



**SUMMARY OF  
NIH BIOENGINEERING NANOTECHNOLOGY  
INITIATIVE (SBIR)  
FOR PROGRAM ANNOUNCEMENT PA-00-018**



The following text provides a summary of grants from BECON member institutes and centers for NIH Bioengineering Nanotechnology Initiative (SBIR) in response to program announcement PA-00-018 (December 2, 1999). The objective of this program is to encourage collaborative research in nanotechnologies useful to biomedicine.

Funded grants are listed below in alphabetical order by the principal investigator's (PI's) last name. Other information provided for each grant includes PI affiliation, grant title, application number, funding organization, and a brief summary of the project. Please visit <http://crisp.cit.nih.gov/> for additional information about funded grants, including project abstracts.

1. **PRINCIPAL INVESTIGATOR: BOLSKAR, ROBERT D**  
**AFFILIATION:** TDA RESEARCH, INC.  
**PROJECT TITLE:** DEVELOPMENT OF CARBON NANOENCAPSULATES FOR BIOMEDICINE  
**GRANT NUMBER:** 1-R43-CA-90096-1-A1
  
2. **PRINCIPAL INVESTIGATOR: BRAHMASANDRA, SUNDARESH**  
**AFFILIATION:** HANDYLAB, INC.  
**PROJECT TITLE:** NANOLITER DEVICE FOR HEPATITIS C DETECTION  
**GRANT NUMBER:** 1-R43-AI-51919-1-
  
3. **PRINCIPAL INVESTIGATOR: EVANS, GLEN A**  
**AFFILIATION:** EGEA BIOSCIENCES, INC.  
**PROJECT TITLE:** BIOLOGICAL NANOSTRUCTURES AND NANO-NETWORKS  
**GRANT NUMBER:** 5-R43-GM-62699-2-
  
4. **PRINCIPAL INVESTIGATOR: GATEWOOD, JOE M**  
**AFFILIATION:** SEIRAD, INC.  
**PROJECT TITLE:** NANOTECHNOLOGY-BASED DNA SEQUENCING INSTRUMENTATION  
**GRANT NUMBER:** 1-R43-ES-10920-1-A1
  
5. **PRINCIPAL INVESTIGATOR: HENDERSON, ERIC R**  
**AFFILIATION:** BIOFORCE LABORATORY  
**PROJECT TITLE:** BIOENGINEERING NANOTECHNOLOGY INITIATIVE  
**GRANT NUMBER:** 2-R44-RR-15120-2-
  
6. **PRINCIPAL INVESTIGATOR: HYMAN, PAUL L**  
**AFFILIATION:** NANO FRAMES  
**PROJECT TITLE:** STAGED SELF-ASSEMBLY OF FUNCTIONAL NANOSTRUCTURES  
**GRANT NUMBER:** 1-R43-GM-63467-1-
  
7. **PRINCIPAL INVESTIGATOR: LARTIUS, RAJ K**  
**AFFILIATION:** NOVASCAN TECHNOLOGIES  
**PROJECT TITLE:** SENSITIVE HIGH SPEED AFM PROBES FOR BIOLOGY  
**GRANT NUMBER:** 1-R43-RR-16377-1-A1
  
8. **PRINCIPAL INVESTIGATOR: MAKRIDES, SAVVAS C**  
**AFFILIATION:** EIC LABORATORIES, INC.  
**PROJECT TITLE:** SYNTHETIC NANOSTRUCTURES FOR SINGLE MOLECULE SEQUENCING

**GRANT NUMBER:** 5-R41-HG-2342-2-

9. **PRINCIPAL INVESTIGATOR:** **OSTERMAN, DAVID P**  
**AFFILIATION:** HYPRES, INC.  
**PROJECT TITLE:** MICROMACHINED BIOCALORIMETER WITH PICOJoule SENSITIVITY  
**GRANT NUMBER:** 1-R43-RR-16157-1-
  
10. **PRINCIPAL INVESTIGATOR:** **PATTANAİK, ASİMA**  
**AFFILIATION:** BIOELASTICS RESEARCH, LTD.  
**PROJECT TITLE:** BIOELASTIC NANOPARTICLES FOR DELIVERY OF VACCINES  
**GRANT NUMBER:** 1-R43-AI-49005-1-A1
  
11. **PRINCIPAL INVESTIGATOR:** **TURNER, STEPHEN W**  
**AFFILIATION:** NANOFUIDICS, INC.  
**PROJECT TITLE:** NANOFUIDICS-BASED DNA SCREENING DEVICE  
**GRANT NUMBER:** 1-R43-HG-2548-1-
  
12. **PRINCIPAL INVESTIGATOR:** **WILLIAMS, JOHN G**  
**AFFILIATION:** LI-COR, INC.  
**PROJECT TITLE:** A SYNTHETIC APPROACH TO SINGLE MOLECULE DNA SEQUENCING  
**GRANT NUMBER:** 3-R44-HG-2066-3-S1
  
13. **PRINCIPAL INVESTIGATOR:** **WILLIAMS, JOHN G**  
**AFFILIATION:** LI-COR, INC.  
**PROJECT TITLE:** A SYNTHETIC APPROACH TO SINGLE MOLECULE DNA SEQUENCING  
**GRANT NUMBER:** 5-R44-HG-2066-3-