

and biotechnology companies, as well as government agencies and leading hospitals and academic institutions throughout the world in order to bring drugs to market faster and more efficiently. The partnership would entail providing for both companies' customers base the surgical services from Charles River and the innovative FluidSync drug pump for scientific and preclinical research. Customers can now order the pumps directly from Fluid Synchrony or order from Charles River animals that have been preimplanted with one FluidSync pump and arrive experiment-ready. The incentive for these providers is the added sales of their animal products through a bundled product offering animal + pump. The cross promotion provides an opportunity for Fluid Synchrony LLC to leverage existing sales and distribution channels as well as funnel customers to its direct sales channel.

We have also initiated discussions with SAI Infusion Technologies, who is an established worldwide distributor for implantable catheters, animal surgery tools, and infusion kits, to partner with them to sell and distribute our FluidSync microspump system. We also initiated discussions with Nidhis Information Technologies to bundle our pump with their wireless physiological monitoring products for socially housed small animals. These potential industrial partnerships are dependent and enabled on the successful completion of this Phase I proposal.

This technical innovation will lay a solid foundation for the Phase II effort which will result in a complete FluidSync pump prototype. In Phase II, we will fabricate the FluidSync pump prototype and perform product validation testing such as leachables and extractables study (NAMS), biocompatibility study (Charles River), and *in vivo* pharmacokinetic studies *in mouse* (SAI Infusion Technologies).

5 CONSULTANTS AND SUBAWARDS/SUBCONTRACTS

Fluid Synchrony LLC will be supported by three consultants for this Phase I effort. Mr. Raymond Peck brings over 20 years of experience in medical device development and will design and machine the housing. Mr. Richard Castro has over 10 years of experience in development of wireless systems for implantable devices and will develop of the wireless power and telemetry systems. Dr. Carol Christopher brings over 20 years of experience in the drug delivery industry and serves as the business development specialist.

6 PROPOSALS TO OTHER FEDERAL AGENCIES

Fluid Synchrony LLC has no related awards at this time; this is a revised SBIR resubmission for the company. Future submissions are planned to National Institutes of Health SBIR programs. The objectives of future submissions will not overlap with the work plan proposed here.