

Pioneering plasma medicine

Key words: plasma medicine, chronic wound therapy, bacteria



COLDPLASMATECH



Carsten Mahrenholz

Co-founder and CEO of COLDPLASMATECH GmbH | Main products: Plasma Cube and Plasma Patch

Aim

To pioneer the next step in modern medicine, treat chronic wound patients, and kill multi-resistant bacteria

EIT Community connection

EIT Health Germany, winner of the Business Plan Accelerator "Best of the Best" 2016, and winner of the Public Award in Barcelona

The project

A Star Trek-like medical device that uses cold plasma to kill multi-resistant bacteria and treat even chronic wounds. It's not an idea – it's real.

Inspiration

We wanted to bring a new technology to the market that was researched for 10 years, to treat patients who have no hope of recovery. We wanted to fight a problem that could take us back to the Middle Ages: antibiotic resistance.

Unique selling points

Our technology is a non-systemic solution to kill superbugs directly in wounds. The active wound-dressing "Plasma Patch" is easy to use, delegable to medical professionals, mobile, treats large areas, and is adaptable in size and form based on patient and clinical needs.

EIT Community support

The EIT Community has provided us with networking, access to EU markets, communication, press events, personal help and feedback.

Teamwork

Teamwork is everything. Without the others, everyone would have failed. We are highly diversified in profession and character and we are very close – what started on a professional basis soon became friendship. Now it's "all for one and one for all". As CEO, I know that everyone supports me in my decisions, and they know I am watching their backs.

Venture development

We are setting up line production with a number of companies, including Wacker Chemie, Dätwyler, and the Schreiner Group. We already have CE Conformity for our disposable patches and are in the process of applying this in accordance with the Medical Devices Act. We are collaborating with several health insurance companies to prepare market access.

The nominee The beginning

I always wanted to combine my passion for science and economics. When I was CEO of a tech-transfer company, I co-wrote a proposal for a new technology with plasma physics and was offered the chance to lead the workgroup. Then I founded COLDPLASMATECH in 2015 and began to give it my complete focus the following year.

Entrepreneurial flair

Willingness to seek calculated risk, ability to solve problems quickly, allowing failure and being able to work around it. Being disruptive, confident, self-critical, creative and communicative.

Learning from experience

Talk to many people, learn from them and their failures, and then: find your own way!

Best memory

A 21-year-old, severely burned girl became infected with a superbug and was about to die. We built a plasma cannon overnight to treat her. She was able to receive a transplant and survived.

Ideal advisor

Steve Jobs, Elon Musk, and others doing things to change the world.



We wanted to fight a problem that could take us back to the Middle Ages: antibiotic resistance.

coldplasmatech.de

Coldplasmatech

🔰 @col

@coldplasmatech

in Carsten C. Mahrenholz

Supported by eithealth.eu