Eco Light
BIOSAFETY

Company Profile

About Eco Light Biosafety

Diversity and integration.
Driving innovation.

Biosafety is a company driven by innovation in microbiological safety, dedicated to developing advanced disinfection technologies for healthcare and beyond. Our mission is to harness the power of light to create safer environments, reducing the risk of infections and protecting public health. With a strong foundation in scientific expertise, we deliver cutting-edge solutions that set new standards in hygiene, efficiency, and sustainability.

Company Vision

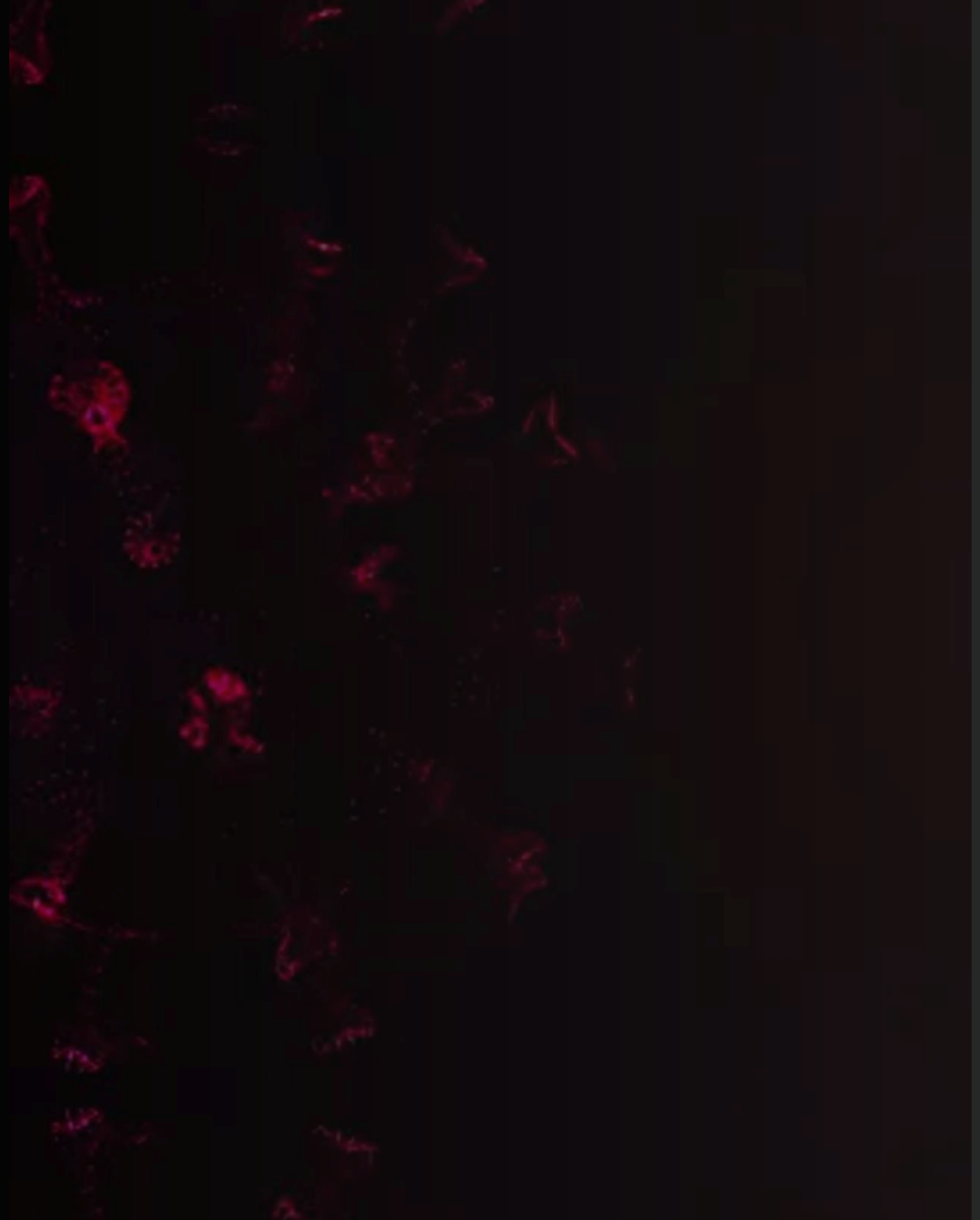
Eco Light Biosafety envisions a future where automatic UV-C disinfection, integrated with the Internet of Things for process management, data collection, and decision-making, will revolutionize microbiological safety standards in medical and commercial markets worldwide.

We believe that our holistic approach can have a positive impact not only on the industry in which we operate but also on the world in which we live. The market sets rigorous goals for us, and thanks to the passion and creativity of our team, the development of new products in a new dimension of contactless UV decontamination is our strength.

Innovation Driven by Care

Brilliance Beyond Clean

Transforming Spaces Safely



Company Mission

Our mission is to share knowledge about innovative disinfection technologies to organizations and individuals responsible for improving microbiological safety. In doing so, we aim to establish new standards of hygiene.

We focus on delivering solutions that ensure high effectiveness in pathogen inactivation in a very short time and with minimal staff involvement.

For healthcare clients, we have prepared a comprehensive, packaged approach that integrates proven methods to reduce the risk of healthcare-associated infections.

Biosafety Concept

It constitutes the cornerstone of our operations, strategically focused on safeguarding the health and well-being of individuals, the work environment, and the broader spectrum of life.

At the core of the Biosafety Concept lies a deep commitment to understanding and eliminating points of transmission for microbiological threats. This involves a meticulous process of identifying potential risks and implementing tailored procedures, protocols, and hygiene practices to strengthen the microbiological integrity of structures, water systems, air quality, and surfaces.

Our operations go beyond reactive measures; proactively, we strive to prevent and neutralize potential threats, contributing to the establishment of elevated standards of microbiological safety in various environments.

BIA Healthcare

BIOSAFETY INFRASTRUCTURE ASSESSMENT

BIA represents a groundbreaking concept of spatial information infrastructure for organizations and independent facilities. Our software paves the way for processing vast amounts of data from entire facility infrastructures and is designed to usher in the future of communication and data acquisition related to microbiological threat neutralization.

The software enables organizations to process unlimited information from checkpoints and measurement points, integrating innovative approaches to touchless, high-level, non-chemical disinfection: water disinfection, surface disinfection, and air quality improvement, along with cutting-edge lighting synchronized with human circadian rhythms.

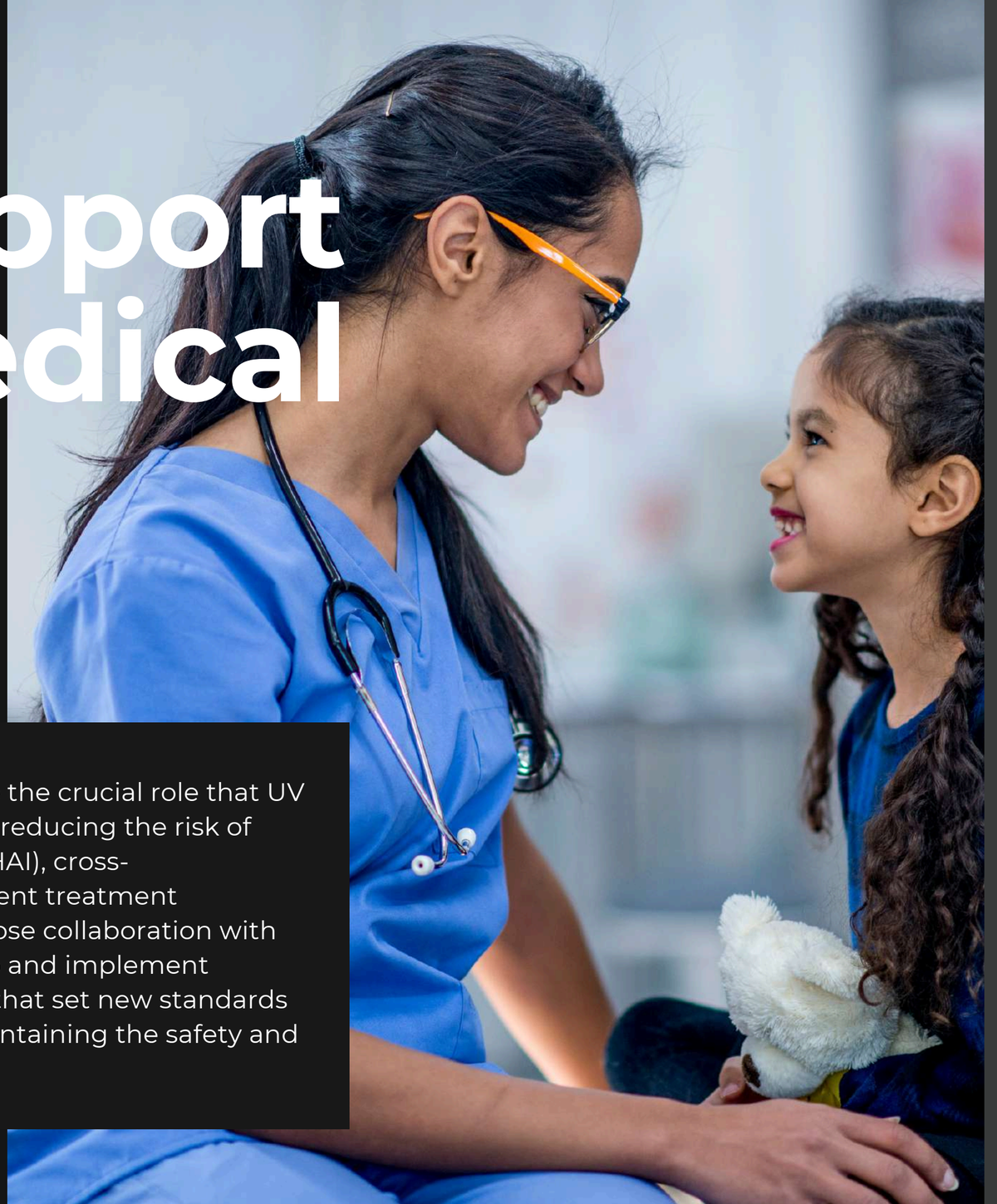
BIA signifies harmony

BIA is a that seamlessly integrates innovative approaches. It is a revolutionary idea that changes the way hospitals and institutions connect, collaborate, and construct a harmonious structure.
As our company originates from the lighting industry, we aim to merge the concept of healthy lighting with microbiological safety. Our goal is to create a seamless connection between modern lighting solutions and advanced disinfection techniques, revolutionizing the landscape of healthcare and work environments.

READY TO SUPPORT ESG REPORTING

BY COMBINING THE BIOSAFETY CONCEPT WITH LED LIGHTING TECHNOLOGY, WE ASPIRE TO ESTABLISH A NEW STANDARD, WHERE BUILDINGS NOT ONLY PRIORITIZE THE WELL-BEING OF PEOPLE BUT ALSO CREATE A TECHNOLOGICALLY ADVANCED AND MICROBIOLOGICALLY SAFE ENVIRONMENT.

We support the medical sector



In the medical sector, we recognize the crucial role that UV disinfection technology can play in reducing the risk of Healthcare-Associated Infections (HAI), cross-contamination, and improving patient treatment outcomes. We are committed to close collaboration with healthcare professionals to develop and implement effective UV disinfection protocols that set new standards of hygiene, ultimately aiding in maintaining the safety and health of patients.

OCTA-UV Multisystem

The New Era of Disinfection

Taking responsibility as a leader implementing new standards of microbiological safety in the process of touchless high-level disinfection, we provide a high-performance system with the following key features:

- effectiveness
- shortest disinfection process times based on evidence.
- excellent ergonomics
- ease of use for the absolute satisfaction of every user
- guarantees of correctly performed full cycles of disinfection and their validation.

Chemical-free solution

Achiving above 99.9999% disinfection level

Touchless

OCTA-UV

Leads ahead of the competition

01.

HIGH PERFORMANCE

- Three independent emitters with a combined power of 3600W deliver high radiation power exceeding 1100W.
- Three independent devices map the room and calculate individual doses for each application.
- Each emitter generates a 360-degree radiation distribution, and the innovative OPTIex optical system ensures high radiation uniformity in the room.
- Materials used in the OPTIex optical system provide a reflectance coefficient above 90% and guarantee consistent device operation at nominal parameters.

02.

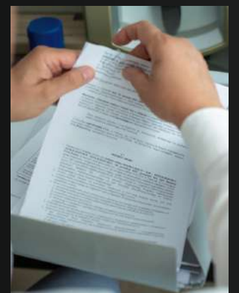
HIGH UNIFORMITY

- OCTA-UV Multisystem ensures radiation uniformity and eliminates shadowing effects with its 3 independent emitters.
- There is no need to relocate devices to achieve a highly efficient disinfection process.
- Thanks to a perfectly coordinated system, the disinfection time is extremely short.
- The applied technology guarantees a high level of radiation with optimal device cooling to ensure the highest efficiency of UV radiation.
- Our system achieves optimal results when utilizing 3 emitters in a single room.

The impact of **3**

Enhancing well-being and productivity

Software tools and solutions for governance.



The integrated technology solution that inspires trust.

03.

ERGONOMY

- Special medical double-bearing wheels make the device highly maneuverable.
- Materials used in the construction, such as aluminum and high-quality 3D printed composites, ensure a lightweight yet durable device.
- The dimensions and weight of the device allow for versatile applications of the OCTA-UV system.

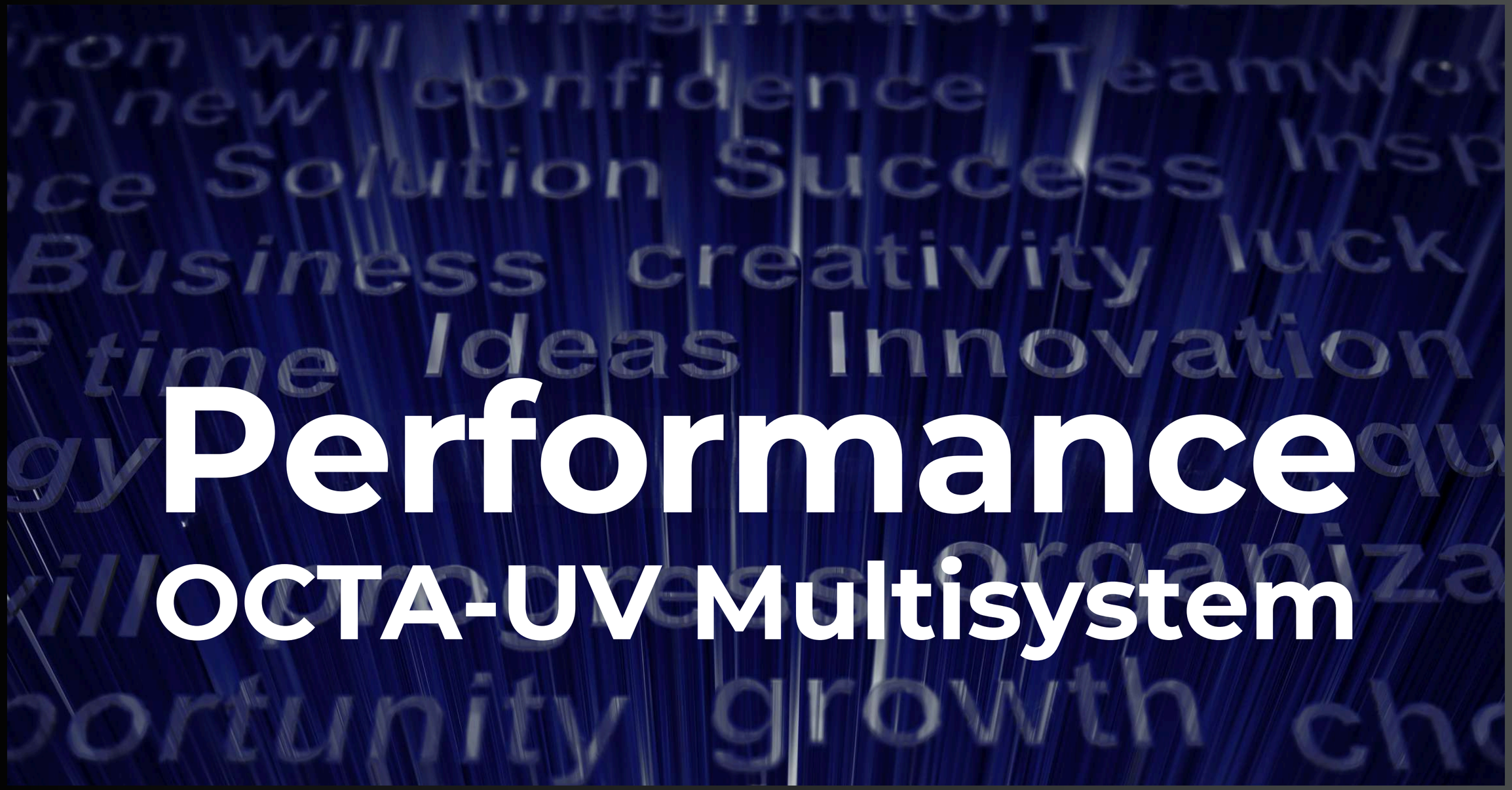
Your safety, our priority

Achieve environmental health, safety, sustainability goals and requirements.

04.

SAFETY

- The system ensures a high level of safety for both users and operators.
- By employing motion and presence sensors, our software eliminates the possibility of accidental device activation, as well as unauthorized access to the space where the disinfection process is taking place.
- Wireless device management through a Bluetooth-enabled tablet allows remote communication even from a distance of several meters.
- Built-in visual LEDs provide information about the device's operating status, incorrect configuration, or warning functions.


Performance
OCTA-UV Multisystem

Tested straoin	Carrier type	Time 6 Minutes				Time 10 Minutes			
		Control	Avarage for 5 Carriers	Number of eliminated bacteria cells	% Reduction	Control	Avarage for 5 Carrier type	Number of eliminated bacteria cells	% Reduction
S.aureus	Plastic	2,1E+06	4,4E+03	2,1E+06	99,8	8,6E+05		8,6E+05	99,9
	Glass	2,1E+06	1,0E+03	2,1E+06	100,0	9,0E+05	4,0E+01	9,0E+05	100,0
	Steel	2,0E+06	1,6E+03	2,0E+06	99,9	1,1E+06	1,2E+02	1,1E+06	100,0
K.pneumoniae	Plastic	5,2E+05	1,4E+03	5,2E+05	99,7	2,7E+06	3,6E+03	2,7E+06	99,9
	Glass	2,0E+05	2,0E+03	2,0E+05	99,0	2,2E+06	1,0E+03	2,2E+06	100,0
	Steel	3,2E+05	3,4E+03	3,2E+05	99,0	2,0E+06	9,2E+02	2,0E+06	100,0
A.baumannii	Plastic	6,4E+05	2,8E+04	6,1E+05	95,6	8,2E+05	1,4E+04	8,1E+05	98,3
	Glass	2,2E+06	2,0E+04	2,2E+06	99,1	1,2E+06	8,1E+03	1,2E+06	99,3
	Steel	1,2E+06	1,5E+04	1,2E+06	98,8	5,2E+05	1,1E+04	5,1E+05	97,9
E.cloacae	Plastic	2,5E+06	1,0E+05	2,4E+06	95,9	2,5E+06	6,6E+03	2,5E+06	99,7
	Glass	3,3E+06	1,7E+03	3,3E+06	99,9	3,0E+06	2,6E+03	3,0E+06	99,9
	Steel	3,1E+06	4,1E+04	3,1E+06	98,7	2,3E+06	7,3E+03	2,3E+06	99,7
E.faecalis	Plastic	1,6E+06	1,1E+05	1,5E+06	92,9	9,0E+05	1,0E+05	8,0E+05	88,7
	Glass	2,0E+06	5,9E+04	1,9E+06	97,0	1,2E+06	6,0E+04	1,1E+06	95,0
	Steel	7,4E+05	3,4E+04	7,1E+05	95,3	1,4E+06	4,8E+04	1,4E+06	96,6
P.aeruginosa	Plastic	1,2E+06	1,0E+03	1,2E+06	99,9	1,9E+06	0,0E+00	1,9E+06	100,0
	Glass	1,7E+06	4,0E+01	1,7E+06	100,0	2,1E+06	8,0E+01	2,1E+06	100,0
	Steel	1,2E+06	0,0E+00	1,2E+06	100,0	2,4E+06	3,2E+02	2,4E+06	100,0

Reduction to specific carriers for individual strains.

Performance OCTA-UV Multisystem on ESKAPE GROUP

Implementation in hospitals

Our innovative OCTA-UV Multisystem solution has revolutionized the fight against hospital-acquired infections, enabling healthcare professionals to provide patients with the highest level of care. We conducted technological pilots in over 50 hospitals, gathering first-hand information to ensure that our products are tailored to the needs of healthcare facilities.

Awards and Recognitions

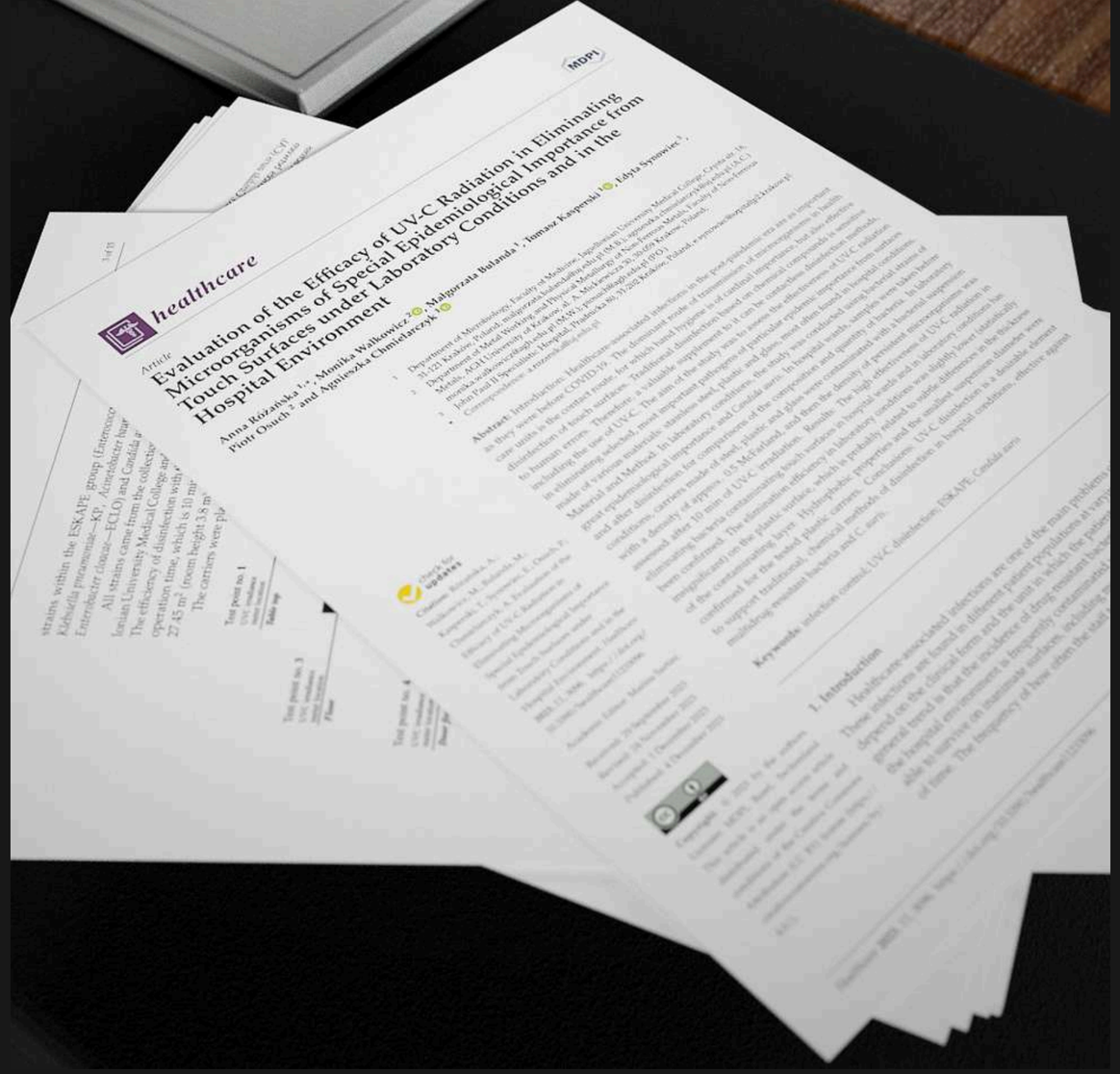
Eco Light
BIOSAFETY

ECO LIGHT BIOSAFETY'S COMMITMENT TO EXCELLENCE IN UV-C DISINFECTION IS CONSISTENTLY AFFIRMED BY PRESTIGIOUS INDUSTRY AWARDS AND RECOGNITIONS. OUR STATE-OF-THE-ART TECHNOLOGY AND DEDICATION TO CREATING SAFER ENVIRONMENTS HAVE EARNED US ACCLAIM, CONFIRMING OUR POSITION AS A LEADER IN THE FIELD.

Dominik Ściepko
CEO | New Product Development

Gold Innovation Laurel

Octa-UV Multisystem has been honored with the prestigious **Golden Innovation Laurel 2022/2023** award in the category of 'Medical Technology, Pharmaceutical Industry, and Chemistry' during the ceremonial Gala of the 12th edition of the 'Innovation Laureate' competition named after Stanisław Staszic, organized by the Federation of Scientific and Technical Associations NOT in Warsaw.



Scientific publication

The OCTA UV Multisystem devices have undergone independent laboratory tests conducted by Jagiellonian University, a prestigious institution with a 650-year history. The research team was so impressed with the results that Professor Różańska presented the product at the Polish Epidemiologists Congress in Warsaw, leading to the publication of a dedicated scientific article. This endorsement underscores the credibility and effectiveness of our UV Multisystem, emphasizing its significance in the fields of epidemiology and healthcare.

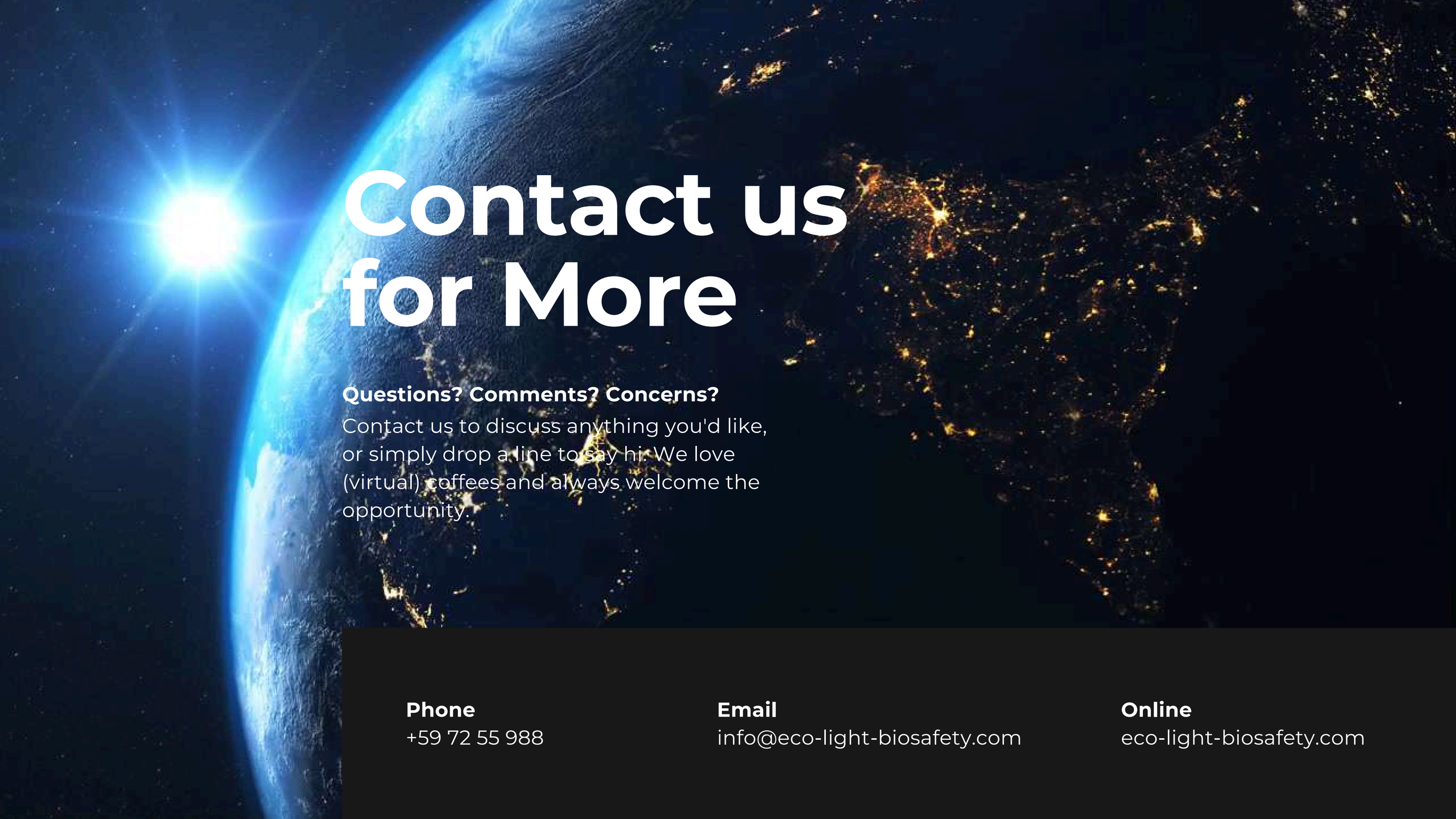
RESEARCH TEAM OF THE DEPARTMENT OF MICROLOGY, UJ - CM

(from the left: Dr. Agnieszka Chmielarczyk, Prof. Małgorzata Bulanda, Ph.D., Prof. UJ Anna Różańska).

Enviromental Responsibility

Sustainability is part of our purpose

In our commitment to supporting sustainable development, we strategically align and synergize our triple focus on the economic, environmental, and social dimensions of the institution.



Contact us for More

Questions? Comments? Concerns?
Contact us to discuss anything you'd like, or simply drop a line to say hi. We love (virtual) coffees and always welcome the opportunity.

Phone
+59 72 55 988

Email
info@eco-light-biosafety.com

Online
eco-light-biosafety.com