

# BioLume

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## BioLume To Develop And Commercialize Bioluminescent Proteins

*Natural Proteins that **Produce Light** will be developed for the Food, Beverage, Cosmetic, and Diagnostic Imaging Markets Worldwide*

Research Triangle Park, NC - BioLume, Inc. (BioLume®) announced it has been assigned or exclusively licensed the rights to more than forty (40) U.S. and foreign patents covering natural bioluminescent proteins and related substrates from Prolume, Ltd (Prolume). These patents include both compositions of matter and methods of use claims. BioLume's exclusive field of use covers diagnostic imaging, and all food, beverage, cosmetic applications. BioLume's mission is to develop and commercialize this portfolio of proprietary bioluminescent (**light producing**) proteins, and related technology.

Bioluminescence is **light** produced by a chemical reaction within a living organism. Unlike fluorescence, bioluminescence **does not** require energy from another source of light to create illumination. As a result, bioluminescence has a much greater range of uses than fluorescence. Bioluminescence is **not** radioactive.

“BioLume is developing new applications of a commercial technology routinely used in other life science areas,” said Terry E. Willard, President and CEO of BioLume. “This alleviates the time, cost and risk of research, and shortens time to market.”

Prolume owns the world's largest collection of genetic cDNA libraries cloned from bioluminescent deep-sea marine organisms that create their own light. Prolume's bioluminescent proteins are all natural chemistry that are prominent in the ocean's food chain, and thus, routinely consumed by man in many species of fish. Many of these same bioluminescent proteins have broad, well-

established applications in biomedical research and drug discovery, and are currently used by many of the largest pharmaceutical companies in the world. Prolume holds exceptionally broad, worldwide patents covering the use of any bioluminescent proteins within its proprietary uses.

The consumer markets covered within BioLume's exclusive field of use are very large and growing. The broad and diverse consumer applications within foods, beverages, and cosmetics represent huge first-in-class product opportunities. There are no edible bioluminescent products on the market today. BioLume has trademarked the brand name *Lumonesc*<sup>TM</sup> for the combination of chemistry that produce the bright, **luminescent glow**. BioLume has already conducted preliminary safety testing of *Lumonesc* in various animal models.

Biolume's bioluminescent proteins have broad application in diagnostic imaging as a non-radioactive contrast agent. These include molecular imaging which represents a paradigm shift in the focus of medical imaging from the visualization of anatomy and physiology to the study of metabolic and physiological processes, such as cancers, often in real time. This allows for early diagnosis of disease even before there are symptoms or anatomic masses such as tumors. Plus, molecular imaging can be used to monitor disease progression and the efficacy of drug therapy non-invasively. Another example of so called bioluminescent imaging (BLI) is vascular imaging as an alternative to fluoroscopy in many applications, including surgery. There are many published articles on the subject, many using BioLume's proprietary technology, demonstrating BLI research interest. BioLume has trademarked the brand name *TumorLight*<sup>TM</sup> for the diagnostic imaging applications.

BioLume plans to partner certain consumer applications of its technology based on segmentation of the food, beverage, and cosmetic markets, both domestically and internationally. A number of product prototypes have already been developed for illustration purposes. In parallel, BioLume will complete the safety testing necessary for a Food and Drug Administration petition as a food additive. BioLume may reserve one or more consumer segments for its own commercial interests.

Diagnostic imaging development will be pursued either internally or through a grant from the National Cancer Institute for pre-clinical testing. BioLume is currently testing its bioluminescent technology for various imaging applications in animal models.

BioLume is currently seeking funding from strategic partners and/or investors to finance the regulatory approval, manufacturing scale up, and commercialization of these proprietary bioluminescent proteins for the consumer and imaging applications.

## About BioLume, Inc.

BioLume® is a private biotechnology company located in Research Triangle Park, NC. Our mission is to develop and commercialize a portfolio of proprietary bioluminescent (light producing) proteins and related substrates with many first-in-class applications in the food, beverage, cosmetic, and diagnostic imaging markets. BioLume is guided by successful, serial entrepreneurs from the biotechnology industry. Visit BioLume's website at **www.biolume.net**.

For more information, please email requests to **contact@biolume.net**.

## Forward-Looking Statements

Any statements that are not based on historical fact are forward-looking statements. Although such statements are based on management's current estimates and expectations, and currently available plans, testing, competitive, financial, and economic data, forward-looking statements are inherently uncertain. We, therefore, caution the reader that there are a variety of factors that could cause business conditions and results to differ materially from what is contained in our forward-looking statements.

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