Contact information

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