



Entrepreneurial Initiatives

The BIOMED faculty and students have launched biomedical technology start-ups at an unprecedented pace to commercialize technologies under development in our laboratories. The list includes:

BioSensus – Development of a hand-held nanoacoustic blood analyzer to monitor blood coagulation, clotting times, and platelet function. Principals: Drs. Ryszard Lec, BIOMED, Yasha Kresh, DUCOM Cardiothoracic Surgery, David Wooton, MEM.

Magnetic BioSystems – Development of magnetic stent for concentrated therapeutic drug delivery for coronary patients.

Principals: Zach Forbes, BIOMED graduate student, Ben Yellen, ECE graduate student; Faculty Advisors: Drs. Ken Barbee, BIOMED and Gary Friedman, ECE.

PiRho Software – Development of software that allows patients in ambulances to be monitored remotely from the emergency room.

Principals: Joshua Carney, BIOMED graduate, Chris Sherman, CS graduate; Faculty Advisors: Drs. Werner Krandick, CS, Han Ryoo, BIOMED, and Neal Handy, DUCOM Emergency Medicine.

InfraScan – Development of a hand-held optical brain imager to detect brain hematoma on-site. Principals: Drs. Baruch Ben Dor, BIOMED and NIM Inc, Britton Chance, U Penn, Banu Onaral, BIOMED, Hasan Ayaz, BIOMED graduate student, and Kurtulus Izzetoglu, BIOMED graduate student.

NIRScan – Development of a hand-held optical scanner for early detection of breast cancer; intended as a personal health care device. Principals: Drs. Britton Chance, U Penn, Banu Onaral, BIOMED, Kambiz Pourrezaei, BIOMED, and Michael Herr, Entrepreneur-in-Residence.

More in the Pipeline...

Other entrepreneurial projects in the biomedical technology pipeline include development of injectable targeted contrast agents for diagnostic ultrasound (Focus Therapeutics; Dr. Margaret Wheatley), soy-protein based tissue scaffolds (Dr. Peter Lelkes), nanotechnology applications in life sciences (Bio-Nanotech Corp; Dr. Kambiz Pourrezaei), bio-nanotechnology applications in skin research (Dr. Elizabeth Papazoglou), pediatric technologies (RheoMedix; Dr. Dov Jaron; Blue LED Suit; Arye Rosen), biomedical signal processing software for functional near-infrared imaging (NIRSoft; Kurtulus Izzetoglu, BIOMED graduate student; Hasan Ayaz, BIOMED graduate student).

Date: Summer 2004