Norman Hackerman Advanced Research Program
2011 Competition
Summary of Panelists

Reviewer Numbers by Panel	number of reviewers:	24	100%
	Molecular Biology and Genetics	13	54%
	Materials Science/Nanosicence	11	46%

Reviewer Affiliation

	University Affiliation	18	75%
	Number of institutions	16	
	Medical Schools and Health Science Centers	2	8%
	Industry Affiliation	1	4%
	Government Laboratories	3	13%
	Number of States represented	19	38%

Reviewer Level

	Distinguished Professor	7	29%
	Professor	7	29%
	Associate Professor	3	13%
	Assistant Professor	2	8%
	Professional Title (senior)	5	21%
	Professional Title (junior/midlevel)		
	Number of Medical Doctors	1	4%

Summary of Review Panelists

	Male	20	83%
	Female	4	17%
	Black		
	Hispanic	2	8%
	Asian	5	21%

Norman Hackerman Advanced Research Program
2011 Competition
Panelists and Affiliations

James Anderson
Marquette University

Julie Champion
Georgia Institute of Technology

George Crabtree
Argonne National Laboratory

Henry Edwards
Texas Instruments, Inc.

Karen Friderici
Michigan State University

Ronald Gibala
University of Michigan

Gregor Gil
Virginia Commonwealth University Medical Center

Daniel Hassett
University of Missouri-Columbia

Cynthia Hemenway
North Carolina State University

Bernadette Hernandez-Sanchez
Sandia National Laboratories

Kai-Ming Ho
Iowa State University

Pui-Yan Kwok
University of California, San Franscisco

John Lannutti
Ohio State University

Eric Lin
National Institute of Standards and Technology

Brian Love
University of Michigan

Mark Lusk
Colorado School of Mines

Ulrich Melcher
Oklahoma State University

Jagdish Narayan
North Carolina State University

Guy Plunkett
University of Wisconsin-Madison

Lucas Pozzo-Miller
University of Alabama at Birmingham

Barrie Robison
University of Idaho

Joonil Seog
University of Maryland

Robert Tanguay
Oregon State University

Thomas Yankee
The University of Kansas Medical Center

Norman Hackerman Advanced Research Program
2011 Competition
Pre-proposals Submitted by Institution

	Institution	Number Submitted	Dollars Requested
1	Angelo State University	1	78,000
2	Baylor University	3	225,000
3	Lamar University	2	160,000
4	Prairie View A&M University	1	80,000
5	Rice University	6	480,000
6	Sam Houston State University	2	160,000
7	Southern Methodist University	3	239,972
8	St. Mary's University of San Antonio	1	80,000
9	Texas A&M Health Science Center	15	1,200,000
10	Texas A&M International University	2	143,000
11	Texas A&M University	8	639,380
12	Texas A&M University - Commerce	1	67,472
13	Texas A&M University at Galveston	2	152,000
14	Texas AgriLife Research	26	2,075,559
15	Texas Christian University	3	235,000
16	Texas College	1	80,000
17	Texas Engineering Experiment Station	6	480,000
18	Texas Southern University	2	130,000
19	Texas State University - San Marcos	5	365,000
20	Texas Tech University	19	1,497,067
21	Texas Tech University Health Sciences Center	6	480,000
22	Texas Woman's University	1	80,000
23	The University of Texas - Pan American	4	314,385
24	The University of Texas at Arlington	19	1,478,288
25	The University of Texas at Austin	32	2,548,346
26	The University of Texas at Brownsville and Texas Southmost College	4	320,000
27	The University of Texas at Dallas	2	160,000
28	The University of Texas at El Paso	5	400,000
29	The University of Texas at San Antonio	6	479,832
30	The University of Texas at Tyler	2	116,000
31	The University of Texas Health Science Center at Houston	14	1,120,000
32	The University of Texas Health Science Center at San Antonio	8	640,000
33	The University of Texas Health Science Center at Tyler	1	80,000
34	The University of Texas Medical Branch at Galveston	6	475,000
35	The University of Texas of the Permian Basin	1	80,000
36	The University of Texas Southwestern Medical Center	12	940,000
37	University of Houston	25	1,990,000
38	University of Houston - Clear Lake	1	80,000
39	University of Houston - Victoria	1	74,380
40	University of North Texas	12	918,387
41	University of North Texas Health Science Center at Fort Worth	3	240,000
42	University of the Incarnate Word	1	80,000
43	UT M.D. Anderson Cancer Center	3	238,500
	Totals	**278**	**$21,900,568**

Norman Hackerman Advanced Research Program
2011 Competition
Proposals Submitted by Institution

	Institution	Number Submitted	Dollars Requested
1	Baylor University	1	80,000
2	Rice University	4	320,000
3	Texas A&M Health Science Center	3	240,000
4	Texas A&M International University	1	62,663
5	Texas A&M University	3	238,946
6	Texas AgriLife Research	8	640,000
7	Texas Christian University	2	148,765
8	Texas Engineering Experiment Station	4	320,000
9	Texas Southern University	1	80,000
10	Texas State University - San Marcos	2	125,000
11	Texas Tech University	4	319,520
12	Texas Tech University Health Sciences Center	2	160,000
13	The University of Texas - Pan American	1	74,540
14	The University of Texas at Arlington	6	470,000
15	The University of Texas at Austin	20	1,559,750
16	The University of Texas at Dallas	1	80,000
17	The University of Texas at El Paso	2	160,000
18	The University of Texas at San Antonio	1	80,000
19	The University of Texas at Tyler	1	50,000
20	The University of Texas Health Science Center at Houston	6	480,000
21	The University of Texas Health Science Center at San Antonio	4	320,000
22	The University of Texas Medical Branch at Galveston	2	160,000
23	The University of Texas Southwestern Medical Center	1	80,000
24	University of Houston	17	1,359,950
25	University of Houston - Clear Lake	1	80,000
26	University of North Texas	6	458,846
27	UT M.D. Anderson Cancer Center	1	78,500
	Totals	**105**	**$8,226,480**

Norman Hackerman Advanced Research Program
2011 Competition
Funding by Institution

	Institution	Number of Awards	Dollar Amount
1	Texas AgriLife Research	1	80,000
2	Texas Christian University	1	80,000
3	Texas Engineering Experiment Station	1	80,000
4	Texas State University - San Marcos	1	80,000
5	Texas Tech University	1	80,000
6	The University of Texas at Austin	4	320,000
7	University of Houston	3	240,000
	Totals	**12**	**$960,000**

Norman Hackerman Advanced Research Program
2011 Competition
Funding Rates by Area

Research Area	(a) Submitted Pre-Proposals	(b) Full Review Proposals	(c) Funded Proposals	(d) Dollar Amount of Funded Proposals	(c÷a) Fund Rate (%) *based on pre-proposals*	(c÷b) Fund Rate (%) *based on full review proposals*
Biological Sciences - Molecular Biology, Cellular Biology, and Genetics	169	57	6	$480,000	3.6	10.5
Materials Science/Nanoscience	109	48	6	$480,000	5.5	12.5
TOTALS	**278**	**105**	**12**	**$960,000**	**4.3**	**11.4**

Link to: National Science Foundation (NSF) Success Rates
Link to: National Institutes of Health (NIH) Success Rates

Norman Hackerman Advanced Research Program
2011 Competition
List of Awards

Biological Sciences - Molecular Biology, Cellular Biology, and Genetics (One Independent Institution)
Total Award Amount: $480,000

Adaptive Evolution of NSAR/OSBS Enzymes
$80,000 Texas AgriLife Research Margaret Glasner

Assessing the Impact of European Contact on Native American Genomic Diversity and Disease Prevalence
$80,000 The University of Texas at Austin Deborah Bolnick

Interspecific Hybrids as a Tool for Genetic Determination of Complex Phenotypes in Bacteria
$80,000 Texas Engineering Experiment Station Katy Kao

Real Time Tracking of Substrate-Enzyme Interaction in Single Ribosomes
$80,000 University of Houston Yuhong Wang

Small Molecule-Mediated Axonal Regeneration
$80,000 The University of Texas at Austin Dionicio Siegel

Systemic Inflammation as a Treatable Risk Factor in the Onset of Alzheimer's Pathology
$80,000 Texas Christian University Michael Chumley

Materials Science / Nanoscience
Total Award Amount: $480,000

Beam-Directed Assembly of Conductive Polymer Nanostructures
$80,000 University of Houston Gila Stein

Designing New Platforms for Tailored Crystallization of Nanoporous Zeolites
$80,000 University of Houston Jeffrey Rimer

Nanotechnology in Agriculture: Interactions Between Nanomaterials and Cotton Agrochemicals
$80,000 Texas Tech University Jonathan Maul

Self-healing Epoxy Nanocomposites Containing Functionalized Halloysite Nanotubes
$80,000 Texas State University - San Marcos Luyi Sun

Shortwavelength Quantum Cascade Lasers with Internal Frequency Doubling
$80,000 The University of Texas at Austin Mikhail Belkin

Twisted Plasmonic Nanomaterials for Planarized, Ultrathin, Broadband Integrated Optical Devices
$80,000 The University of Texas at Austin Andrea Alù

For more information about awards to each institution, contact:

Baylor University
Lisa McKethan, 254/710-3817

Texas A&M International University
Ann Frey, 956/326-3024

Texas AgriLife Research
Debbie Cumming, 979/845-4783

Texas Christian University
Janis Morey Naugle, 817/257-4877

Texas Engineering Experiment Station
David Hollingsworth, 979/847-7638

Texas State University - San Marcos
Scott Erwin, 512/245-2102

Texas Tech University
Colette Solpietro, 806/742-3884

The University of Texas at Austin
Susan Wyatt Sedwick, 512/471-6424

University of Houston
Beverly Rymer, 713/ 743-5773

Norman Hackerman Advanced Research Program
2011 Competition
List of Additional Awards

The Texas Higher Education Coordinating Board awarded five additional awards for the 2011 Norman Hackerman Advanced Research Program (NHARP) competition at its October 2012 meeting and two additional awards at its January 2013 meeting. Awards were made possible through unspent grant funds.

Biological Sciences - Molecular Biology, Cellular Biology, and Genetics (One Independent Institution)
Additional Award Amount: $250,573

Electromagnetic Biostimulation of Microbial Cells
$73,860 The University of Texas at Austin Halil Berberoglu

Copper Homeostasis and the Nonsense-Mediated mRNA Decay Pathway in Saccharomyces Cerevisiae
$73,860 Baylor University Bessie Kebaara

Structural Characterization of the Protein Ensemble by Equilibrium Unfolding Methods
$45,000 Texas State University - San Marcos Steven Whitten

*Cloning and Characterization of the Novel Gene CIA7 of Chlamydomonas reinhardtii
$57,853 Texas A&M International University Ruby Ynalvez

Materials Science / Nanoscience
Additional Award Amount: $ 187,720

Exploiting Melanin-based Polymers for Advanced Multifunctional Materials
$ 73,860 The University of Texas at Austin Christopher Ellison

Stable, Self-Crowded Protein Nanoclusters for Delivery of High Concentration Therapeutic Antibodies
$40,000 The University of Texas at Austin Jennifer Maynard

*Chemical Preparation of Biomimetic Surfaces
$73,860 The University of Texas at Austin Lauren Webb

*Approved at the January 2013 Board Meeting