

**Corporate Communications**

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## Press Information

### **Award-winning Opharmic technology and CeramTec ceramics enable non-invasive drug delivery**

*Plochingen/Southampton, April 28, 2022.* More than 500 million patients worldwide suffer from eye diseases such as macular degeneration and diabetic retinopathy, and up to 30 percent of patients refuse corresponding treatments because these used to require direct injection into the eye. Opharmic Technology has developed a transformational ultrasonic non-invasive ocular drug delivery device with the goal of replacing intravitreal injections. The Hong Kong-based start-up is partnering with CeramTec to develop and produce the high-power transducer that enables the technology.

#### ***Need for non-invasive ocular treatments***

“Eye patients are increasingly looking for non-invasive treatment options at affordable pricing. Our ultrasound drug delivery system delivers therapeutics in the eye through the sclera by ultrasound-induced microstreaming, in which the drug molecules can diffuse into target eye tissue,” explains Opharmic CEO Langston Suen. In comparison to conventional eye injections, this non-invasive procedure is expected to have the potential to save up to 80 percent of time needed in drug administration.

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## ***CeramTec know-how for customised transducers in medical devices***

CeramTec's specialised sensor and transducer expertise enabled the fine-tuning of Opharmic's ultrasonic transducer design in order to achieve the required consistency and performance. "As an ISO 13485-certified medical supplier with know-how in both transducers and electro ceramics, we believe we are the perfect fit for medical start-ups working with ultrasonic technologies. Typically, in such development projects, our customers need support to improve their designs so that these are manufacturable in high volumes while allowing reliable performance. Our R&D team in Southampton have the knowledge and experience to guide customers through the development process and ensure the final product precisely matches technical requirements," says Liam Dillon, Business Development Manager, Medical Equipment, at CeramTec.

Opharmic's novel drug delivery device was last year recognised as the winner of the 2021 Asia Pacific Accelerator program. The program is run by MedTech Innovator, one of the largest accelerators of Life Science companies in the world, and the Asia Pacific Medical Technology Association (APACMed).

For more information on CeramTec's medical equipment capabilities see: [www.ceramtec-medical.com/en/medical-equipment](http://www.ceramtec-medical.com/en/medical-equipment)

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For more information on Opharmic see: [www.opharmic.com](http://www.opharmic.com)

**ENDS**

### About CeramTec

CeramTec is a leading global med-tech platform with a focus on high-performance ceramics (“HPC”) solutions, and is specialized in the development, manufacturing and sale of parts, components and products made from ceramic materials. With over a century of developmental and production experience in the HPC industry, CeramTec is a global leader in the manufacturing of advanced ceramics and engineers these materials for use in a wide variety of applications. HPC from CeramTec are used in a range of areas, including critical medical applications such as hip replacements, other orthopaedic implants, dental implants and medical equipment, and industries including mobility, electronics and also in other industrial applications. As of September 30, 2021, CeramTec’s portfolio comprised over 200 trademarks and over 600 patents, along with a wide variety of ceramic materials. With production sites and subsidiaries in Europe, North and South America as well as Asia, CeramTec maintains its presence around the globe as a manufacturer and supplier. CeramTec is headquartered at Plochingen, near Stuttgart (Germany).

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