

**Master List of Applications**  
**CHEMISTRY/BIOPHYSICS SBIR/STTR**  
**2006/05 Council ZRG1 BCMB-M 10 B, 03/02/2006, Vonda Smith, SRA**

Application	PI Name	Project Title	Institution Name	RFA/PA
2 R44 ES012517-02A1(eApp)	GONZALEZ-MARTIN, ANUNCIA	A Novel Nanocomposite Photocatalyst for Water Treatment	LYNNTECH, INC.	PA06-006
1 R43 RR022674-01A1(eApp)	NAGARKAR, VIVEK V	High Sensitivity Large Area Detector for Time Resolved X-ray Diffraction Studies	RADIATION MONITORING DEVICES, INC.	PA06-006
1 R43 RR022463-01A1(eApp)	Shestakova, Irina	High Spatial Resolution Structured Plastic Scintillator	RADIATION MONITORING DEVICES, INC.	PA06-006
2 R44 RR016159-02A2(eApp)	VENKATASUBBARAO, SRIVATSA V	Biogratings for Combinatorial Library Characterization	INTELLIGENT OPTICAL SYSTEMS, INC.	PA06-006
1 R41 GM078960-01(eApp)	NAMJOU, KHOSROW	Specific detection of nitric oxide and nitroxyl using a mid-infrared laser	EKIPS TECHNOLOGIES, INC.	PA06-007
2 R44 RR018439-02(eApp)	Gillispie, Gregory David	Tunable Source for Protein Fluorescence Lifetime Studies	DAKOTA TECHNOLOGIES, INC.	PA06-006
1 R43 EH000127-01(eApp)	Lu, Wen	Online Monitor for Arsenic in Drinking Water	ADA TECHNOLOGIES, INC.	PA06-006
1 R43 GM079068-01(eApp)	PENN, SHARRON Gaynor	SERS based Nanoscale Homogeneous Assay Platform for Clinical Proteomics	NANOPLEX TECHNOLOGIES, INC.	PA06-006
1 R44 ES014979-01(eApp)	Shirazi, Fatemeh R	Advanced Biotechnology for Destruction of Perchlorate in Drinking Water	MICROVI BIOTECH, LLC	PA06-006
1 R43 EB006210-01A1(eApp)	* DORRI, FARHAD	Novel Technique for In-situ Nonintrusive Characterizations of Flowing/Suspended N	MICROVI BIOTECH, LLC	PA06-009
1 R41 EB005885-01A1(eApp)	KOLLER, MANFRED R	Cloning of FRET nanosensor-expressing cells for high-content drug discovery	CYNTELLECT, INC.	PA06-007
1 R43 GM079000-01(eApp)	MANDECKI, WLODEK	Single Molecule-based Expression Profiling on Silver Nanostructures	PHARMASEQ, INC.	PA06-009
2 R44 GM072155-02(eApp)	PAMULA, VAMSEE K	Nanoliter Lab-on-a-chip for Protein Crystallization	ADVANCED LIQUID LOGIC	PA06-006
1 R41 RR023214-01(eApp)	COOPERMAN, BARRY S.	Real-time Protein Identification In a Fluorescent Translation System	ANIMA CELL METROLOGY, INC.	PA06-007
1 R43 GM074439-01A2(eApp)	* Qian, Qing	A High-Efficiency High-Energy-Resolution X-ray Fluorescence Detector	NJ-XRSTECH COMPANY	PA06-006
2 R44 CA111752-02A1(eApp)	PENN, SHARRON GAYNOR	Application of SERS nanotags to multiplexed biodetection inside living cells	NANOPLEX TECHNOLOGIES, INC.	PA06-009
1 R41 GM079028-01(eApp)	Bastiaans, Glenn	SERS-Chip: Nanoparticle-based Detection of Protein/DNA Interactions	INTELLIGENT OPTICAL SYSTEMS, INC.	PA06-008
1 R44 RR023221-01(eApp)	Wang, Houle	Linear Ion Trap-Time of Flight Two Dimensional Mass Spectrometer	MICHROM BIORESOURCES, INC.	PA06-006
1 R43 EB006683-01(eApp)	Dolnik, Vladislav	Trace and ultratrace bioanalysis by multicolumn isotachopheresis on a microchip	ALCOR BIOSEPARATIONS	PA06-006

\* Denotes New investigator.

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1 R41 ES014728-01A1(eApp)	GAWLEY, ROBERT E.	Sensor for Paralytic Shellfish Poisons	WHITE RIVER BIOSCIENCE, INC.	PA06-007
1 R43 HL086200-01(eApp)	Drukier, Andrzej	Diagnostic methods for mice and rats	BIOTRACES, INC.	PA06-006
2 R44 RR019101-02A1(eApp)	BARNES, RHETT JAMES	A High-Repetition-Rate IR Laser for Mass Spectrometry	OPOTEK, INC.	PA06-006
1 R43 DK075185-01A1(eApp)	WANG, YUNJUN	Glucose binding protein-quantum dot conjugates	MESOLIGHT, LLC	PA06-006
1 R44 GM079022-01(eApp)	Blatz, Andrew	Optical Methods For Ion Channel Drug Discovery	BLATZ SCIENTIFIC	PA06-006
1 R43 GM079003-01(eApp)	HOM, LOUIS	Self-Assembling Scaffolds for High Throughput Membrane Protein Crystallography	AGAVE BIOSYSTEMS	PA06-006
1 R43 DK076486-01(eApp)	* TEMPEZ, AGNES L	Orthogonal Ion Mobility for Metabolomics	IONWERKS, INC.	PA06-023
1 R43 RR022464-01A1(eApp)	Berkout, Vadym	AP-MALDI oaTOF mass spectrometer with increased sensitivity	SCIENCE AND ENGINEERING SERVICES, INC.	PA06-006
1 R43 RR023224-01(eApp)	* Vilkov, Andrey	Electron-transfer dissociation tandem mass spectrometry	SCIENCE AND ENGINEERING SERVICES, INC.	PA06-006
1 R43 GM076811-01A1(eApp)	* MCPIKE, MARK P	Microarray chips for rapid detection of high affinity nucleic acid sequences	ORTHOSYSTEMS, INC.	PA06-006
1 R43 AG029086-01(eApp)	* Reich, Alton	Breath Ammonia and Clinical Aging Research	STREAMLINE AUTOMATION, LLC	PA06-006
1 R44 DK076509-01(eApp)	Webster, Jeanette Irene	A multiplex assay for detecting nuclear hormone receptor-coregulator interactions	PROTEINONE, INC.	PA06-006
1 R43 RR023225-01(eApp)	* Cicha, Walter	Rapid, Native State, 3-D Structural and Chemical Analysis of Biological Samples U	CARBON NANOPROBES, INC	PA06-009
1 R43 DK076479-01(eApp)	* Clendenning, James Bruce	Enhanced Glucose Testing by Robust Oriented Enzyme Attachment to Electrodes	BIOHESION, INC.	PA06-006
2 R44 AI063651-02(eApp)	* Niederkofler, Eric E	Mass Spectrometry Assays for Biodefense	INTRINSIC BIOPROBES, INC.	PA06-006
1 R43 ES014553-01A1(eApp)	* JAMES, WILLIAM M	Detection of Hair Follicles of Biomarkers of Exposure to Chemical Weapons	20/20 GENESYSTEMS, INC.	PA06-006
1 R43 GM079054-01(eApp)	* ROY, SWAPAN K	New Methods For Proteomic and Glycomic Molecular Signatures	PROFACT PROTEOMICS	PA06-006
1 R43 EB006725-01A1(eApp)	* DIDENKO, VLADIMIR V	Fluorescent Molecular Oscillator for DNA Damage Detection	VIVID TECHNOLOGIES	PA06-009
2 R42 GM071326-02A1(eApp)	MAY, ANDREW PAUL	Diffraction From Microvolume Topaz Microprocessors	FLUIDIGM CORPORATION	PA06-007
1 R41 ES015087-01(eApp)	Gerlach, Robin	Lowering DNAPL Remediation Costs and Human Health Risk by Optimizing Biotic and A	CENTER FOR INNOVATION, INC.	PA06-007
1 R43 GM076751-01A1(eApp)	Saltiel, Craig	Non-invasive Optical Characterization of Interfaces and Biomembranes	SCATTERING SOLUTIONS, LLC	PA06-006

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Application	PI Name	Project Title	Institution Name	RFA/PA
1 R44 GM079057-01(eApp)	VESTAL, MARVIN L	MALDI-TOF and TOF-TOF for Global Analyses of Biological Samples	VIRGIN INSTRUMENTS CORPORATION	PA06-006
1 R44 RR023234-01(eApp)	VESTAL, MARVIN L	Interfacing Separations with MALDI-TOF Mass Spectrometry	VIRGIN INSTRUMENTS CORPORATION	PA06-006
1 R43 HL086303-01(eApp)	Valentine, Stephen J.	A Targeted/Measurement/Informatics Approach for Plasma Proteome Profiling	PREDICTIVE PHYSIOLOGY AND MEDICINE, INC.	PA06-006
1 R41 DA022111-01(eApp)	* Hannigan, Robyn	Rapid detection of smoked drug residues in biological fluids	HYPHENATED SOLUTIONS	PA06-007
2 R44 RR020238-02A1(eApp)	UGAROV, MICHAEL	Infrared Laser Desorption Ion Mobility Mass Spectrometer	IONWERKS, INC.	PA06-006
1 R41 ES015092-01(eApp)	Sarkar, Dibyendu	Novel Remediation Method to Reduce Health Risk from Perchlorate in Drinking Water	AGEISS ENVIRONMENTAL, INC.	PA06-007
1 R43 GM079071-01(eApp)	LIM, YOW-PIN	Bioprocessing of Plasma Proteins using Sequential Affinity Monolithic Technology	PROTHERA BIOLOGICS, LLC	PA06-013

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