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Israeli start-up develops new bioactive ingredient for medical food space

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Jerusalem headquartered, Israeli BioFoodTech start-up EXOSOMM, Ltd., has explored the natural mechanisms inherent in human breastmilk to create a novel bioactive ingredient that can potentially support millions of adults with inflammatory disorders. Based on its scientific findings EXOSOMM developed an innovative technology that isolates exosomesâ??natural particles in maternal milk that play an important role in the healthy development of the immune system.

EXOSOMM upcycles byproducts of the traditional cheese making process to create this potent functional ingredient. While still a young start-up, it has already reached commercial production capacity of its patent-protected exosomes for the medical food space.

â??Exosommâ??s technology is based on cutting-edge scientific discoveries and is inspired by the virtues of motherâ??s milk and its unique health properties,â?• enthuses Reif. â??We believe adults, can benefit from exosomes as a valuable nutrient to help better manage chronic metabolic inflammatory disorders and to boost overall well-being. Further clinical research is in the pipeline, and we currently are focusing our studies on the role of exosomes in managing IBD conditions, such as Crohnâ??s and Colitis.â?•

Maternal milk is recognized as the key vital resource for infants to provide them with the essential elementary nutrients needed to promote optimal growth and wellbeing. It has been linked to protection against various diseases, such as infections, inflammation, and obesity, and plays a crucial role in developing the immune system. Scientific inquiry attributes these

benefits predominantly to the presence of exosomes.

Exosomes are small nanoparticles produced by the bodyâ??s cells that naturally accumulate at high concentrations in motherâ??s milk. They contain beneficial microRNAs: small, single-stranded, non-coding RNA molecules shown in studies to have a significant impact on early child development and also on the infantâ??s future health. The Exosomm research team were astonished to find that different mammals (human, cow, or sheep) share similar exosome composition, indicating the evolutionary importance of exosomes in offspring.