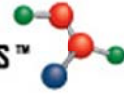




INSPIRED MOLECULAR SOLUTIONS™



Kemin's "Molecular Farming" Initiative

Kemin's commitment to "developing technology at the molecular level" is rapidly expanding in the exciting new area of "molecular farming" through the specialty crop improvement (SCI) program. Kemin's worldwide Specialty Crops team, located in the United States, China and India, is composed of plant biologists, plant breeders, agronomists and analytical chemists, all focused on selecting plants as sustainable sources of novel, highly efficacious molecules with antioxidant and antimicrobial activities.

Ideas come from many sources to begin new projects. The breeding and selection team creates new genetic plant variations; the biochemical screening team measures variation; the research agronomy team takes new clonal lines and tests them for their ability to be grown as commercial specialty crops; and the field agronomy team manages the crops to commercial scale up production. Current species include rosemary, spearmint, oregano, marigold, potato, and sage with several others in development – all specifically for producing key target molecules via extraction to develop formulations for a variety of different applications.

Over 20,000 sq ft of greenhouse facilities are located in Des Moines, Iowa and Hereford, Texas, along with 20 acres of experimental field plots. In addition, the specialty crops team partners with contract propagators operating more than 30,000 sq ft of greenhouse space for propagation scale-up in Texas, New Mexico and Iowa, in order to supply contract growers with plants for transplanting. Millions of genetically identical, vegetatively reproduced plants are grown over winter for spring and fall planting at grower locations. All of the propagation is handled through a conventional, non-GMO plant breeding plan.

The breeding program is supported by an exceptional collection of plants, such as 850 unique accessions of rosemary; over 500 species of spearmint; and a global network of research partners. The SCI team is responsible for thousands of commercial acres of various specialty crops that will "keep your food looking great, tasting delicious, safe, and fresh longer" – naturally and sustainably.