Human DNA contains about 20,000 genes that code for as many different proteins, each one having a very specific role in the functioning of the human body. Over the last 50 years researchers have realized that in many cases the biologically active ingredients of natural extracts used in cosmetic applications are actually short fragments of proteins called peptides. Since the biologically active peptides in natural extracts are mixed with many other unknown and potentially unsafe ingredients, the main goal of this new field has been to identify and characterize these peptides in order to produce them in larger quantities and apply them in a safe and predictable manner.

Over the last decade, this emerging new field of cosmetic industry has led to many beneficial and successful top-tier products and applications. Bioactive cosmetic peptides such as Argireline™ and Dermican™ have proven safe and effective in skin rejuvenation, and have been incorporated in numerous successful products used by millions of customers around the world. The research efforts in the field are marching forward, and an increasing number of new cosmetic peptides are now coming to market.

“One of the main challenges in this field lies in inherent complexity of the peptide production process that requires large facilities using expensive raw materials and vast quantities of organic solvents”, says Mr. ANDREW CARRUTH, a production manager of the new company Avantgarde Molecular LLC. “Our company has pulled together a group of top-notch scientists from Boston, Massachusetts to develop a proprietary method and unique instrumentation to achieve a highly efficient production of peptides at extremely competitive cost”, says Mr. CARRUTH.

Avantgarde Molecular is currently supplying some of the world’s largest cosmetic companies with kilograms of peptides at superior quality and lower price than any competitor in the market. Following the successful initial technology development phase, Avantgarde Molecular production facilities are now undergoing expansion, ready to accept new customers.

About Avantgarde Molecular
Avantgarde Molecular LLC headquarters is located in one of the most scenic parts of Massachusetts, about 20 min. drive from Boston. This location has enabled AM to establish productive R&D collaborations with nearby universities such as MIT, Harvard and Boston University. Company aims to have a truly global reach. Avantgarde Molecular customers and partners are some of world’s biggest chemical and pharmaceutical companies located in Europe, North America and Asia.

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