

Appendix - Synthetic Biology Research Projects/Programs by Agency

Agency	Project ID	Project Title	Funding Level	Fiscal Year
DOE	http://arpa-e.energy.gov/?q=slick-sheet-project/ethylene-butanol	Synthetic Biology, Protein Engineering, and Semi-Biological Photocatalysis to Convert Methane to N-Butanol	\$1,500,000	2014
DOE	http://arpa-e.energy.gov/?q=slick-sheet-project/methanol-liquid-fuel	Synthetic Methylo trophy to Liquid Fuel	\$4,500,000	2014
DOE	http://arpa-e.energy.gov/?q=slick-sheet-project/more-options-bioenergy-crops	Synthetic Gene Circuits to Enhance Production of Transgenic Bioenergy Crops	\$1,577,000	2013
DOE	http://arpa-e.energy.gov/?q=slick-sheet-project/methane-methanol	Anaerobic Bioconversion of Methane to Methanol	\$3,000,000	2014
NASA	NNX13AI31A	RECOVERY OF RESOURCES IS CRITICAL FOR REDUCING UP-MASS AND FACILITATING LONG-DURATION AND SELF-SUSTAINING NASA MISSIONS. THE ABILITY TO PROVIDE VITAL LIFE SUPPORT, HIGH-VALUE PRODUCTS, AND TO APPROACH ENERGY SELF-SUFFICIENCY IS KEY TO ADDRESSING THESE NEE	\$340,000	2013

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NASA	NNX11AN39H	PROPOSAL TO FUND RESEARCH INTO THE DESIGN OF A CELLULAR SYSTEM SUITABLE FOR RESOURCE UTILIZATION ON EXTRATERRESTRIAL PLANETARY SURFACES USING SYNTHETIC BIOLOGY.	\$62,500	2011
NASA	NNX14AM51H	UTILIZING RECENT ADVANCES IN DNA NANOTECHNOLOGY AND SYNTHETIC BIOLOGY, THE BIOWIRES PROJECT SEEKS TO SOLVE A FUNDAMENTAL PARADOX IN CURRENT DEPLOYMENT OF SPACE NANOTECHNOLOGY: REQUIRING POWERFUL ELECTRON BEAMS AND BULKY MACHINES, NANOSCALE ENGINEERING IS	\$66,750	2014
NIFA	2011-68005-30409	2011 PLANT METABOLIC ENGINEERING GRC/GRS	\$20,000	2010
NIH	5R21GM104694-03	A DIGITAL MICROFLUIDIC SYSTEMS FOR GENE SYNTHESIS, SEQUENCING AND RECOVERY	\$228,170	2014
NIH	5R21GM104694-02	A DIGITAL MICROFLUIDIC SYSTEMS FOR GENE SYNTHESIS, SEQUENCING AND RECOVERY	\$220,183	2013
NIH	1R21GM104694-01	A DIGITAL MICROFLUIDIC SYSTEMS FOR GENE SYNTHESIS, SEQUENCING AND RECOVERY	\$248,770	2012

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NIH	1R13AR062486-01	ASGSB/ISGP 2011 JOINT MEETING	\$10,000	2011
NIH	5R01GM109460-02	MATHEMATICS AND SYNTHESIS OF A CONTACT-MEDIATED MULTICELLULAR PATTERNING SYSTEM	\$274,929	2014
NIH	1R01GM109460-01	MATHEMATICS AND SYNTHESIS OF A CONTACT-MEDIATED MULTICELLULAR PATTERNING SYSTEM	\$275,000	2013
NIH	5R01NS073124-06	GENOME-WIDE LIGHT-INDUCIBLE TUNING OF TRANSCRIPTIONAL NETWORK DYNAMIC	\$640,303	2014
NIH	5R01NS073124-05	GENOME-WIDE LIGHT-INDUCIBLE TUNING OF TRANSCRIPTIONAL NETWORK DYNAMIC	\$629,595	2013
NIH	5R01NS073124-04	GENOME-WIDE LIGHT-INDUCIBLE TUNING OF TRANSCRIPTIONAL NETWORK DYNAMIC	\$658,035	2012
NIH	7R01NS073124-03	GENOME-WIDE LIGHT-INDUCIBLE TUNING OF TRANSCRIPTIONAL NETWORK DYNAMIC	\$666,916	2011
NIH	1R01NS073124-01	GENOME-WIDE LIGHT-INDUCIBLE TUNING OF TRANSCRIPTIONAL NETWORK DYNAMIC	\$671,425	2010
NIH	5F32GM098022-02	YEAST MITOCHONDRIAL ENGINEERING: A NEW TECHNOLOGY FOR SYNTHETIC BIOLOGY AND METAB	\$31,015	2013

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NIH	1F32GM098022-01A1	YEAST MITOCHONDRIAL ENGINEERING: A NEW TECHNOLOGY FOR SYNTHETIC BIOLOGY AND METAB	\$59,432	2012
NIH	1DP2GM105434-01	BIOCOMPATIBLE CHEMISTRY FOR IN VIVO METABOLITE MODIFICATION	\$2,535,000	2012
NIH	5R01GM081527-04	ARTIFICIAL GENETIC SYSTEMS	\$264,738	2010
NIH	5R01GM081527-03	ARTIFICIAL GENETIC SYSTEMS	\$266,882	2009
NIH	5R01GM081527-02	ARTIFICIAL GENETIC SYSTEMS	\$265,487	2008
NIH	3R01GM104974-03S1	EXPERIMENTAL AND MATHEMATICAL ANALYSIS OF DELAY IN TRANSCRIPTIONAL SIGNALING	\$61,900	2014
NIH	5R01GM104974-03	EXPERIMENTAL AND MATHEMATICAL ANALYSIS OF DELAY IN TRANSCRIPTIONAL SIGNALING	\$230,063	2014
NIH	5R01GM104974-02	EXPERIMENTAL AND MATHEMATICAL ANALYSIS OF DELAY IN TRANSCRIPTIONAL SIGNALING	\$221,350	2013
NIH	1R01GM104974-01	EXPERIMENTAL AND MATHEMATICAL ANALYSIS OF DELAY IN TRANSCRIPTIONAL SIGNALING	\$229,483	2012
NIH	5SC3GM098207-02	TUMOR-TARGETING SALMONELLA EXPRESSING APOPTOSIS-INDUCING CYTOTOXIC PROTEINS	\$108,750	2014

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NIH	1SC3GM098207-01A1	TUMOR-TARGETING SALMONELLA EXPRESSING APOPTOSIS-INDUCING CYTOTOXIC PROTEINS	\$108,750	2013
NIH	5R01GM036481-25	TRANSPOSITION MECHANISMS	\$514,795	2011
NIH	5R01GM036481-24	TRANSPOSITION MECHANISMS	\$522,508	2010
NIH	5R01GM036481-23	TRANSPOSITION MECHANISMS	\$512,815	2009
NIH	2R01GM036481-22A1	TRANSPOSITION MECHANISMS	\$519,318	2008
NIH	1DP2CA195764-01	ONCOLYTIC VIROTHERAPY IN HEPATOCELLULAR CANCER	\$2,490,000	2014
NIH	1F32GM103064-01A1	ENGINEERING BACTERIOPHAGE T7 RNA POLYMERASE/PROMOTER SYSTEM FOR MAMMALIAN SYNTHET	\$21,337	2013
NIH	1R13GM111031-01	FASEB SRC ON PROTEIN FOLDING IN THE CELL	\$5,000	2014
NIH	1DP2OD004690-01	ENGINEERING MOLECULAR MOTORS	\$2,400,000	2008
NIH	1R21HG007573-01A1	ANALYSIS OF TALE-DNA RECOGNITION	\$265,438	2014
NIH	2T32GM087237-06	GRADUATE TRAINING IN COMPUTATIONAL AND SYSTEMS BIOLOGY	\$270,804	2014
NIH	1F32HL122007-01	A SYNTHETIC BIOLOGY APPROACH TO TARGETING ERYTHROPOIETIN-BASED THERAPEUTICS	\$49,850	2014

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NIH	1DP2OD008696-01	DISCOVERY AND MECHANISTIC STUDY OF FLUORINE BIOCHEMISTRY	\$2,302,500	2011
NIH	5F32GM095065-02	ENGINEERING HYBRID POLYKETIDE SYNTHASE SYSTEMS USING HIGH AFFINITY DNA BINDING DO	\$52,190	2012
NIH	1F32GM095065-01A1	ENGINEERING HYBRID POLYKETIDE SYNTHASE SYSTEMS USING HIGH AFFINITY DNA BINDING DO	\$48,398	2011
NIH	1DP5OD012133-01	ENGINEERING OF COMPUTATIONAL RECEPTORS AND GENE CIRCUITS FOR T-CELL IMMUNOTHERAPY	\$301,399	2012
NIH	5DP5OD012133-03	ENGINEERING OF COMPUTATIONAL RECEPTORS AND GENE CIRCUITS FOR T-CELL IMMUNOTHERAPY	\$342,150	2014
NIH	5DP5OD012133-02	ENGINEERING OF COMPUTATIONAL RECEPTORS AND GENE CIRCUITS FOR T-CELL IMMUNOTHERAPY	\$332,333	2013
NIH	2R01GM056838-17	STRUCTURE AND FUNCTION OF BIOSYNTHETIC ENZYMES	\$327,103	2014
NIH	5R01GM056838-16	STRUCTURE AND FUNCTION OF BIOSYNTHETIC ENZYMES	\$307,693	2013
NIH	5R01GM056838-15	STRUCTURE AND FUNCTION OF BIOSYNTHETIC ENZYMES	\$319,208	2012
NIH	5R01GM056838-14	STRUCTURE AND FUNCTION OF BIOSYNTHETIC ENZYMES	\$319,552	2011

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NIH	2R01GM056838-13	STRUCTURE AND FUNCTION OF BIOSYNTHETIC ENZYMES	\$323,118	2010
NIH	5F32GM095182-03	EXPLOITING MOLECULAR EVOLUTION TO EXPAND SYNTHETIC BIOLOGY	\$45,002	2012
NIH	5F32GM095182-02	EXPLOITING MOLECULAR EVOLUTION TO EXPAND SYNTHETIC BIOLOGY	\$53,042	2011
NIH	1F32GM095182-01	EXPLOITING MOLECULAR EVOLUTION TO EXPAND SYNTHETIC BIOLOGY	\$50,474	2010
NIH	1R41AI109911-01A1	LIVE-ATTENUATED ETEC ANTI-DIARRHEA VACCINE CONSTRUCTION VIA SYNTHETIC BIOLOGY	\$300,000	2014
NIH	5DP1OD003644-05	A NETWORK BIOLOGY APPROACH TO ANTIBIOTIC ACTION AND BACTERIAL DEFENSE MECHANISMS	\$804,375	2011
NIH	5DP1OD003644-04	A NETWORK BIOLOGY APPROACH TO ANTIBIOTIC ACTION AND BACTERIAL DEFENSE MECHANISMS	\$812,500	2010
NIH	5DP1OD003644-03	A NETWORK BIOLOGY APPROACH TO ANTIBIOTIC ACTION AND BACTERIAL DEFENSE MECHANISMS	\$812,500	2009
NIH	5DP1OD003644-02	A NETWORK BIOLOGY APPROACH TO ANTIBIOTIC ACTION AND BACTERIAL DEFENSE MECHANISMS	\$812,500	2008

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NIH	1R01GM096064-01A1	DNA ASSEMBLY VIA REITERATIVE RECOMBINATION	\$280,361	2012
NIH	5R01GM066775-11	THE STRUCTURE AND FUNCTION OF THE BACTERIAL CHEMOSOME	\$356,228	2014
NIH	2R01GM066775-10A1	THE STRUCTURE AND FUNCTION OF THE BACTERIAL CHEMOSOME	\$354,557	2013
NIH	1DP2DK098089-01	METAGENOMIC ENGINEERING OF PROBIOTIC BACTERIA TO IMPROVE INTESTINAL COLONIZATION	\$2,120,967	2012
NIH	1R13HD070605-01	US NATIONAL SYMPOSIUM ON FRONTIERS IN BIOMECHANICS: MECHANICS OF DEVELOPMENT	\$6,000	2011
NIH	1U01GM110706-01	GENOMIC AND SYNTHETIC BIOLOGY TOOLS FOR EXPRESSING NATURAL PRODUCT GENE CLUSTERS	\$2,207,718	2014
NIH	5U54AI057157-11 (5817)	PLATFORMS FOR SYNTHESIS AND TESTING OF EMERGING AND ZONOTIC VIRUSES	\$584,251	2013
NIH	5U54AI057157-10 (5817)	PLATFORMS FOR SYNTHESIS AND TESTING OF EMERGING AND ZONOTIC VIRUSES	\$536,007	2012
NIH	5U54AI057157-09 (5817)	PLATFORMS FOR SYNTHESIS AND TESTING OF EMERGING AND ZONOTIC VIRUSES	\$520,883	2011
NIH	5U54AI057157-08 (5817)	PLATFORMS FOR SYNTHESIS AND TESTING OF EMERGING AND ZONOTIC VIRUSES	\$615,765	2010

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NIH	2U54AI057157-07 (5817)	PLATFORMS FOR SYNTHESIS AND TESTING OF EMERGING AND ZONOTIC VIRUSES	\$237,013	2009
NIH	5R01GM106027-02	SPATIALLY-DELINEATED SYSTEM-LEVEL ANALYSES AND CONTROL OF CYTOSKELETAL REGULATION	\$303,745	2014
NIH	1R01GM106027-01	SPATIALLY-DELINEATED SYSTEM-LEVEL ANALYSES AND CONTROL OF CYTOSKELETAL REGULATION	\$317,620	2013
NIH	5T32GM067545-09	BIOMOLECULAR SCIENCE AND ENGINEERING TRAINING PROGRAM	\$178,618	2013
NIH	5T32GM067545-08	BIOMOLECULAR SCIENCE AND ENGINEERING TRAINING PROGRAM	\$178,618	2012
NIH	5T32GM067545-07	BIOMOLECULAR SCIENCE AND ENGINEERING TRAINING PROGRAM	\$176,752	2011
NIH	2T32GM067545-06A1	BIOMOLECULAR SCIENCE AND ENGINEERING TRAINING PROGRAM	\$174,938	2010
NIH	2P41RR011823-16 (5453)	SEMINARS GIVEN BY MAITREYA DUNHAM	\$9,940	2011
NIH	1R13AI096799-01	4TH ASM CONFERENCE ON CELL-CELL COMMUNICATION IN BACTERIA	\$10,000	2011
NIH	1R43HG007616-01A1	NON-TEMPLATED ENZYMATIC SYNTHESIS OF POLYDEOXYNUCLEOTIDES	\$222,969	2014
NIH	5R01GM077040-08	GENETIC CIRCUITS BASED ON ALLOSTERIC RIBOZYMES	\$262,432	2010

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NIH	5R01GM077040-07	GENETIC CIRCUITS BASED ON ALLOSTERIC RIBOZYMES	\$265,083	2009
NIH	5R01GM086793-04	GENETIC INTERACTIONS AND SYNTHETIC POPULATION BIOLOGY	\$248,800	2013
NIH	5R01GM086793-03	GENETIC INTERACTIONS AND SYNTHETIC POPULATION BIOLOGY	\$258,187	2012
NIH	5R01GM086793-02	GENETIC INTERACTIONS AND SYNTHETIC POPULATION BIOLOGY	\$258,539	2011
NIH	1R01GM086793-01A2	GENETIC INTERACTIONS AND SYNTHETIC POPULATION BIOLOGY	\$276,995	2010
NIH	1R01GM107417-01A1	STUDIES OF RIBOSWITCH-MEDIATED TRANSCRIPTIONAL CONTROL USING SINGLE-MOLECULE FIEL	\$377,824	2014
NIH	1F32GM111010-01	SELF-ORGANIZED MEMBRANE POLARITY OF A PHOSPHATIDYLINOSITOL-BASED SIGNALING SYSTEM	\$51,530	2014
NIH	5P50GM085764-05 (5774)	SYNTHETIC SYSTEMS	\$370,451	2014
NIH	5R01GM069811-11	ENGINEERED GENE CIRCUITS FOR BASIC SCIENCE AND BIOTECHNOLOGY	\$477,656	2014
NIH	5P50GM085764-04 (5774)	SYNTHETIC SYSTEMS	\$410,597	2013

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NIH	5R01GM069811-10	ENGINEERED GENE CIRCUITS FOR BASIC SCIENCE AND BIOTECHNOLOGY	\$468,427	2013
NIH	2R01GM069811-09	ENGINEERED GENE CIRCUITS FOR BASIC SCIENCE AND BIOTECHNOLOGY	\$499,212	2012
NIH	5R01GM079333-04	METABOLIC CONTROL IN A DYNAMIC ENVIRONMENT	\$279,020	2010
NIH	5R01GM079333-03	METABOLIC CONTROL IN A DYNAMIC ENVIRONMENT	\$282,396	2009
NIH	5R01GM079333-02	METABOLIC CONTROL IN A DYNAMIC ENVIRONMENT	\$282,927	2008
NIH	1K01CA188164-01	SYNTHETIC CHROMATIN FOR CANCER RESEARCH	\$157,081	2014
NIH	5F32GM087860-02	DETECTING HISTONE MODIFICATION TURNOVER IN LIVING CELLS	\$53,810	2010
NIH	1F32GM087860-01	DETECTING HISTONE MODIFICATION TURNOVER IN LIVING CELLS	\$51,710	2009
NIH	5P50GM085764-05 (5776)	SEED PROJECT	\$130,217	2014
NIH	5P50GM085764-05 (5789)	ADMINISTRATION	\$98,212	2014
NIH	5P50GM085764-04 (5776)	SEED PROJECT	\$145,175	2013
NIH	5P50GM085764-04 (5789)	ADMINISTRATION	\$119,093	2013
NIH	3P50GM085764-03S1	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$54,413	2013

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NIH	5P50GM085764-04	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$2,907,263	2013
NIH	5P50GM085764-03	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$2,956,419	2012
NIH	5P50GM085764-02 (5776)	SEED PROJECT	\$160,990	2011
NIH	5P50GM085764-02 (5789)	ADMINISTRATION	\$138,378	2011
NIH	5P50GM085764-02	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$2,972,468	2011
NIH	3P50GM085764-02S1	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$250,000	2011
NIH	1P50GM085764-01A2	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$3,096,235	2010
NIH	1DP2OD006466-01	ENGINEERING OF CELL SHAPE AND INTRACELLULAR ORGANIZATION	\$2,400,000	2009
NIH	3R01GM070923-05S1	CONTINUED SUPPORT AND DEVELOPMENT OF SBML AND ESSENTIAL SBML INFRASTRUCTURE	\$28,890	2009
NIH	5R01GM070923-06	CONTINUED SUPPORT AND DEVELOPMENT OF SBML AND ESSENTIAL SBML INFRASTRUCTURE	\$693,618	2009
NIH	5R01GM070923-05	CONTINUED SUPPORT AND DEVELOPMENT OF SBML AND ESSENTIAL SBML INFRASTRUCTURE	\$563,618	2008

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NIH	1R13AI092826-01	2011 CHEMICAL & BIOLOGICAL TERRORISM DEFENSE GORDON RESEARCH CONFERENCE (GRC) AND	\$15,000	2011
NIH	5P50GM085764-05	CENTER FOR SYSTEMS BIOLOGY OF CELLULAR STRESS RESPONSES	\$2,607,983	2014
NIH	5PN2EY018241-04	NDC FOR THE OPTICAL CONTROL OF BIOLOGICAL FUNCTION	\$4,293,367	2009
NIH	3PN2EY018241-03S1	NDC FOR THE OPTICAL CONTROL OF BIOLOGICAL FUNCTION	\$500,000	2009
NIH	7PN2EY018241-03	NDC FOR THE OPTICAL CONTROL OF BIOLOGICAL FUNCTION	\$5,246,633	2008
NIH	5R01GM086865-02	MULTISCALE MODELS FOR SYNTHETIC BIOLOGY	\$247,072	2010
NIH	1R01GM086865-01A2	MULTISCALE MODELS FOR SYNTHETIC BIOLOGY	\$249,550	2009
NIH	5P41RR015301-07 (5377)	CRYSTALLOGRAPHIC STUDIES OF DESIGNED COILED COILS	\$2,540	2009
NIH	1R43GM108139-01	A SYNTHETIC BIOLOGY TOOLBOX FOR NATURAL PRODUCT DISCOVERY FROM ACTINOMYCETES	\$148,262	2013
NIH	2R01DE016530-06	DISSECTING SELF-RENEWAL MECHANISMS OF IPS CELLS ON DEFINED SYNTHETIC SUBSTRATES	\$383,454	2012
NIH	5RC2GM092561-02	TRANSCRIPTOME CHARACTERIZATION OF MEDICINAL PLANTS RELEVANT TO HUMAN HEALTH	\$1,290,553	2010

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NIH	1RC2GM092561-01	TRANSCRIPTOME CHARACTERIZATION OF MEDICINAL PLANTS RELEVANT TO HUMAN HEALTH	\$1,459,447	2009
NIH	1R01CA196277-01	REDESIGNING THE T CELL: USING SYNTHETIC BIOLOGY TO ENGINEER THERAPEUTIC CELLS	\$680,304	2014
NIH	5R21EB005844-03	WATER-SOLUBLE ARRAYS FOR PERSONALIZED MEDICINE	\$174,408	2008
NIH	1DP2HL117748-01	BUILDING ARTIFICIAL PLATELETS	\$2,332,500	2012
NIH	1R43AG045956-01A1	A SYNTHETIC BIOLOGY PLATFORM TO IDENTIFY NOVEL ANTI-AGING NATURAL PRODUCTS	\$211,500	2014
NIH	1DP2OD008435-01	HIGH-THROUGHPUT NANOSCALE APPROACHES TO STUDYING AND INHIBITING AMYLOID TOXICITY	\$2,407,500	2011
NIH	1R13AR061167-01	2011 CARTILAGE BIOLOGY & PATHOLOGY GRC	\$21,000	2011
NIH	1R43HG005203-01A1	EFFICIENT SIMULTANEOUS SYNTHESIS OF LARGE ARRAYS OF OLIGONUCLEOTIDES	\$300,011	2012
NIH	5F32GM099277-02	NO AS A SENSOR OF GENE EXPRESSION DIFFERENCES: APPLICATION TO SYNTHETIC BIOLOGY	\$53,942	2012
NIH	1F32GM099277-01	NO AS A SENSOR OF GENE EXPRESSION DIFFERENCES: APPLICATION TO SYNTHETIC BIOLOGY	\$51,326	2011

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NIH	5P01GM077596-08	DISCOVERY, DESIGN, AND DEVELOPMENT OF PHOSPHONIC ACID ANTIBIOTICS	\$1,570,624	2014
NIH	5P01GM077596-07	DISCOVERY, DESIGN, AND DEVELOPMENT OF PHOSPHONIC ACID ANTIBIOTICS	\$1,515,652	2013
NIH	2P01GM077596-06	DISCOVERY, DESIGN, AND DEVELOPMENT OF PHOSPHONIC ACID ANTIBIOTICS	\$1,749,052	2012
NIH	5F32GM079974-03	CHARACTERIZATION OF NATURAL MRNA GENETIC SWITCHES THAT BIND METABOLITES	\$51,710	2009
NIH	5F32GM079974-02	CHARACTERIZATION OF NATURAL MRNA GENETIC SWITCHES THAT BIND METABOLITES	\$49,646	2008
NIH	1R13GM093362-01	2010 SINGLE-MOLECULE APPROACHES TO BIOLOGY GORDON RESEARCH CONFERENCE	\$7,000	2010
NIH	5R01CA127622-08	SALINOSPORAMIDE BIOSYNTHESIS AND ENGINEERING	\$275,898	2014
NIH	5R01CA127622-07	SALINOSPORAMIDE BIOSYNTHESIS AND ENGINEERING	\$267,365	2013
NIH	2R01CA127622-06A1	SALINOSPORAMIDE BIOSYNTHESIS AND ENGINEERING	\$284,431	2012

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NIH	5R01HG004708-04	BIOPHYSICAL MODELS FOR PREDICTION AND DESIGN OF EUKARYOTIC CHROMATIN STRUCTURE AN	\$261,549	2012
NIH	5R01HG004708-03	BIOPHYSICAL MODELS FOR PREDICTION AND DESIGN OF EUKARYOTIC CHROMATIN STRUCTURE AN	\$261,549	2011
NIH	5R01HG004708-02	BIOPHYSICAL MODELS FOR PREDICTION AND DESIGN OF EUKARYOTIC CHROMATIN STRUCTURE AN	\$264,190	2010
NIH	1R01HG004708-01A1	BIOPHYSICAL MODELS FOR PREDICTION AND DESIGN OF EUKARYOTIC CHROMATIN STRUCTURE AN	\$266,859	2009
NIH	1R43AI109924-01	ULTRA-LOW DOSE INFLUENZA VACCINES	\$199,904	2014
NIH	5R25GM105608-02	THE Q-BIO SUMMER SCHOOL	\$171,217	2014
NIH	1R25GM105608-01	THE Q-BIO SUMMER SCHOOL	\$174,626	2013
NIH	1F32GM103165-01A1	A NEW APPROACH FOR ENGINEERING POLYKETIDES BY CYTOCHROME P450 C-H OXIDATION	\$49,214	2013
NIH	1R13AI106171-01	TWENTY SEVENTH FUNGAL GENETICS CONFERENCE	\$8,000	2013
NIH	1R13AI094938-01	TWENTY SIXTH FUNGAL GENETICS CONFERENCE	\$15,000	2011
NIH	5R00GM083155-04	MICROFLUIDIC PROCESSORS FOR DIRECTED EVOLUTION AND SYNTHETIC BIOLOGY	\$244,044	2011

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NIH	5R00GM083155-03	MICROFLUIDIC PROCESSORS FOR DIRECTED EVOLUTION AND SYNTHETIC BIOLOGY	\$246,509	2010
NIH	4R00GM083155-02	MICROFLUIDIC PROCESSORS FOR DIRECTED EVOLUTION AND SYNTHETIC BIOLOGY	\$249,000	2009
NIH	1K99GM083155-01	MICROFLUIDIC PROCESSORS FOR DIRECTED EVOLUTION AND SYNTHETIC BIOLOGY	\$78,983	2008
NIH	1R13AI106049-01	2013 NUCLEOSIDES, NUCLEOTIDES, AND OLIGONUCLEOTIDES GORDON RESEARCH CONFERENCE	\$5,000	2013
NIH	1R13CA159443-01	2011 NUCLEOSIDES, NUCLEOTIDES, AND OLIGONUCLEOTIDES GRC	\$3,500	2011
NIH	5U01GM098248-03	ENZYME DISCOVERY FOR NATURAL PRODUCT BIOSYNTHESIS	\$675,317	2014
NIH	7U01GM098248-02	ENZYME DISCOVERY FOR NATURAL PRODUCT BIOSYNTHESIS	\$705,233	2013
NIH	1U01GM098248-01	ENZYME DISCOVERY FOR NATURAL PRODUCT BIOSYNTHESIS	\$749,823	2011
NIH	5R01GM085286-04	SINGLE-MOLECULE AND SINGLE-CELL ANALYSIS OF TRANSCRIPTION FACTOR-DNA COMPLEXES	\$337,400	2012

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NIH	5R01GM085286-03	SINGLE-MOLECULE AND SINGLE-CELL ANALYSIS OF TRANSCRIPTION FACTOR-DNA COMPLEXES	\$337,400	2011
NIH	5R01GM085286-02	SINGLE-MOLECULE AND SINGLE-CELL ANALYSIS OF TRANSCRIPTION FACTOR-DNA COMPLEXES	\$340,808	2010
NIH	3R01GM085286-01S1	SINGLE-MOLECULE AND SINGLE-CELL ANALYSIS OF TRANSCRIPTION FACTOR-DNA COMPLEXES	\$422,234	2009
NIH	1R01GM085286-01	SINGLE-MOLECULE AND SINGLE-CELL ANALYSIS OF TRANSCRIPTION FACTOR-DNA COMPLEXES	\$342,125	2009
NIH	5DP1GM106409-03	A NEW STRATEGY TO DISRUPT PROTEIN-PROTEIN INTERACTIONS IN EUKARYOTIC CELLS.	\$975,000	2014
NIH	1F32HD069168-01	A NOVEL APPROACH TO DECODING VERTEBRATE GENE REGULATION	\$53,042	2011
NIH	5R44GM105192-03	SORTED LIBRARIES OF ERROR-FREE LONG OLIGONUCLEOTIDES	\$493,877	2014
NIH	4R44GM105192-02	SORTED LIBRARIES OF ERROR-FREE LONG OLIGONUCLEOTIDES	\$611,577	2013
NIH	1R44GM105192-01	SORTED LIBRARIES OF ERROR-FREE LONG OLIGONUCLEOTIDES	\$307,411	2012

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NIH	3P41RR006009-20S1 (8411)	AUTOMATED DESIGN AND OPTIMIZATION OF SYNTHETIC GENETIC SYSTEMS	\$1,094	2011
NIH	5P41RR006009-20 (7792)	PREDICTING PROTEIN TRANSLATION RATE FROM DNA SEQUENCE: A WEB SERVICE	\$1,091	2010
NIH	5P41RR006009-20 (7843)	AUTOMATED DESIGN AND OPTIMIZATION OF SYNTHETIC GENETIC SYSTEMS	\$1,091	2010
NIH	1R13GM088843-01	ALBANY 2009: THE 16TH CONVERSATION	\$5,000	2009
NIH	1RC1GM091240-01	IDENTIFICATION OF MASTER REGULATORS FOR STEM CELL PLURIPOTENCY AND SELF-RENEWAL	\$996,817	2010
NIH	5R01GM095990-04	MULTI-SCALE MODELING OF ASYMMETRIC CELL DIVISION	\$298,109	2014
NIH	5R01GM095990-03	MULTI-SCALE MODELING OF ASYMMETRIC CELL DIVISION	\$287,678	2013
NIH	5R01GM095990-02	MULTI-SCALE MODELING OF ASYMMETRIC CELL DIVISION	\$298,118	2012
NIH	1R01GM095990-01	MULTI-SCALE MODELING OF ASYMMETRIC CELL DIVISION	\$293,522	2011
NIH	3R01GM036373-30S1	DESIGNING BIOLOGICAL CIRCUITS	\$37,149	2014
NIH	5R01GM036373-30	DESIGNING BIOLOGICAL CIRCUITS	\$325,732	2014
NIH	2R01GM036373-29	DESIGNING BIOLOGICAL CIRCUITS	\$325,637	2013

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NIH	5T32GM105538-02	CHEMISTRY OF LIFE PROCESSES PREDOCTORAL TRAINING PROGRAM	\$180,536	2014
NIH	1T32GM105538-01	CHEMISTRY OF LIFE PROCESSES PREDOCTORAL TRAINING PROGRAM	\$178,618	2013
NIH	3R42HG006737-03S1	A SYNTHETIC BIOLOGY LIBRARY FOR THE SEMANTIC WEB	\$89,000	2012
NIH	5R42HG006737-03	A SYNTHETIC BIOLOGY LIBRARY FOR THE SEMANTIC WEB	\$379,537	2012
NIH	9R42HG006737-02	A SYNTHETIC BIOLOGY LIBRARY FOR THE SEMANTIC WEB	\$379,537	2011
NIH	1R41LM010745-01	A SYNTHETIC BIOLOGY LIBRARY FOR THE SEMANTIC WEB	\$99,967	2010
NIH	5F32GM080898-03	SYNTHETIC BIOLOGY: RESTRUCTURING THE ESCHERICHIA COLI GENOME	\$51,710	2009
NIH	5F32GM080898-02	SYNTHETIC BIOLOGY: RESTRUCTURING THE ESCHERICHIA COLI GENOME	\$49,646	2008
NIH	5DP1AT007886-03	SYNTHETIC BIOLOGY PLATFORMS FOR NATURAL PRODUCT DISCOVERY AND BIOSYNTHESIS	\$785,000	2014
NIH	5DP1AT007886-02	SYNTHETIC BIOLOGY PLATFORMS FOR NATURAL PRODUCT DISCOVERY AND BIOSYNTHESIS	\$761,450	2013
NIH	1DP1AT007886-01	SYNTHETIC BIOLOGY PLATFORMS FOR NATURAL PRODUCT DISCOVERY AND BIOSYNTHESIS	\$785,000	2012

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NIH	5RC1GM091298-02	MOLECULAR PLATFORMS FOR THE DEVELOPMENT OF INTELLIGENT THERAPEUTICS TARGETED TO D	\$499,896	2010
NIH	1RC1GM091298-01	MOLECULAR PLATFORMS FOR THE DEVELOPMENT OF INTELLIGENT THERAPEUTICS TARGETED TO D	\$499,996	2009
NIH	1R13AR057685-01	25TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR GRAVITATIONAL AND SPACE BIOLOGY	\$19,975	2009
NIH	3DP1GM106413-03S1	REDISCOVERING NATURAL CHEMICAL DIVERSITY -1DP1GM106413	\$64,516	2014
NIH	5DP1GM106413-03	REDISCOVERING NATURAL CHEMICAL DIVERSITY	\$770,000	2014
NIH	5DP1GM106413-02	REDISCOVERING NATURAL CHEMICAL DIVERSITY	\$746,900	2013
NIH	1DP1GM106413-01	REDISCOVERING NATURAL CHEMICAL DIVERSITY	\$770,000	2012
NIH	5R01HG003219-10	PREDICTIVE LEARNING OF POST-TRANSCRIPTIONAL NETWORKS	\$392,000	2014
NIH	2R01HG003219-09A1	PREDICTIVE LEARNING OF POST-TRANSCRIPTIONAL NETWORKS	\$400,000	2013
NIH	5SC2GM105419-02	NSRR REGULATION OF THE SMALL NONCODING RNA RYBB IN ESCHERICHIA COLI	\$151,000	2014
NIH	1SC2GM105419-01	NSRR REGULATION OF THE SMALL NONCODING RNA RYBB IN ESCHERICHIA COLI	\$150,000	2013

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NIH	5R01GM104397-02	MECHANISMS FOR THE EVOLUTION OF NOVEL DNA SPECIFICITY IN A TRANSCRIPTION FACTOR F	\$323,942	2014
NIH	3R01GM104397-01A1S1	MECHANISMS FOR THE EVOLUTION OF NOVEL DNA SPECIFICITY IN A TRANSCRIPTION FACTOR F	\$64,592	2014
NIH	1R01GM104397-01A1	MECHANISMS FOR THE EVOLUTION OF NOVEL DNA SPECIFICITY IN A TRANSCRIPTION FACTOR F	\$273,850	2013
NIH	5R01ES001670-36	FUNGAL POLYKETIDE SYNTHASES AND ENVIRONMENTAL TOXIN BIOSYNTHESIS	\$452,822	2014
NIH	2R01ES001670-35	FUNGAL POLYKETIDE SYNTHASES AND ENVIRONMENTAL TOXIN BIOSYNTHESIS	\$457,395	2013
NIH	5F32GM076964-03	DIRECTED EVOLUTION OF LUXR TO REFOCUS SPECIFICITY	\$48,796	2008
NIH	1R13AR064607-01	2013 CARTILAGE BIOLOGY AND PATHOLOGY: FORMATION, STRUCTURE, FUNCTION, AND REGENER	\$21,000	2013
NIH	5R41AI106090-02	A SYNTHETIC HUMAN CYTOMEGALOVIRUS VACCINE PLATFORM	\$273,060	2014
NIH	1R21AI109418-01	COMBINATORY GENOMIC ASSEMBLY TO ASSESS HSV-1 PHENOTYPES	\$296,846	2014

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NIH	1R41AI106090-01A1	A SYNTHETIC HUMAN CYTOMEGALOVIRUS VACCINE PLATFORM	\$300,000	2013
NIH	5T32GM067545-10	BIOMOLECULAR SCIENCE AND ENGINEERING TRAINING PROGRAM	\$124,398	2014
NIH	5SC2AI109500-02	ENGINEERING ISOBUTYLAMINE N- HYDROXYLASE FOR APPLICATIONS IN ANTIBIOTIC BIOSYNTHESIS	\$131,050	2014
NIH	1SC2AI109500-01	ENGINEERING ISOBUTYLAMINE N- HYDROXYLASE FOR APPLICATIONS IN ANTIBIOTIC BIOSYNTHESIS	\$145,000	2013
NIH	5R21AG040360-02	MOLECULAR DYNAMICS IN CELLULAR AGING: A SYNTHETIC BIOLOGY APPROACH.	\$194,340	2012
NIH	1R21AG040360-01	MOLECULAR DYNAMICS IN CELLULAR AGING: A SYNTHETIC BIOLOGY APPROACH.	\$161,950	2011
NIH	3R01AI083754-05S1	RESEARCH AND DEVELOPMENT OF A NOVEL SYSTEM TO PRODUCE POLYSACCHARIDE CONJUGATE VA	\$40,437	2014
NIH	5R01AI083754-05	RESEARCH AND DEVELOPMENT OF A NOVEL SYSTEM TO PRODUCE POLYSACCHARIDE CONJUGATE VA	\$370,000	2014

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NIH	5R01AI083754-04	RESEARCH AND DEVELOPMENT OF A NOVEL SYSTEM TO PRODUCE POLYSACCHARIDE CONJUGATE VA	\$347,800	2013
NIH	2R01AI083754-03	RESEARCH AND DEVELOPMENT OF A NOVEL SYSTEM TO PRODUCE POLYSACCHARIDE CONJUGATE VA	\$368,958	2012
NIH	1R01GM106081-01A1	FORWARD ENGINEERING TO UNDERSTAND GENE REGULATORY NETWORK TOPOLOGIES	\$324,449	2014
NIH	5F32GM080887-02	ELUCIDATING THE FUNDAMENTAL PRINCIPLES OF CELL POLARITY USING SYNTHETIC BIOLOGY	\$14,955	2008
NIH	5R01CA173712-02	GENETIC CIRCUITS FOR HIGH-THROUGHPUT, MULTI-SENSORY, LIVE CELL MICRORNA PROF	\$499,145	2014
NIH	5P50GM098792-02	MIT CENTER FOR INTEGRATIVE SYNTHETIC BIOLOGY	\$2,087,772	2014
NIH	1P50GM098792-01A1	MIT CENTER FOR INTEGRATIVE SYNTHETIC BIOLOGY	\$2,349,998	2013
NIH	1R01CA173712-01	GENETIC CIRCUITS FOR HIGH-THROUGHPUT, MULTI-SENSORY, LIVE CELL MICRORNA PROF	\$522,629	2013
NIH	5R01GM074712-04	ENGINEERING SYNTHETIC MULTICELLULAR SYSTEMS	\$290,029	2009
NIH	7R01GM074712-05	ENGINEERING SYNTHETIC MULTICELLULAR SYSTEMS	\$181,268	2009

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NIH	5R01GM074712-03	ENGINEERING SYNTHETIC MULTICELLULAR SYSTEMS	\$450,940	2008
NIH	1R13AI114226-01	5TH ASM CONFERENCE ON CELL-CELL COMMUNICATION IN BACTERIA	\$7,000	2014
NIH	5R01GM104258-02	SYNTHETIC BIOLOGY APPROACH TO REGIOSELECTIVELY MODIFIED POLYKETIDES	\$274,194	2014
NIH	1R01GM104258-01	SYNTHETIC BIOLOGY APPROACH TO REGIOSELECTIVELY MODIFIED POLYKETIDES	\$259,849	2013
NIH	5R21AI104282-03	SYNTHETIC MOLECULAR SENSORS TO TARGET LATENTLY INFECTED CELLS FOR HIV ERADICATION	\$148,500	2014
NIH	1R21AI104282-01	SYNTHETIC MOLECULAR SENSORS TO TARGET LATENTLY INFECTED CELLS FOR HIV ERADICATION	\$7,190	2013
NIH	7R21AI104282-02	SYNTHETIC MOLECULAR SENSORS TO TARGET LATENTLY INFECTED CELLS FOR HIV ERADICATION	\$142,922	2013
NIH	1DP2CA186574-01	SYNTHETICALLY REENGINEERED T CELLS AS THE NEXT GENERATION OF SMART CANCER THERAPY	\$2,455,500	2013
NIH	5F32GM101782-02	SYNTHETIC IMMUNORECEPTOR SYSTEMS FOR COMBINATORIAL TUMOR ANTIGEN DETECTION	\$53,942	2013

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NIH	1F32GM101782-01	SYNTHETIC IMMUNORECEPTOR SYSTEMS FOR COMBINATORIAL TUMOR ANTIGEN DETECTION	\$52,190	2012
NIH	1K99HG007982-01A1	GENOMIC AND FUNCTIONAL ANALYSIS OF ACTIVE DNA DEMETHYLATION IN MAMMALIAN CELLS	\$118,799	2014
NIH	5R01DK083756-04	SYSTEMS BIOLOGY OF CROHN'S DISEASE	\$368,640	2011
NIH	5R01DK083756-03	SYSTEMS BIOLOGY OF CROHN'S DISEASE	\$372,364	2010
NIH	5R01DK083756-02	SYSTEMS BIOLOGY OF CROHN'S DISEASE	\$375,594	2009
NIH	1R01DK083756-01	SYSTEMS BIOLOGY OF CROHN'S DISEASE	\$373,469	2008
NIH	5R21AI068999-02	DIRECTED EVOLUTION OF A MURINE MODEL OF HEPATITIS C VIRUS REPLICATION	\$254,250	2010
NIH	1R21AI068999-01A2	DIRECTED EVOLUTION OF A MURINE MODEL OF HEPATITIS C VIRUS REPLICATION	\$211,771	2009
NIH	1R01GM110494-01	A SYNTHETIC BIOLOGY APPROACH TO ANALYZE EVOLUTION OF PROGRAMMED BACTERIAL DEATH	\$289,920	2014
NIH	5R01CA118486-05	COORDINATING CELL KILLING BY COMMUNICATION: BIOLOGICAL CONTROL AND CANCER THERAPY	\$208,402	2010
NIH	5R01CA118486-04	COORDINATING CELL KILLING BY COMMUNICATION: BIOLOGICAL CONTROL AND CANCER THERAPY	\$208,402	2009

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NIH	5R01CA118486-03	COORDINATING CELL KILLING BY COMMUNICATION: BIOLOGICAL CONTROL AND CANCER THERAPY	\$208,402	2008
NIH	1R43GM109737-01	AN OPEN SOURCE PRECISION MEDICINE PLATFORM FOR CLOUD OPERATING SYSTEMS	\$149,947	2014
NIH	5DP1MH100706-03	PROBING NEUROPSYCHIATRIC DISEASES USING TARGETED EPIGENOME AND GENOME ENGINEERING	\$865,000	2014
NIH	5DP1MH100706-02	PROBING NEUROPSYCHIATRIC DISEASES USING TARGETED EPIGENOME AND GENOME ENGINEERING	\$839,050	2013
NIH	5P01GM077596-08 (8257)	BIOSYNTHESIS VIA SYNTHETIC BIOLOGY	\$314,050	2014
NIH	5P01GM077596-07 (8257)	BIOSYNTHESIS VIA SYNTHETIC BIOLOGY	\$303,056	2013
NIH	2P01GM077596-06 (8257)	BIOSYNTHESIS VIA SYNTHETIC BIOLOGY	\$314,050	2012
NSF	1253293	CAREER: MASSIVELY-PARALLEL SINGLE-CELL GENOMICS AND TRANSCRIPTOMICS WITH DROPLET MICROFLUIDICS	\$469,559	2013
NSF	1036001	INTERNATIONAL SUMMER SCHOOL ON BIOCOMPLEXITY FROM SYSTEM TO GENE, JULY 1-7, 2010, ISTANBUL, TURKEY	\$15,000	2010
NSF	1330344	REAL TIME CHEMOTAXIS IN COMMENSAL PLANT-MICROBE ASSOCIATIONS	\$254,172	2013

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NSF	1151220	CAREER: SYNTHETIC AUXOTROPHY FOR THE CONTAINMENT OF ENGINEERED MICROBES	\$488,793	2012
NSF	1147207	COLLABORATIVE RESEARCH: ABI DEVELOPMENT: A MODULAR, COMMUNITY BASED DESIGN PLATFORM FOR SYNTHETIC BIOLOGY (CLOTHO)	\$92,042	2012
NSF	1101876	DIFFUSIVELY COUPLED NETWORKS: SYNCHRONIZATION, DE-SYNCHRONIZATION, AND STRUCTURE	\$398,086	2011
NSF	946510	SYNBERC BIOFAB FACILITY	\$1,400,000	2010
NSF	756801	ENGINEERING EUKARYOTIC PROTEIN SCAFFOLDS TO REPROGRAM PROKARYOTIC SIGNALING AND METABOLIC PATHWAYS	\$540,000	2008
NSF	1403077	SUSCHEM: ENGINEERING AND EVOLUTION OF CYTOCHROME P450 ENZYMES FOR NON-NATURAL CHEMISTRY	\$345,000	2014
NSF	1132442	TROPHIC CONVERSION OF AN OBLIGATE PHOTOAUTOTROPHIC ORGANISM TO PRODUCE ISOBUTYRALDEHYDE IN THE ABSENCE OF LIGHT	\$299,985	2011

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NSF	1066182	SYNTHETIC BIOLOGY APPROACHES TOWARD DIRECT RECYCLING OF CARBON DIOXIDE TO C4-C5 ALCOHOLS IN THERMOPHILIC CYANOBACTERIA	\$361,409	2011
NSF	943345	COLLABORATIVE RESEARCH: CYBERPLASM - AN AUTONOMOUS MICRO-ROBOT CONSTRUCTED USING SYNTHETIC BIOLOGY	\$538,562	2009
NSF	1445545	ERASYNBIO: INDUCED EVOLUTION OF SYNTHETIC YEAST GENOMES	\$922,578	2014
NSF	1445201	ERASYNBIO: BIOMOLECULAR ORIGAMI	\$388,779	2014
NSF	965918	NSF IGERT: TRAINING THE NEXT GENERATION OF RESEARCHERS IN CELLULAR & MOLECULAR MECHANICS AND BIONANOTECHNOLOGY	\$1,250,000	2010
NSF	1150834	MODULAR RIBOSWITCH REPORTERS FOR DIRECTED PROTEIN EVOLUTION	\$400,000	2012
NSF	1421179	MULTI-SITE PUBLIC ENGAGEMENT WITH SCIENCE - SYNTHETIC BIOLOGY (INNOVATIONS IN DEVELOPMENT)	\$2,101,572	2014

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NSF	1412869	FIREBUG: A LIVING CELL THAT PROPAGATES PLASMIDS BUILT FROM AN ARTIFICIAL GENETIC SYSTEM	\$500,000	2014
NSF	1160005	A SWITCH FOR SYNTHETIC BIOLOGY BASED ON FEATURE DENSITY	\$327,592	2012
NSF	1429195	MRI: ACQUISITION OF A 500 MHZ NMR TO ENHANCE RESEARCH AND TRAINING	\$385,000	2014
NSF	943386	COLLABORATIVE RESEARCH: PROGRAMMING THE RHIZOSPHERE THROUGH HIGHLY INTEGRATED GENETIC, SPATIO-TEMPORAL CONTROL SYSTEMS	\$310,054	2009
NSF	1331151	COLLABORATIVE RESEARCH: NITROPLAST: A LIGHT-DRIVEN, SYNTHETIC NITROGEN-FIXING ORGANELLE	\$425,343	2013
NSF	1437836	ENHANCED PRODUCTION OF ADVANCED BIOFUELS THROUGH MODEL GUIDED SYNTHETIC BIOLOGY	\$313,889	2014
NSF	1403099	COLLABORATIVE RESEARCH: INTRACELLULAR LOCALIZATION OF BIOSYNTHETIC PATHWAYS FOR CONVERSION OF LIPIDS TO DICARBOXYLIC ACIDS IN OLEAGINOUS YEAST	\$301,127	2014

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NSF	1351354	CAREER: VERSATILE TRANSCRIPTION ACTIVATOR-LIKE EFFECTOR LIBRARIES FOR GENOME-WIDE SCREENS	\$80,000	2014
NSF	1443299	SYNTHESIS AND RESTRUCTURING OF A YEAST CHROMOSOME	\$599,299	2014
NSF	1445537	ERASYNBIO: INDUCED EVOLUTION OF SYNTHETIC YEAST GENOMES	\$427,422	2014
NSF	1441866	SAVI: YEAST CHROMOSOME (SC2.0) SYNTHESIS AND ANALYSIS	\$147,578	2014
NSF	1158201	SAVI: YEAST CHROMOSOME (SC2.0) SYNTHESIS AND ANALYSIS	\$500,000	2012
NSF	1026068	SYNTHESIS AND RESTRUCTURING OF A YEAST CHROMOSOME	\$867,579	2010
NSF	822659	SYNTHETIC BIOLOGY WORKSHOP WILL BE HELD APRIL 3-4, 2008 AT THE HOWARD HUGHES MEDICAL INSTITUTE JANELIA FARMS CAMPUS IN ASHBURN, VIRGINIA	\$25,332	2008
NSF	910771	HEME DISTORTION IN THE H-NOX FAMILY: FROM BASIC CHEMICAL AND PHYSICAL PROPERTIES TO SIGNAL TRANSDUCTION	\$585,000	2009
NSF	1242765	INSPIRE: NEUTROPHIL DELIVERY OF APOPTOSIS-INDUCING ANTICANCER DRUGS	\$600,000	2012
NSF	1219154	SHF: SMALL: BIT-LEVEL FORMAL VERIFICATION: KEEPING PACE WITH INDUSTRIAL NEEDS	\$450,000	2012

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NSF	1411991	CHEMICAL PROBES TO DECIPHER THE STRUCTURE AND MECHANISM OF NONRIBOSOMAL PEPTIDE BIOSYNTHESIS	\$483,000	2014
NSF	1314897	SBIR PHASE I: TRACKING ALGORITHMS FOR UNCOVERING COMPLEX DYNAMIC INTERACTIONS IN LIVE CELLS	\$149,952	2013
NSF	1329351	COLLABORATIVE RESEARCH: RUI: BIOMAPS: MODULAR PROGRAMMED EVOLUTION OF BACTERIA FOR OPTIMIZATION OF METABOLIC PATHWAYS	\$229,295	2013
NSF	1120578	RUI: MPS-BIO: COLLABORATIVE RESEARCH: DESIGN AND CONSTRUCTION OF SECOND-GENERATION BACTERIAL COMPUTERS	\$199,999	2011
NSF	1127271	WORKSHOP: SYNTHETIC BIOLOGY WORKSHOPS FOR INTERDISCIPLINARY TEAMS OF UNDERGRADUATE FACULTY TO BE HELD SUMMERS OF 2012-2014 AT JANELIA FARM CONFERENCE CENTER (ASHBURN, VA)	\$269,700	2011
NSF	1013619	SBIR PHASE I: SYNTHETIC PATHWAY IN PICHIA PASTORIS FOR PRODUCTION OF 1,2-PROPANEDIOL FROM CRUDE GLYCEROL	\$164,481	2010

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NSF	754010	SYNTHETIC BIOLOGY UNDERGRADUATE RESEARCH EXPERIENCE	\$199,434	2008
NSF	956161	CAREER: EVOLVING NEW SYNTHETIC CHEMISTRY IN LIVING ORGANISMS	\$476,000	2010
NSF	1304583	EVALUATING THE FITNESS OF A PRE- RNA WORLD POLYMER BY DARWINIAN EVOLUTION	\$400,000	2013
NSF	821032	INVESTIGATION INTO THE EVOLUTION OF A PROTEIN ENZYME FROM RANDOM SEQUENCE ORIGIN	\$405,870	2008
NSF	1248790	SBIR PHASE I: BIOPRODUCTION OF FEEDSTOCK AMINO ACIDS	\$180,000	2013
NSF	1264719	COLLABORATIVE PROPOSAL: ENGINEERING BACTERIAL OUTER MEMBRANE VESICLES FOR NEW BIOTECHNOLOGY APPLICATIONS	\$150,000	2013
NSF	1445570	ERASYNBIO: INTENSIFICATION OF THE SYNTHETIC BIOLOGY DESIGN CYCLE	\$234,523	2014
NSF	1262439	ABI INNOVATION: ENGINEERING MOLECULAR SCISSORS BY COMPUTATIONAL DESIGN WITH EXPERIMENTAL VALIDATION	\$700,000	2013
NSF	1016618	ENERGY PARAMETERS AND NOVEL ALGORITHMS FOR AN EXTENDED NEAREST NEIGHBOR ENERGY MODEL OF RNA	\$399,998	2010

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NSF	1403815	SUSCHEM: DEVELOPMENT OF MICROBIAL CO-CULTURES FOR THE PRODUCTION OF FATTY ACIDS	\$550,000	2014
NSF	1055676	CAREER: ENGINEERING INTERSPECIES COMMUNICATION AND SYNTHETIC MICROBIAL CONSORTIA	\$141,646	2011
NSF	1330862	UNDERSTANDING REGULATORY RNA-PROTEIN NETWORKS TO CONTROL CELLULAR METABOLISM	\$321,488	2013
NSF	1242975	INTERNATIONAL CONFERENCE ON BIOENGINEERING AND NANOTECHNOLOGY, JUNE 24-27, 2012, BERKELEY, CALIFORNIA	\$9,935	2012
NSF	1004925	UC DAVIS CHEMENERGY REU SITE: CHEMISTRY RESEARCH EXPERIENCE FOR UNDERGRADUATES IN ENERGY AND CATALYSIS	\$223,900	2010
NSF	1443228	ERASYNBIO: ESTABLISHMENT OF A FULLY SYNTHETIC, MIRROR-IMAGE BIOLOGICAL SYSTEM	\$450,001	2014
NSF	1412262	STUDYING PROTEASOME ASSEMBLY USING A COMBINATION OF MODELING AND EXPERIMENT	\$559,158	2014

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NSF	1411715	COLLABORATIVE RESEARCH: GLYCOENGINEERING WITHOUT BORDERS: BACTERIAL CELL-FREE GLYCOPROTEIN SYNTHESIS	\$300,000	2014
NSF	1264701	COLLABORATIVE PROPOSAL: ENGINEERING BACTERIAL OUTER MEMBRANE VESICLES FOR NEW BIOTECHNOLOGY APPLICATIONS	\$150,000	2013
NSF	1440574	INTERNATIONAL WORKSHOP ON BIODESIGN AUTOMATION (IWBDA)	\$12,000	2014
NSF	1253856	CAREER: DESIGN AUTOMATION INFRASTRUCTURE FOR DNA ASSEMBLY IN SYNTHETIC BIOLOGY	\$173,727	2013
NSF	1355868	I-CORPS: LATTICE AUTOMATION HIGH THROUGHPUT DNA CLONING SOLUTIONS	\$50,000	2013
NSF	1342046	INTERNATIONAL WORKSHOP ON BIODESIGN AUTOMATION (IWBDA)	\$12,000	2013
NSF	1147158	COLLABORATIVE RESEARCH: ABI DEVELOPMENT: A MODULAR, COMMUNITY BASED DESIGN PLATFORM FOR SYNTHETIC BIOLOGY (CLOTHO)	\$357,234	2012
NSF	1240677	INTERNATIONAL WORKSHOP ON BIODESIGN AUTOMATION (IWBDA)	\$12,000	2012

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NSF	1032222	METABOLIC ENGINEERING VIII CONFERENCE ON METABOLIC ENGINEERING (ME VIII) TO BE HELD IN JEJU ISLAND, KOREA, JUNE 13-17, 2010.	\$15,000	2010
NSF	1345920	SBIR PHASE I: PRODUCTION OF HIGH-VALUE CHEMICALS USING INDUSTRIAL YEAST HOSTS	\$150,000	2014
NSF	1402896	ACTIVATORS TO MAXIMIZE ALGAL OIL PRODUCTION	\$550,000	2014
NSF	1158531	COLLABORATIVE RESEARCH: SHORT-CIRCUITING IN BACTERIAL QUORUM SENSING	\$52,776	2012
NSF	1064491	CONFERENCE: "2011 PLANT METABOLIC ENGINEERING GRS/GRC"; TO BE HELD JULY 24-29, 2011, IN WATERVILLE, NEW HAMPSHIRE.	\$8,000	2011
NSF	1317640	COLLABORATIVE RESEARCH: MOLECULAR PROGRAMMING ARCHITECTURES, ABSTRACTIONS, ALGORITHMS, AND APPLICATIONS	\$400,000	2013
NSF	1350915	CAREER: THE IMPACT OF ANEUPLOIDY ON TRANSCRIPTION: A MECHANISTIC APPROACH	\$136,460	2014
NSF	962520	PLANNING FUTURE RESEARCH IN NETWORK SCIENCE AND ENGINEERING	\$50,400	2009

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NSF	1437657	ENGINEERED CONSORTIA FOR EFFECTIVE UTILIZATION OF A CYANOBACTERIAL CARBOHYDRATE FEEDSTOCK	\$299,773	2014
NSF	1450856	I-CORPS: OUTSOURCING MOLECULAR CLONING THROUGH STANDARDIZED, HIGH-THROUGHPUT DNA ASSEMBLY	\$50,000	2014
NSF	1151195	CAREER: ENGINEERED PROTEIN COMPLEXES FOR DESIGNABLE CONTROL OVER METABOLIC PATHWAY FLUX	\$118,978	2012
NSF	1347635	CAREER: TUNABLE DYNAMICS FROM INTERLINKED FEEDBACK LOOPS IN SYNTHETIC AND NATURAL GENE CIRCUITS	\$625,000	2014
NSF	1403495	HORMONE-RESPONSIVE ELECTRODES FOR QUANTITATIVE DISCOURSE WITH ENDOCRINE CELLS	\$329,990	2014
NSF	1329350	COLLABORATIVE RESEARCH: RUI: BIOMAPS: MODULAR PROGRAMMED EVOLUTION OF BACTERIA FOR OPTIMIZATION OF METABOLIC PATHWAYS	\$174,243	2013
NSF	1120558	RUI: MPS-BIO: COLLABORATIVE RESEARCH: DESIGN AND CONSTRUCTION OF SECOND-GENERATION BACTERIAL COMPUTERS	\$200,001	2011

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1345593	SBIR PHASE I: NON-TEMPLATED ENZYMATIC SYNTHESIS OF POLYDEOXYNUCLEOTIDES	\$150,000	2014
NSF	1224161	BUILDING INFORMAL SCIENCE EDUCATION AND LITERACY PARTNERSHIPS: A COLLABORATIVE PROJECT OF THE NATIONAL WRITING PROJECT AND THE ASSOCIATION OF SCIENCE-TECHNOLOGY CENTERS	\$356,809	2012
NSF	943385	COLLABORATIVE RESEARCH: PROGRAMMING THE RHIZOSPHERE THROUGH HIGHLY INTEGRATED GENETIC, SPATIO-TEMPORAL CONTROL SYSTEMS	\$591,974	2009
NSF	943383	COLLABORATIVE RESEARCH: ENGINEERING GENETICALLY AUGMENTED POLYMERS (GAPS)	\$490,574	2009
NSF	1403214	COLLABORATIVE RESEARCH: MANIPULATING EPIGENETIC MECHANISMS TO ENHANCE NON-VIRAL TRANSGENE EXPRESSION	\$148,614	2014
NSF	1137269	EFRI:MIKS: NOTCH SIGNALING IN COLON CANCER STEM CELLS	\$2,000,000	2011
NSF	944139	SYNTHETIC AESTHETICS: CONNECTING SYNTHETIC BIOLOGY AND CREATIVE DESIGN	\$244,560	2009

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NSF	1150567	CAREER: TOWARD THE CREATION OF CUSTOM BACTERIAL ORGANELLES FROM ENGINEERED /SALMONELLA/ PDU BACTERIAL MICROCOMPARTMENTS	\$127,672	2012
NSF	1158056	EVOLUTION OF REGULATORY SEQUENCE MOTIFS	\$257,678	2012
NSF	1351443	CAREER: REVISITING THE CENTRAL DOGMA AT THE GENOME SCALE AND IN SINGLE CELLS	\$80,000	2014
NSF	1308672	QUORUM-QUENCHING CATALYSTS	\$400,000	2013
NSF	1038394	DESIGN PRINCIPLES OF BIOCHEMICAL REACTION NETWORKS	\$340,718	2010
NSF	1430986	SBIR PHASE II: AN INTELLIGENT RAPID PROTOTYPING SYSTEM FOR SYNTHETIC BIOLOGY	\$750,000	2014
NSF	1248985	SBIR PHASE I: DIRECTED DNA SYNTHESIS AND ASSEMBLY	\$150,000	2013
NSF	1215583	SBIR PHASE I: A SYNTHETIC BIOLOGY DESIGN-BUILD-TEST PLATFORM FOR AUTOMATED COMBINATORIAL DNA ASSEMBLY	\$150,000	2012

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NSF	1354287	INFORMAL LEARNING AND SCHOLARSHIP IN SCIENCE AND SOCIETY: A MULTI-DISCIPLINARY WORKSHOP ON SCIENTIFIC CREATIVITY AND SOCIETAL RESPONSIBILITY	\$49,997	2014
NSF	1157506	INHIBITION OF PROTEIN-PROTEIN INTERACTIONS	\$260,000	2012
NSF	1344363	INDUSTRIALIZATION OF BIOLOGY: A ROADMAP TO ACCELERATE ADVANCED MANUFACTURING OF CHEMICALS, 500 5TH STREET, N.W., WASHINGTON, DC	\$300,000	2013
NSF	1145698	EXPERIMENTAL PHYLOGENIES TO BENCHMARK ANCESTRAL SEQUENCE RECONSTRUCTION	\$680,000	2012
NSF	1439244	METABOLIC ENGINEERING X CONFERENCE (ME-X) AT THE WESTIN BAYSHORE, VANCOUVER, BRITISH COLUMBIA ON JUNE 15-19, 2014	\$20,000	2014
NSF	1033397	AN INTEGRATED APPROACH FOR GENOME-ENGINEERING	\$417,721	2011
NSF	1263633	I-CORPS: INFORMATION SERVICES FOR BIOLOGICALLY INSPIRED DESIGN	\$49,882	2013
NSF	1265383	THE IPLANT COLLABORATIVE: CYBERINFRASTRUCTURE FOR THE LIFE SCIENCES	\$11,900,000	2013

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NSF	1359578	COLLABORATIVE RESEARCH: PLUG AND PLAY PHOTOSYNTHESIS FOR RUBISCO INDEPENDENT FUELS	\$236,813	2014
NSF	1331173	COLLABORATIVE RESEARCH: NITROPLAST: A LIGHT-DRIVEN, SYNTHETIC NITROGEN-FIXING ORGANELLE	\$358,206	2013
NSF	1067565	A NATIVE PATHWAY FOR THE PRODUCTION OF N-BUTANOL IN ESCHERICHIA COLI: A NEW PARADIGM FOR SYNTHETIC BIOLOGY	\$363,588	2011
NSF	1228570	WORKSHOP: EVOLUTIONARY CELL BIOLOGY, MAY 29-31, 2012, WARRENTON, VIRGINIA	\$99,950	2012
NSF	1331974	STTR PHASE I: METABOLIC ENGINEERING OF PHOTOSYNTHESIS FOR IMPROVED BIOMASS ACCUMULATION	\$223,476	2013
NSF	1263357	NSF REU IN MOLECULAR BIOSCIENCES	\$237,446	2013
NSF	1157627	A WINDOW INTO THE EARLY STEPS IN PLASTID EVOLUTION	\$285,722	2012
NSF	925449	TRANSATLANTIC EXPLORATORY WORKSHOP ON THE IMPLICATIONS OF CUTTING-EDGE BIOTECHNOLOGIES FOR SUSTAINABILITY SCIENCE AND POLICY	\$53,810	2009

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NSF	1347082	2013 TISSUE ENGINEERING & REGENERATIVE MEDICINE INTERNATIONAL SOCIETY (TERMIS) CONFERENCE, NOVEMBER 10-13, 2013, HYATT REGENCY, ATLANTA, GA	\$34,356	2013
NSF	1264708	MECHANISTIC STUDY OF CELLULOSE THROUGH REPROGRAMMING ITS ASSEMBLY	\$307,741	2013
NSF	1445903	WORKSHOP ON RESEARCH AGENDAS IN THE SOCIETAL ASPECTS OF SYNTHETIC BIOLOGY	\$149,924	2014
NSF	1257246	SCIENCE ADVANCED THROUGH VIRTUAL INSTITUTES (SAVI): VIRTUAL INSTITUTE FOR RESPONSIBLE INNOVATION	\$498,452	2013
NSF	750075	GORDON RESEARCH CONFERENCE ON SCIENCE AND TECHNOLOGY POLICY	\$60,000	2008
NSF	1105584	COLLABORATIVE RESEARCH: EXPLOITING PROKARYOTIC PROTEINS TO IMPROVE PLANT PHOTOSYNTHETIC EFFICIENCY	\$675,287	2011
NSF	1421972	SHF: SMALL: DESIGN TOOLS AND THEIR EXPERIMENTAL VALIDATION FOR SYNTHETIC BIOLOGICAL SYSTEMS	\$299,774	2014
NSF	1121748	ENGINEERING A COMPETITIVE ADVANTAGE USING SYNTHETIC BIOLOGY AND MICROFLUIDIC TECHNOLOGY	\$263,326	2011

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NSF	1409402	TOWARD ARTIFICIAL PROTEOMES	\$277,237	2014
NSF	817651	CATALYTICALLY ACTIVE DE NOVO PROTEINS FROM DESIGNED COMBINATORIAL LIBRARIES	\$508,257	2008
NSF	847853	DOCTORAL DISSERTATION RESEARCH: CRAFTING LIFE: A SENSORY ETHNOGRAPHY OF CONSTRUCTIVE BIOLOGIES	\$6,402	2009
NSF	1056035	CAREER: MICROMOSAIC FRAMEWORKS FOR NEXT-GENERATION PROTEOMIC TECHNOLOGY	\$74,450	2011
NSF	1149328	CAREER: VIRTUAL MICROBE: BIOPHYSICAL MODELING OF MORPHOGENESIS	\$362,796	2012
NSF	1005574	2010 FRONTIERS OF ENGINEERING SYMPOSIA (U.S., GERMAN-AMERICAN, AND EU-US)	\$110,000	2010
NSF	945221	SBIR PHASE I: STANDARDIZING MICROBIAL WATER QUALITY MONITORING USING SYNTHETIC BIOLOGY	\$101,684	2010
NSF	1353912	SBIR PHASE II: PRODUCTION OF AN ACYL GLYCINATE SURFACTANT BY FERMENTATION	\$786,000	2014
NSF	1058762	LIFE IN THE GRAY ZONE: GOVERNANCE OF NEW BIOLOGY IN EUROPE, SOUTH KOREA, AND THE UNITED STATES	\$102,928	2011

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NSF	1264526	COLLABORATIVE RESEARCH: IDENTIFICATION OF IMMUNOMODULATORY MICROBIOTA METABOLITES	\$199,998	2013
NSF	846453	CAREER: INTER-KINGDOM SIGNALING AS A PARADIGM FOR MOLECULAR SYSTEMS BIOLOGY	\$400,000	2009
NSF	1413563	COLLABORATIVE RESEARCH: GLYCOENGINEERING WITHOUT BORDERS: BACTERIAL CELL-FREE GLYCOPROTEIN SYNTHESIS	\$300,000	2014
NSF	943393	COLLABORATIVE RESEARCH: ENGINEERING GENETICALLY AUGMENTED POLYMERS (GAPS)	\$576,425	2009
NSF	1132670	BERKELEY ENGINEERING RESEARCH EXPERIENCES FOR IN-SERVICE AND PRE-SERVICE TEACHERS: RET IN ENGINEERING AND COMPUTER SCIENCE SITE	\$309,754	2011
NSF	1359648	COLLABORATIVE RESEARCH: PLUG AND PLAY PHOTOSYNTHESIS FOR RUBISCO INDEPENDENT FUELS	\$465,247	2014
NSF	1353433	VALUES IN IMPACT ASSESSMENT	\$298,942	2014
NSF	922714	CULTURAL COGNITION OF SYNTHETIC BIOLOGY RISKS	\$398,990	2009
NSF	1439418	WORKSHOP: ADVANCED BIOMANUFACTURING, JULY 17-20, 2014, TALLOIRES, FRANCE	\$20,000	2014

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NSF	1158254	COLLABORATIVE RESEARCH: SALT-STRESS REGULATION OF SPATIOTEMPORAL GENE EXPRESSION PATTERNS IN THE ARABIDOPSIS ROOT	\$186,961	2012
NSF	1442724	ERASYNBIO: SYNTHETIC BIOCHEMICAL PATHWAYS FOR EFFICIENT PRODUCTION OF NOVEL BIOFUELS (SYNPATH)	\$589,791	2014
NSF	1330914	SYNTHETIC BIOLOGY OF YEAST	\$2,042,595	2013
NSF	943392	COLLABORATIVE RESEARCH: SYNTHETIC INTEGRONS FOR CONTINUOUS DIRECTED EVOLUTION OF COMPLEX GENETIC ENSEMBLES	\$433,116	2009
NSF	853031	ARS SYNTHETICA - A MULTIMEDIA FORUM EXPLORING THE ARTFUL DESIGN OF LIVING THINGS	\$74,902	2009
NSF	950233	COILED-COIL MODULES FOR MOLECULAR ENGINEERING AND SYNTHETIC BIOLOGY	\$425,000	2010
NSF	1244180	EXPERIMENTAL MODEL SYSTEMS FOR INTRACELLULAR COMPARTMENTALIZATION: DYNAMIC FORMATION/DISASSEMBLY OF MODEL ORGANELLES IN ARTIFICIAL CELLS	\$221,173	2013

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NSF	1147844	COLLABORATIVE: EAGER: A MODEL BASED SYSTEM FOR THE AUTOMATED DESIGN OF SYNTHETIC GENETIC CIRCUITS BY MATHEMATICAL OPTIMIZATION	\$28,902	2011
NSF	1160614	EAGER: ENGINEERING CATALYTIC ACTIVITY INTO THE CARBOXYSOME SHELL	\$138,848	2012
NSF	1105897	COLLABORATIVE RESEARCH: EXPLOITING PROKARYOTIC PROTEINS TO IMPROVE PLANT PHOTOSYNTHETIC EFFICIENCY	\$837,123	2011
NSF	1350949	CAREER: EVOLUTION AND ENGINEERING OF CELLULAR BET-HEDGING DEVICES	\$153,557	2014
NSF	1344188	INSPIRE TRACK 1: MAXIMUM ENTROPY PRODUCTION AND EVOLUTION OF COMPLEX SYSTEMS	\$846,500	2013
NSF	1157089	REU SITE: A PARTNERSHIP OF NSF-FUNDED CENTERS TO ADVANCE CALIFORNIA COMMUNITY COLLEGE STUDENTS IN SCIENCE AND ENGINEERING	\$110,000	2012
NSF	1411949	AN AUXIN TOOLBOX FOR SYNTHETIC MULTICELLULAR SYSTEMS	\$617,237	2014

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1317653	COLLABORATIVE RESEARCH: MOLECULAR PROGRAMMING ARCHITECTURES, ABSTRACTIONS, ALGORITHMS, AND APPLICATIONS	\$800,000	2013
NSF	1002220	ESTIMATION & OBSERVATION OF STOCHASTIC BIOCHEMICAL NETWORKS	\$335,282	2010
NSF	1113071	SBIR PHASE I: ENVIRONMENTAL BIOFILM DECONTAMINATION AND ENHANCED ENERGY EFFICIENCY WITH ENGINEERED PHAGE	\$180,000	2011
NSF	1412442	COMPARATIVE MOLECULAR EVOLUTION OF ANIMAL AND PLANT RNA-INTERFERENCE: BUILDING A GENERAL MODEL OF HOW RNAI FACILITATES COMPLEXITY	\$165,209	2014
NSF	1256420	CONVERGENT EVOLUTION OF COLOR PATTERNS THROUGH CHANGES IN DIFFERENT GENES	\$200,000	2013
NSF	744541	CAREER: A COMPUTATIONAL DESIGN APPROACH FOR PREDICTING AND REENGINEERING PLASTICITY AND SELECTIVITY IN PROTEIN-PROTEIN INTERFACES	\$565,000	2008
NSF	1445112	ERASYNBIO: TECHNOLOGIES TO ENABLE BIOMOLECULAR ORIGAMI	\$458,530	2014

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NSF	1359594	COLLABORATIVE RESEARCH: PLUG AND PLAY PHOTOSYNTHESIS FOR RUBISCO INDEPENDENT FUELS	\$230,000	2014
NSF	1411272	NETWORK GOVERNING SPORULATION DURING MYXOCOCCUS DEVELOPMENT	\$549,998	2014
NSF	1413111	ANALYTICAL REPRESENTATION OF PROTEIN DISTRIBUTIONS IN STOCHASTIC MODELS OF GENE EXPRESSION	\$170,000	2014
NSF	1059173	COLLABORATIVE RESEARCH: CHARACTERIZATION OF LIPO-PEPTIDES FOR USE AS BIO-DISPERSANTS TO CLEAN-UP OIL SPILLS	\$89,988	2010
NSF	1412365	A PLATFORM FOR THE CHO BIOMANUFACTURING SYSTEMS BIOLOGY COMMUNITY	\$800,000	2014
NSF	1264502	COLLABORATIVE RESEARCH: IDENTIFICATION OF IMMUNOMODULATORY MICROBIOTA METABOLITES	\$300,000	2013
NSF	943390	COLLABORATIVE RESEARCH: SYNTHETIC INTEGRONS FOR CONTINUOUS DIRECTED EVOLUTION OF COMPLEX GENETIC ENSEMBLES	\$473,293	2009

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NSF	1152279	IDBR: A WORKSTATION FOR OPTOGENETICS IN EMBRYOGENESIS AND REGENERATION	\$301,279	2012
NSF	1413134	THE DISTRIBUTED REGULATORY NETWORK THAT INTEGRATES LOCAL AND SYSTEMIC SIGNALS TO REGULATE HEAT SHOCK RESPONSE	\$742,738	2014
NSF	1356569	ABI INNOVATION: TOWARDS RECOVERY OF BIOLOGICAL INFORMATION	\$393,684	2014
NSF	1409338	ELUCIDATION OF THE NEWLY DISCOVERED METHANE FERMENTATION PATHWAY BY SYSTEMS-LEVEL APPROACHES	\$371,907	2014
NSF	1055227	CAREER: DESIGN AND CONSTRUCTION OF A SYNTHETIC FUNGUS-BACTERIUM CONSORTIUM FOR EFFICIENT CELLULOSIC BIOFUEL PRODUCTION	\$412,500	2011
NSF	1105511	COLLABORATIVE RESEARCH: EXPLOITING PROKARYOTIC PROTEINS TO IMPROVE PLANT PHOTOSYNTHETIC EFFICIENCY	\$368,728	2011
NSF	1411482	A MECHANISTIC MODELING FRAMEWORK TO LINK BIOCHEMICAL NETWORK SIGNALING AND CELL-DECISION PROCESSES	\$844,260	2014

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NSF	1350625	CAREER: DECIPHERING AND ENGINEERING BIOLOGICAL STATE MACHINES WITH SYNTHETIC BIOLOGY	\$137,364	2014
NSF	1124247	NEB: INTEGRATED BIOLOGICAL AND ELECTRONIC COMPUTATION AT THE NANOSCALE	\$1,650,000	2011
NSF	1402843	DYNAMIC CONTROL OF GLYCAN BIOSYNTHESIS WITH SYNTHETIC RNA CIRCUITRY	\$225,000	2014
NSF	1445726	EAGER: DYNAMIC FLUX CONTROL ENABLED BY SYNTHETIC METABOLIC VALVES	\$299,256	2014
NSF	846618	CAREER: INTEGRATED MICROSYSTEMS FOR SYNTHETIC BIOLOGY	\$400,000	2009
NSF	967062	COMPUTATIONAL MODELING AND DESIGN OF CYTOCHROME P450 REACTIVITY AND SUBSTRATE SPECIFICITY	\$393,000	2010
NSF	967750	ULTRA-HIGH-THROUGHPUT BIOSENSING OF MICROORGANISMS FOR EFFICIENT BIOFUEL PRODUCTION	\$84,095	2010
NSF	923691	STUDENTS PARTICIPATION FOR EMERGENCE IN CHEMICAL SYSTEMS 2.0 CONFERENCE	\$8,849	2009
NSF	1330180	A QUEUEING FRAMEWORK FOR SYNTHETIC CIRCUITS IN E. COLI	\$961,252	2013

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1359575	COLLABORATIVE RESEARCH: PLUG AND PLAY PHOTOSYNTHESIS FOR RUBISCO INDEPENDENT FUELS	\$207,810	2014
NSF	1413062	SYNTHETIC ENTOMOLOGY	\$676,771	2014
NSF	1445470	EAGER: A SYSTEMS BIOLOGY BASED MATHEMATICAL ABSTRACTION FOR PROGRAMMING ENGINEERED MICROBES	\$300,000	2014
NSF	838748	OPPORTUNITIES AND CHALLENGES FOR THE EMERGING FIELD OF SYNTHETIC BIOLOGY	\$99,697	2009
NSF	1150768	EAGER: TEMPLATED SYNTHESIS OF PROTEIN CONJUGATES	\$180,000	2012
NSF	1321771	SB6.0: THE 6TH INTERNATIONAL MEETING ON SYNTHETIC BIOLOGY (JULY 9-11, 2013, IMPERIAL COLLEGE, LONDON, UK)	\$19,900	2013
NSF	1126366	MRI: ACQUISITION OF FACSARIA-II, A NEXT-GENERATION HIGH-SPEED CELL SORTER FOR A FLOW CYTOMETRY CORE SUPPORTING INTERDISCIPLINARY RESEARCH AND TRAINING	\$384,586	2011
NSF	1005915	GORDON RESEARCH CONFERENCE ON SINGLE-MOLECULE APPROACHES TO BIOLOGY	\$10,000	2010

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NSF	1350498	CAREER: ENGINEERING BIOLOGICAL ROBUSTNESS THROUGH SYNTHETIC CONTROL	\$400,000	2014
NSF	934074	WORKSHOP ON MINIMAL LIFE; ARLINGTON, VA, AUGUST 2009	\$49,994	2009
NSF	1146575	SIGNAL MOLECULES IN CTENOPHORES: QUEST FOR THE EARLIEST NEUROTRANSMITTERS	\$160,000	2012
NSF	1356041	COLLABORATIVE: ABI DEVELOPMENT: SYNTHETIC BIOLOGY OPEN LANGUAGE RESOURCE	\$444,527	2014
NSF	1447689	STUDENT TRAVEL SUPPORT FOR HARMONY 2015	\$10,000	2014
NSF	916042	CIF:SMALL:COLLABORATIVE: SOFT-LOGIC MODELING AND DESIGN FOR SYNTHETIC BIOLOGY	\$262,000	2009
NSF	903894	COLLABORATIVE RESEARCH: ENGINEERING YEAST CONSORTIA FOR SURFACE-DISPLAY OF COMPLEX CELLULOSE STRUCTURES: A CONSOLIDATED BIOPROCESSING APPROACH FROM CELLULOSIC BIOMASS TO ETHANOL	\$612,000	2009

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NSF	1322298	ICOB:COLLABORATIVE RESEARCH:RUI: GENERATING COMPLEXITY: INTEGRATING EXPERIMENTAL AND COMPUTER MODELING APPROACHES TO LINK GENES AND CELL BEHAVIOR IN ARTHROPOD SEGMENTATION	\$421,000	2013
NSF	1417876	QUANTITATIVE AND GENETIC APPROACHES TO MICROBIAL DIVERSITY	\$145,000	2014
NSF	1346576	RCN-UBE INCUBATOR: DEVELOPMENT OF A BUILD-A- GENOME NETWORK TO TEACH SYNTHETIC BIOLOGY AT DIVERSE UNDERGRADUATE INSTITUTIONS	\$50,000	2014
NSF	1263905	SUSCHEM: ENGINEERING E. COLI FOR IMPROVED PRODUCTION OF POLYHYDROXYALKANOATE (PHA)- BASED BIODEGRADABLE PLASTICS	\$500,000	2013
NSF	1057955	NSF WORKSHOP ON BIOLOGICALLY ENABLED WIRELESS NETWORKS	\$94,511	2010
NSF	1059174	COLLABORATIVE RESEARCH: CHARACTERIZATION OF LIPO- PEPTIDES FOR USE AS BIO- DISPERSANTS TO CLEAN-UP OIL SPILLS	\$79,080	2010
NSF	935932	"SANDPIT" TO ADDRESS GRAND CHALLENGE TOPICS IN SYNTHETIC BIOLOGY	\$24,090	2009

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NSF	1241332	INSPIRE: MOLECULAR UNDERPINNINGS OF BACTERIAL DECISION-MAKING	\$1,000,000	2012
NSF	1413437	DELAY DYNAMICS: BIOCHEMICAL IMPORTANCE, LARGE DEVIATIONS, AND STATISTICAL COHERENCE	\$188,000	2014
NSF	1337431	CREATING A RESEARCH AGENDA FOR THE ECOLOGICAL IMPLICATIONS OF SYNTHETIC BIOLOGY	\$223,916	2013
NSF	1255250	CAREER: A ROUTE TO SYNTHETIC CELLS	\$637,564	2013
NSF	1451429	WORKSHOP: INDO-US WORKSHOP ON SYNTHETIC AND SYSTEMS BIOLOGY	\$49,448	2014
NSF	1331194	DESIGNING NITROGEN FIXING ABILITY IN OXYGENIC PHOTOSYNTHETIC CELLS	\$1,556,102	2013
NSF	1341910	CONFERENCE: 11TH WORKSHOP ON CYANOBACTERIA; AUGUST 7-11, 2013 AT WASHINGTON UNIVERSITY, ST. LOUIS	\$15,314	2013
NSF	1138387	ABI WORKSHOP: BIOCOMPUTING TO BE HELD 12-13TH OF SEPT AT THE NATIONAL INSTITUTE OF TECHNOLOGY IN CALICUT, KERALA,INDIA	\$23,600	2011
NSF	1254415	CAREER: NANOSTRUCTURED THIN FILMS FOR SUBSTRATE-MEDIATED GENE DELIVERY	\$419,051	2013

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1418874	EAGER: ALGORITHMS FOR SYNTHETIC GENE LIBRARY DESIGN	\$199,999	2014
NSF	1348275	EAGER: ALGORITHMS FOR SYNTHETIC GENE LIBRARY DESIGN	\$199,999	2013
NSF	1423407	SHF: SMALL: ADVANCED DIGITAL SIGNAL PROCESSING WITH DNA	\$400,000	2014
NSF	1117168	SHF: SMALL :DIGITAL SIGNAL PROCESSING WITH BIOMOLECULAR REACTIONS	\$400,000	2011
NSF	1264051	TEMPERATURE DEPENDENT SUBCELLULAR LOCALIZATION	\$300,000	2013
NSF	943343	COLLABORATIVE RESEARCH: CYBERPLASM - AN AUTONOMOUS MICRO-ROBOT CONSTRUCTED USING SYNTHETIC BIOLOGY	\$765,488	2009
NSF	1060776	PROTOTYPING GENOTHREAT A BIOSECURITY SOLUTION FOR SYNTHETIC GENOMICS	\$99,819	2010
NSF	850100	GENOCAD: A COMPUTER ASSISTED DESIGN ENVIRONMENT FOR SYNTHETIC BIOLOGY	\$1,421,725	2009
NSF	1336236	SUSCHEM: METABOLIC ANALYSIS AND OPTIMIZATION OF BIOFUEL PRODUCTION DURING LIGHT-DARK CYCLES IN SYNECHOCYSTIS	\$492,852	2013

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1331098	ENGINEERING SYNTHETIC SYMBIOSIS BETWEEN PLANT AND BACTERIA TO DELIVER NITROGEN TO CROPS	\$2,428,571	2013
NSF	1149678	CAREER: INTEGRATING CHEMICAL AND BIOLOGICAL CATALYSIS FOR THE SUSTAINABLE PRODUCTION OF BIOFUELS AND COMMODITY CHEMICALS	\$106,136	2012
NSF	1240268	EFRI-PSBR: CYANOBACTERIAL BIOREFINERIES	\$2,000,000	2012
NSF	1449014	EAGER: TELEPATHY: TELECOMMUNICATION SYSTEMS MODELING AND ENGINEERING OF CELL COMMUNICATION PATHWAYS	\$300,000	2014
NSF	1339156	POLYPLOIDY AND PLASTICITY IN THE CROP BRASSICAS	\$2,179,716	2014
NSF	1214339	SBIR PHASE I: ENGINEERING MICROBIAL BIOSYNTHESIS OF A NON-CALORIC NATURAL SWEETENER	\$150,000	2012
NSF	1212940	HCC: LARGE: COLLABORATIVE RESEARCH: DNA MACHINE BUILDER: CREATIVE MOLECULAR-MACHINE DESIGN THROUGH MASS-SCALE CROWDSOURCING	\$1,909,246	2012

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1238987	CAREER: SYSTEMS BIOLOGY AND ENGINEERING OF CLOSTRIDIUM BEIJERINCKII FOR ENHANCE BUTANOL PRODUCTION	\$250,747	2012
NSF	846964	CAREER: SYSTEMS BIOLOGY AND ENGINEERING OF CLOSTRIDIUM BEIJERINCKII FOR ENHANCE BUTANOL PRODUCTION	\$400,000	2009
NSF	1150645	CAREER: VIRTUAL, HIGH-THROUGHPUT MODEL OF BRAIN MICROVASCULATURE REGENERATION	\$435,097	2012
NSF	1026087	BIOS TECHNIKA: A WEB-BASED PLATFORM FOR MULTIMEDIA INQUIRY IN ANTHROPOLOGY, SYNTHETIC BIOLOGY, AND ETHICS	\$292,233	2010
NSF	1344267	INSPIRE TRACK 1: MULTIFUNCTIONAL INTERFACES FOR RESPONSIVE MATERIALS	\$830,000	2013
NSF	1236974	CONFERENCE: EXPLORING FRONTIERS IN SYNTHETIC BIOLOGY; TO BE HELD MAY 15-16, 2012 IN HEIDELBERG, GERMANY	\$49,895	2012
NSF	941078	REAL-TIME COUPLING OF GENE NETWORKS IN SINGLE CELLS	\$100,000	2009

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NSF	1144433	WORKSHOPS ON BASIC RESEARCH NEEDS FOR BIOFUEL PRODUCTION FROM PHOTOSYNTHETIC MICROORGANISMS; FALL 2011, WASHINGTON D.C.	\$34,994	2011
NSF	1413044	SYNTHETIC GENETIC REGULATORY NETWORKS TO STUDY EMERGENT PROPERTIES OF DEVELOPMENT	\$524,481	2014
NSF	1404084	COLLABORATIVE RESEARCH: MANIPULATING EPIGENETIC MECHANISMS TO ENHANCE NON-VIRAL TRANSGENE EXPRESSION	\$426,386	2014
NSF	960533	PREDICTION MARKETS - AN EXPERIMENTAL APPLICATION TO SYNTHETIC BIOLOGY	\$25,000	2009
NSF	1137186	EFRI-MIKS: DECIPHERING AND CONTROLLING THE SIGNALING PROCESSES IN BACTERIAL MULTICELLULAR SYSTEMS AND BACTERIA-HOST INTERACTIONS	\$2,000,000	2011
NSF	845650	CAREER: COMPUTING WITH THINGS SMALL, WET, AND RANDOM - DESIGN AUTOMATION FOR DIGITAL COMPUTATION WITH NANOSCALE TECHNOLOGIES AND BIOLOGICAL PROCESSES	\$500,000	2009

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	937721	EFRI HYBI: ALGAL OILS TO "DROP-IN" REPLACEMENTS FOR PETROLEUM-DERIVED TRANSPORTATION FUELS	\$1,999,172	2009
NSF	1443406	GPG: COLLABORATIVE RESEARCH: REU PILOT: SYNTHETIC BIOLOGY BOOTCAMP	\$33,689	2014
NSF	1038781	A PERIODIC TABLE OF PROTEIN DOMAINS	\$250,002	2010
NSF	1302852	MOVING WORKSHOP IN SYNTHETIC BIOLOGY TO BE HELD IN BOSTON, METRO DC AND SAN FRANCISCO FROM NOVEMBER 6-13, 2012	\$29,160	2013
NSF	1350178	CAREER: TOWARDS SYNTHETIC BIOLOGY IN HUMAN STEM CELLS	\$98,000	2014
NSF	1253641	CAREER: MODEL-GUIDED OPTIMIZATION AND AUTONOMOUS CONTROL OF A SYNTHETIC BIODETOXIFICATION PATHWAY FOR HARNESSING LIGNOCELLULOSIC FEEDSTOCK	\$82,338	2013
NSF	1414483	CAREER: ENGINEERING BIOMOLECULES AND CELLS FOR ORAL PROTEIN DELIVERY	\$238,304	2014
NSF	1414482	EAGER: FUNCTIONAL INTEGRATION OF SYNTHETIC KINASES INTO ENDOGENOUS SIGNALING NETWORKS	\$156,650	2014

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1154509	EAGER: FUNCTIONAL INTEGRATION OF SYNTHETIC KINASES INTO ENDOGENOUS SIGNALING NETWORKS	\$150,000	2012
NSF	1055231	CAREER: ENGINEERING BIOMOLECULES AND CELLS FOR ORAL PROTEIN DELIVERY	\$155,149	2011
NSF	1348519	EAGER: HYBRID ANALOG-DIGITAL AUTOMATA IN MICROBIAL CELLS	\$300,000	2013
NSF	1332250	EFRI-BIOFLEX: A FLEXIBLE GLUCOSE FUEL CELL	\$2,000,000	2013
NSF	1355909	COLLABORATIVE: ABI DEVELOPMENT: SYNTHETIC BIOLOGY OPEN LANGUAGE RESOURCE	\$772,192	2014
NSF	1158573	CHARACTERIZING AND ENGINEERING CELLULAR NETWORKS USING STOCHASTIC MEASUREMENTS	\$546,371	2012
NSF	1415608	THE ETHICS OF COMMUNICATING SCIENTIFIC UNCERTAINTY: UNDERSTANDING HOW SCIENTISTS, ENVIRONMENTAL LAWYERS, AND REPORTERS TREAT UNCERTAINTY	\$89,749	2014
NSF	1417750	UNDERSTANDING GENE REGULATORY NETWORKS IN HYPERSALINE-ADAPTED ARCHAEA: TOWARD SYNTHETIC BIOLOGY FOR INDUSTRIAL APPLICATIONS	\$454,869	2014

Agency	Project ID	Project Title	Funding Level	Fiscal Year
NSF	1264429	ENGINEERED PROTEIN NANOCOMPARTMENTS FOR IN VIVO AND IN VITRO MULTI-STEP ENZYME CATALYSIS	\$380,186	2013
NSF	1235714	DESIGN OF A BACTERIAL CONSORTIUM FOR CONSOLIDATED BIOPROCESSING	\$340,146	2012
NSF	1158553	COLLABORATIVE RESEARCH: SHORT-CIRCUITING IN BACTERIAL QUORUM SENSING	\$504,525	2012
NSF	1117143	SHF: SMALL: PROGRAMMING NETWORKS OF MOLECULAR INTERACTIONS USING DNA STRAND-DISPLACEMENT CASCADES	\$429,999	2011
NSF	954566	CAREER: NUCLEIC ACID CIRCUITRY FOR PROGRAMMING GENE EXPRESSION	\$453,000	2010
NSF	1159640	ENHANCING THE INNATE CELLULAR DEGRADATION CAPACITY	\$339,700	2012
NSF	1264348	PRODUCTION OF THE BUILDING-BLOCK 2-PYRROLIDONE USING A MODEL-GUIDED PLATFORM FOR DE NOVO BIOSYNTHETIC PATHWAY INTEGRATION	\$71,655	2013
NSF	1149530	CAREER: ADVANCING INNOVATION IN BIO-DESIGN THROUGH REALITY-BASED INTERACTION	\$166,066	2012

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NSF	1350659	CAREER: THE VERSATILITY OF MICRORNA REGULATION	\$80,000	2014
NSF	1003426	SBIR PHASE IB: VOLATILE GENE EXPRESSION REPORTERS FOR USE DURING FERMENTATION	\$49,989	2010
NSF	912541	SBIR PHASE I: VOLATILE GENE EXPRESSION REPORTERS FOR USE DURING FERMENTATION	\$99,981	2009
NSF	1345173	CHARACTERIZATION OF BIOMOLECULAR RESPONSE TO ENVIRONMENTAL STRESS	\$991,206	2014
NSF	1136913	EFRI-MIKS: MULTISCALE ANALYSIS OF MORPHOGEN GRADIENTS	\$2,000,000	2011
NSF	1409586	MICROBIAL CONTROL OF CARBON FIXATION	\$300,000	2014
NSF	1264509	AN INTEGRATED APPROACH, USING BIOFABRICATION AND CHEMICAL SYNTHESIS, TO STUDY CELL SIGNALING	\$400,000	2013
NSF	1307218	NEW RECEPTORS FOR SIGNALING BACTERIAL NUCLEOTIDES	\$400,000	2013
NSF	1355990	ABI INNOVATION: SEQUENCE OPTIMIZATION FOR SYNTHETIC BIOLOGY	\$499,881	2014
NSF	1060572	ABI INNOVATION: SYNTHETIC SEQUENCE DESIGNS FOR REAL BIOLOGY	\$497,915	2011

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NSF	1066100	MICROBIAL PLATFORMS AND TOOLS FOR BENZYLISOQUINOLINE ALKALOID BIOSYNTHESIS	\$130,257	2011
NSF	943269	COLLABORATIVE RESEARCH: PROGRAMMING THE RHIZOSPHERE THROUGH HIGHLY INTEGRATED GENETIC, SPATIO-TEMPORAL CONTROL SYSTEMS	\$300,000	2009
NSF	1059170	COLLABORATIVE RESEARCH: CHARACTERIZATION OF LIPO-PEPTIDES FOR USE AS BIO-DISPERSANTS TO CLEAN-UP OIL SPILLS	\$30,025	2010
NSF	1134115	IDENTIFICATION OF METABOLIC ENGINEERING TARGETS IN C4 CARBON ASSIMILATION, AN EFFICIENT PHOTOSYNTHETIC PATHWAY IN A MARINE DIATOM	\$162,971	2012
NSF	1254382	CAREER: AN INTEGRATED, METABOLOMICS-BASED METHOD FOR METABOLIC ENGINEERING	\$104,119	2013
NSF	1144012	EAGER: SYNTHETIC BIOLOGY APPROACH TO CREATING AN ARTIFICIAL ELECTROCYTE	\$150,000	2011
NSF	1106056	SYMPOSIUM ON MECHANICS OF DEVELOPMENT, FARMINGTON, PENNSYLVANIA, JUNE 21, 2011	\$10,000	2011
NSF	1137266	EFRI-MKS: HARNESSING INTERCELLULAR SIGNALING TO ENGINEER PATTERN FORMATION	\$1,999,997	2011

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NSF	1122046	MOLECULAR DETERMINANTS OF BACTERIAL CORRINOID SPECIFICITY	\$185,769	2011
NSF	1254205	CAREER: INTEGRATIVE SYNTHETIC BIOLOGY: A SCALABLE FRAMEWORK FOR MODULAR MULTILEVEL DESIGN	\$364,978	2013
NSF	1146926	COLLABORATIVE:EAGER: A MODEL BASED SYSTEM FOR THE AUTOMATED DESIGN OF SYNTHETIC GENETIC CIRCUITS BY MATHEMATICAL OPTIMIZATION	\$287,100	2011
NSF	804183	ROBUSTNESS IN BIOLOGICAL NETWORKS	\$360,000	2008
NSF	954016	CAREER: DEVELOPMENT OF 13C-ASSISTED METABOLIC FLUX ANALYSIS TOOLS FOR METABOLIC ENGINEERING OF CYANOBACTERIA	\$300,002	2010
NSF	1129098	EMT/BSSE SYNTHETIC BIOLOGICAL INTEGRATED CIRCUITS FOR COMPUTING	\$199,107	2011
NSF	829900	EMT/BSSE SYNTHETIC BIOLOGICAL INTEGRATED CIRCUITS FOR COMPUTING	\$250,893	2008
NSF	1443357	COLLABORATIVE RESEARCH: REU PILOT: SYNTHETIC BIOLOGY BOOTCAMP	\$38,777	2014

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NSF	1419009	CONFERENCE: 25TH INTERNATIONAL CONFERENCE ON ARABIDOPSIS RESEARCH TO BE HELD JULY 28-AUGUST 1, 2014 AT THE UNIVERSITY OF BRITISH COLUMBIA IN VANCOUVER, CANADA	\$46,950	2014
NSF	1360867	EAGER: ENABLING DIRECT MICROBIAL BIOTRANSFORMATION OF METHANE AND DERIVED METHANOL TO VALUABLE BIOCHEMICALS AND BIOFUELS BY YARROWIA LIPOLYTICA	\$197,046	2014
NSF	1110151	BREAD: TOWARD DEVELOPMENT OF A VACCINE FOR CONTAGIOUS BOVINE PLEUROPNEUMONIA (CBPP)	\$739,756	2012
NSF	1058127	CIF: MEDIUM: COLLABORATIVE RESEARCH: FROM RETROACTIVITY TO MODULARITY: DESIGN AND IMPLEMENTATION OF A GENETIC INSULATION DEVICE IN YEAST	\$347,875	2010
NSF	1321575	STTR PHASE I: MICROBIAL PRODUCTION OF CATECHINS	\$224,999	2013

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NSF	1446280	SYNTHETIC BIOLOGY: ENGINEERING, EVOLUTION AND DESIGN (SEED) CONFERENCE 2014; LOS ANGELES, MANHATTEN BEACH MARRIOTT CONFERENCE CENTER, CA, JULY 14-17, 2014	\$25,000	2014
NSF	1341255	CONFERENCE: GORDON CONFERENCE ON SYNTHETIC BIOLOGY: (RE-CONSTRUCTING AND RE-PROGRAMMING LIFE AT MOUNT SNOW RESORT, VERMONT	\$15,680	2013
NSF	1331195	COLLABORATIVE RESEARCH: NITROPLAST: A LIGHT-DRIVEN, SYNTHETIC NITROGEN-FIXING ORGANELLE	\$345,347	2013
NSF	1224898	COLLABORATIVE RESEARCH: CYBERPLASM - AN AUTONOMOUS MICRO-ROBOT CONSTRUCTED USING SYNTHETIC BIOLOGY	\$234,113	2012
NSF	943302	COLLABORATIVE RESEARCH: CYBERPLASM - AN AUTONOMOUS MICRO-ROBOT CONSTRUCTED USING SYNTHETIC BIOLOGY	\$419,747	2009

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NSF	1256775	INTERNATIONAL CONFERENCE: FRONTIERS IN SYSTEMS AND SYNTHETIC BIOLOGY IN ATLANTA, GEORGIA MARCH 20-24, 2013	\$25,500	2012
NSF	1100309	MATHEMATICS OF SYNTHETIC GENE NETWORKS	\$331,315	2011
NSF	1344298	INSPIRE TRACK 1: PROTOCELLS AS A PLATFORM FOR BOTTOM-UP SYNTHETIC BIOLOGY	\$805,482	2013
NSF	1352040	CAREER: ELUCIDATING THE MECHANISM AND ROLE OF GLOBIN- COUPLED SENSOR SIGNALING	\$600,000	2014
NSF	968682	CAREER: ARTIFICIAL PATTERN FORMATION WITH SYNTHETIC GENE NETWORKS	\$104,029	2010
NSF	964646	CIF: MEDIUM: COLLABORATIVE RESEARCH: FROM RETROACTIVITY TO MODULARITY: DESIGN AND IMPLEMENTATION OF A GENETIC INSULATION DEVICE IN YEAST	\$331,875	2010
NSF	1239374	METABOLIC ENGINEERING IX CONFERENCE, JUNE 3-7, 2012, BIARRITZ, FRANCE	\$20,000	2012
NSF	1254238	CAREER: PROGRAMMING PROTEINS BY DEEP SEQUENCING AND DESIGN	\$81,549	2013

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NSF	1151896	SBIR PHASE II: COMMERCIAL SCALE PRODUCTION OF SYNTHETIC SPIDER SILK FIBERS	\$500,000	2012
NSF	1013948	SBIR PHASE I: HIGH PERFORMANCE BALLISTICS FIBERS FROM SPIDER'S SILK	\$175,000	2010
NSF	825686	IGMS: DYNAMIC MODELS IN SYNTHETIC BIOLOGY	\$99,964	2009
NSF	1322350	ICOB:COLLABORATIVE RESEARCH:RUI: GENERATING COMPLEXITY: INTEGRATING EXPERIMENTAL AND COMPUTER MODELING APPROACHES TO LINK GENES AND CELL BEHAVIOR IN ARTHROPOD SEGMENTATION	\$488,877	2013
NSF	1340383	SPEAKER SUPPORT FOR WORKSHOP ON ADVANCES IN MOLECULAR PROGRAMMING AND COMPUTING	\$27,615	2013
NSF	1317694	COLLABORATIVE RESEARCH: MOLECULAR PROGRAMMING ARCHITECTURES, ABSTRACTIONS, ALGORITHMS, AND APPLICATIONS	\$2,000,000	2013
NSF	1213127	HCC: LARGE: COLLABORATIVE RESEARCH: DNA MACHINE BUILDER: CREATIVE MOLECULAR-MACHINE DESIGN THROUGH MASS-SCALE CROWDSOURCING	\$457,717	2012

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NSF	1344191	INSPIRE TRACK 1: RESOLVING AND OPTOGENETICALLY PERTURBING BIOFILMS AT THE SINGLE-CELL LEVEL	\$650,000	2014
NSF	916105	CIF:SMALL:COLLABORATIVE: SOFT-LOGIC MODELING AND DESIGN FOR SYNTHETIC BIOLOGY	\$222,188	2009
NSF	1449714	MEETING: KEYSTONE SYMPOSIA ON "PRECISION GENOME ENGINEERING" TO BE HELD IN BIG SKY, MT FROM JANUARY 11-16, 2015	\$16,200	2014
NSF	1348958	MEETING: KEYSTONE SYMPOSIA ON "PLANT SIGNALING: DYNAMIC PROPERTIES" TO BE HELD IN BRECKENRIDGE, CO FROM FEBRUARY 5-10, 2014	\$10,800	2014
NSF	1265353	CONFERENCE: KEYSTONE SYMPOSIUM ON "PRECISION GENOME ENGINEERING AND SYNTHETIC BIOLOGY" TO BE HELD IN BRECKENRIDGE, CO FROM MARCH 17-22, 2013	\$8,400	2013
NSF	1402222	NSF POSTDOCTORAL FELLOWSHIP IN BIOLOGY FY 2014	\$138,000	2014
NSF	1346317	STTR PHASE I: MODULATING ANTENNA SIZE TO INCREASE CANOPY PHOTOSYNTHESIS AND CROP YIELD POTENTIAL	\$224,170	2014
NSF	1252443	STUDENT AND POSTDOC TRAVEL SUPPORT FOR DNA19	\$21,000	2012

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NSF	1335856	MICROBIAL CONVERSION OF LIGNOCELLULOSIC BIOMASS INTO 1-PROPANOL AND 2-BUTANOL	\$300,000	2013
NSF	1317291	COLLABORATIVE RESEARCH: MOLECULAR PROGRAMMING ARCHITECTURES, ABSTRACTIONS, ALGORITHMS, AND APPLICATIONS	\$800,000	2013
NSF	1016357	SHF: SMALL: EVOLVABILITY AND ROBUSTNESS OF SYNTHETIC GENE CIRCUITS IN BACTERIA	\$450,000	2010
NSF	1412459	A SYNTHETIC-BIOLOGY APPROACH TO STUDY SCALING PROPERTIES OF SELF-ORGANIZED PATTERNS	\$577,117	2014
NSF	953202	CAREER:ENGINEERING MICROBIAL SWARMBOTS	\$400,000	2010
NSF	828630	DELIVERY OF BACTERIAL THERAPEUTICS TO SOLID TUMORS	\$240,000	2008
NSF	1321578	STTR PHASE I: SYNTHETIC BIOLOGY 2.0: A PLATFORM FOR THE AUTOMATED DESIGN OF CELL FACTORIES INCORPORATING SYNTHETIC ENZYMES	\$225,000	2013
NSF	1214895	SBIR PHASE I: HIGH-POWER AND HIGH-ENERGY-DENSITY ENZYMATIC FUEL CELL THROUGH AN IN VITRO SYNTHETIC ENZYMATIC PATHWAY	\$150,000	2012

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NSF	1256635	SBIR PHASE II: ONE-STEP PRODUCTION OF LACTIC ACID FROM LIGNOCELLULOSIC BIOMASS BY RECOMBINANT CELLULOLYTIC BACILLUS SUBTILIS	\$437,163	2013
NSF	1340534	INTERNATIONAL CONFERENCE ON BIOCHEMICAL AND MOLECULAR ENGINEERING XVIII - BEIJING, CHINA, JUNE 10-16, 2013	\$25,000	2013
USDA	WIS04756	Metabolic Engineering for Improved Cellulose and Hemicellulose Fermentations by Yeasts		2003
USDA	ILLU-741-308	Bioinformatics and Nanotechnology Applications in Biological Systems	\$41,441	2005
USDA	CA-B-PLB-0053-RR	Regulation of Photosynthetic Processes		2007
USDA	MICL03459	Animal Bioethics	Salary funding, amount unknown	2007
USDA	CA-B-PLB-7163-H	Photosynthesis and Photo-Oxidative Stress Responses	Salary funding, amount unknown	2008
USDA	NC09785	Dampening Ros Metabolism: Increasing Biomass Production and Decreasing the Switch to Secondary Metabolism		2008

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USDA	TEN02008-03208	Phytosensors for Crop Security	\$694,492	2008
USDA	TEXX-CUERO	DNA Sensor for Detecting Nutritional Status of Agricultural Soils		2008
USDA	MICL01940	Regulation of Lipid Metabolism in Plants and Algae	\$600,000	2009
USDA	MICL02197	Ethical Issues In Agriculture	\$4,132	2009
USDA	SD00H348-09	Engineering Cyanobacteria as a Factory to Produce Biofuels and High Value Chemical	\$791,947	2009
USDA	TEN02009-05030	Phytosensors for Crop Security and Precision Agriculture	\$652,601	2009
USDA	MICL02197	Ethical Issues In Agriculture	\$3,818	2010
USDA	WISR-2009-02200	Metabolic Engineering of Yeasts for Improved Xylose and Cellulose Fermentation	\$442,040	2010
USDA	ILLU-802-385	Control of Gene Expression in Crops: Discovery Research Using High Performance Computing, Enumerative Analysis and Machine Learning		2010
USDA	IND011283	The Regulation of Reproductive Organ Development Across Seed Plants	\$47,174	2010
USDA	MDW-2010-04991	Nanoscience and Technology Progress and Opportunity: Agricultural Aspects	\$5,000	2010
USDA	PEN04409	Integrated Bioprocessing Systems for Natural and Modified Microorganisms	\$100,000	2010
USDA	MICL02197	Ethical Issues In Agriculture	\$4,711	2011

Agency	Project ID	Project Title	Funding Level	Fiscal Year
USDA	IND011283	The Regulation of Reproductive Organ Development Across Seed Plants	\$39,891	2011
USDA	COL0-2010-05115	Plant-Based Detection of Food Safety Pathogens	\$130,000	2011
USDA	RIW-2010-05051	2011 Plant Metabolic Engineering GRC/GRS	\$20,000	2011
USDA	0223292	Integrated Bioprocessing Systems for Natural and Modified Microorganisms	\$44,398	2011
USDA	MICL02197	Ethical Issues In Agriculture	\$6,848	2012
USDA	IND011283	The Regulation of Reproductive Organ Development Across Seed Plants	\$11,956	2012
USDA	CA-R-BPS-7009-H	Agricultural Sustainability Through Biotechnology		2012
USDA	WIS01659	Construction of a Lactobacillus Casei Strain Capable of Utilizing Cellulose-Derived Oligosaccharides	\$999,875	2012
USDA	0223292	Integrated Bioprocessing Systems for Natural and Modified Microorganisms	\$43,038	2012
USDA	MICL02197	Ethical Issues In Agriculture	\$5,759	2013
USDA	CALW-2013-00182	Microbial Production of Polymer Precursors		2013
USDA	MICW-2013-00050	Development of a Novel Biocatalytic Fatty Acid Decarboxylation Technology for Production of Liquid Biofuels		2013

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USDA	TEN00451	Sustainable Synthetic Biology and Biotechnology for Improving Plants		2013
USDA	TEN2013-03566	Switchgrass Bioconfinement: Delayed Flowering, Selective Male- and Seed-Sterility, and Conditional Total Bioconfinement	\$500,000	2013
USDA	TEX0-1-8832	Molecular Biology of Plant Pathogenic Bacteria and New Approaches to Disease Control	Salary funding, amount unknown	2013
USDA	0223292	Integrated Bioprocessing Systems for Natural and Modified Microorganisms	\$36,355	2013
USDA	CALK-2014-00453	Production of Organic Acids from Crude Glycerol in Industrial Yeast Hosts	\$100,000	2014
USDA	TEX09316	Synthetic Design of Microorganisms for Integrated Consolidated Processes of Low Lignin Sorghum Feedstock		2014
Navy	PE 0602236N 0000	BIOCENTRIC TECHNOLOGIES	\$5,011,000	2010
Navy	PE 0602236N 0000	BIOCENTRIC TECHNOLOGIES	\$5,596,000	2011
Navy	PE 0602236N 0000	BIOCENTRIC TECHNOLOGIES	\$5,084,000	2012
Navy	PE 0602236N 0000	BIOCENTRIC TECHNOLOGIES	\$6,116,000	2013
Navy	PE 0602236N 0000	BIOCENTRIC TECHNOLOGIES	\$6,470,000	2014
Navy	PE 0601153N 0000	MEDICAL/BIOLOGY	\$16,365,000	2010
Navy	PE 0601153N 0000	MEDICAL/BIOLOGY	\$18,820,000	2011
Navy	PE 0601153N 0000	MEDICAL/BIOLOGY	\$19,937,000	2012
Navy	PE 0601153N 0000	MEDICAL/BIOLOGY	\$18,863,000	2013

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Navy	PE 0601153N 0000	MEDICAL/BIOLOGY	\$20,611,000	2014
Office of Secretary of Defense (OSD)	PE 0602234D8Z P534	Technical Initiatives	\$8,613,000	2011
Office of Secretary of Defense (OSD)	PE 0602234D8Z P534	Technical Initiatives	\$8,000,000	2012
Office of Secretary of Defense (OSD)	PE 0602234D8Z P534	Technical Initiatives	\$9,239,000	2013
Office of Secretary of Defense (OSD)	PE 0602234D8Z P534	Technical Initiatives	\$17,402,000	2014
Army	PE 0601101A	Edgewood Chemical Biological Center	\$898,000	2010
Army	PE 0601101A	Edgewood Chemical Biological Center	\$2,913,000	2011
Army	PE 0601101A	Edgewood Chemical Biological Center	\$833,000	2012
Army	PE 0601101A	Edgewood Chemical Biological Center	\$847,000	2013
Army	PE 0601101A	Edgewood Chemical Biological Center	\$968,000	2014
Army	PE 0601102A H57	Single Investigator Basic Research	\$3,970,000	2008
Army	PE 0601102A H57	Single Investigator Basic Research	\$5,753,000	2009
Army	PE 0601102A H57	Single Investigator Basic Research	\$5,829,000	2010
Army	PE 0602786A H98	Measurement, Prediction and Improvement of Soldier Performance		
Army	PE 0601104A H05	Institute for Collaborative Biotechnologies	\$8,151,000	2011
Army	PE 0601104A H05	Institute for Collaborative Biotechnologies	\$10,795,000	2012
Army	PE 0601104A H05	Institute for Collaborative Biotechnologies	\$10,908,000	2013

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Army	PE 0601104A H05	Institute for Collaborative Biotechnologies	\$11,014,000	2014
Army	PE 0601102A H44	Engineered Biotechnology	\$3,108,000	2014
Army	PE 0601102A H44	Biologically-Inspired Sensing and Power Generation	\$2,999,000	2012
Army	PE 0601102A H44	Biologically-Inspired Sensing and Power Generation	\$3,068,000	2013
Army	PE 0601102A H44	Biologically-Inspired Sensing and Power Generation	\$3,113,000	2014
Army - Chemical and Biological Defense Program	PE 0601384BP LF1	Life Sciences	\$21,924,000	2012
Army - Chemical and Biological Defense Program	PE 0601384BP LF1	Life Sciences	\$29,606,000	2013
Army - Chemical and Biological Defense Program	PE 0601384BP LF1	Life Sciences	\$34,646,000	2014
DARPA		Synthetic Biology Program	\$16,078,000	2011
DARPA		Synthetic Biology Program	\$12,000,000	2012
DARPA		ADEPT Program	\$25,000,000	2012
DARPA		BioDesign Program	\$3,000,000	2012
DARPA		Adept Program	\$33,795,000	2013
DARPA		BioDesign Program	\$10,824,000	2013
DARPA		Living Foundries Program	\$20,250,000	2013
DARPA		Adept Program	\$69,352,000	2014
DARPA		BioDesign Program	\$11,438,000	2014
DARPA		Living Foundries Program	\$29,128,000	2014
DARPA		Adept Program	\$63,462,000	2015
DARPA		BioDesign Program	\$19,354,000	2015
DARPA		Living Foundries Program	\$39,586,000	2015
DARPA		ACE program	\$8,000,000	2015

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Experiment	https://experiment.com/projects/eukippos-an-open-synthetic-biology-lab-in-the-cloud	Leukippos - an open synthetic biology lab in the cloud	\$800	2013
Experiment	https://experiment.com/projects/back-to-the-basics-of-synthetic-biology	Back to the Basics of Synthetic Biology	\$2,017	2013
Indiegogo	https://www.indiegogo.com/projects/yovivo-yogurt-naturally-inspired-synthetic-biology-meets-global-health	Yovivo! Yogurt. Naturally-Inspired Synthetic Biology Meets Global Health	\$8,946	2013
Indiegogo	https://www.indiegogo.com/projects/a-mathematical-way-to-think-about-biology	A mathematical way to think about biology	\$35	2013
Indiegogo		Kickstopper: Stopping Syn Bio Pollution	\$2,274	2013
Indiegogo	https://www.indiegogo.com/projects/real-vegan-cheese		\$37,369	2014
Kickstarter	https://www.kickstarter.com/projects/637230479/a-documentary-film-about-synthetic-biology?ref=discovery	A Documentary Film about Synthetic Biology	\$31,046	2011
Kickstarter	https://www.kickstarter.com/projects/antonyevans/glowing-plants-natural-lighting-with-no-electricity?ref=discovery	Glowing Plants: Natural Lighting with no Electricity	\$484,013	2013

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Kickstarter	https://www.kickstarter.com/projects/399751458/gamma-hungry-nuclear-waste-clean-up-with-synthetic?ref=discovery	Gamma Hungry: Nuclear Waste Clean Up With Synthetic Biology	\$7,384	2014
RocketHub	http://www.rockethub.com/projects/6131-brazil-s-igem-team-registration	Brazil's iGEM Team Registration	\$2,995	2012
RocketHub	http://www.rockethub.com/projects/9444-bacteria-taking-on-polystyrene-can-we-do-it	Bacteria taking on polystyrene, can we do it?	\$100	2012
RocketHub	http://www.rockethub.com/projects/28958-using-foot-odour-in-the-fight-against-malaria	Using Foot Odour in the Fight Against Malaria	\$725	2013