Addressing the future energy and climate concerns will require a diverse set of solutions to meet the increasing demand for energy in a sustainable way. Producing biofuels from microalgae is one of the most promising paths towards a sustainable future by providing clean energy source with carbon capture ability. Microalgae as the third generation feedstock for biofuels have advantages of high growth rate, reduced land-use and has no direct competition with food. However, despite these advantages biofuel production from microalgae still faces serious challenges in strain selection, mass cultivation, downstream processing, and conversion. Most importantly, the majority of current technologies for microalgae biofuel processing were adopted from conventional techniques for terrestrial plants and not optimized for microalgae which resulted in high cost and low efficiency. In order to overcome the economic barrier to compete with fossil fuels, more efforts are needed in the technology development and research.

Iconthin Biotech is dedicated to the development of sustainable and innovative biotechnology associated with microalgae products. With our world-class microfluidic platform and leading technologies, we are able to economically produce high-value products at industrial scale. Through the research and development, production and commercialization of microalgal high-value products, we can accumulate rich experience and solid techniques for future applications without increasing the financial burden for the government. We believe our continuous work on the development of biotechnology will bring us a better world with sustainable future.