URP name	University	Advisor	Research Project
1959			
David Baltimore	Swarthmore College	A. Chovnick	Physiological genetics of Drosophila and Neurospora
Sandra Edwards	Goucher College	M. Demerec	Bacterial genetics
Frederick Gilman	Michigan State University	H. Gay	Electron microscopy and cytogenetics
Lucie Hicks	Mount Holyoke College	P.E. Hartman	Bacterial genetics
Nancy Metnick	Rutgers University	R.D. Hotchkiss	Pneumococcus transformation
Samuel Piel	Harvard University	B.P. Kaufmann	Electron microscopy and cytogenetics
Robert Reinhold	Johns Hopkins University	S.E. Luria	Genetics of bacteriophage
Philip Shambaugh	Princeton University	P. Margolin	Bacterial genetics
George Trager	Cornell University	H. Moser	Tissue culture of normal and malignant mammalian cells
Carole Weisbrot	Brooklyn College	G. Streisinger	Genetics of bacteriophage viruses
1960			
Philip Colbert	Wesleyan University	B.P. Kaufmann	Effect of deoxyribonuclease in Drosophila
Carol Dressel	Michigan State University	A. Chovnick	Studies of a complex locus in Drosophila
Kay L. Fields	Radcliffe College	P. Margolin	Variation in transduction frequency in S. typhimurium
Steven Jaffe	Johns Hopkins University	R. Franklin	Chromosomal variation in normal and tumorous lines of mouse cells grown in vitro
Charles Laird	University of Oregon	P. Margolin	Mechanism of gene incorporation through transduction in S. typhimurium
Marlene Martin	Rutgers University	A. Schalet	Development of selective procedures for recombination studies in Drosophila
Frances Messik	Alfred University	B.P. Kaufmann	Effect of infrared irradiation on recombination in Drosophila
June Rothman	Swarthmore College	M. Fox	Cross-feeding between mutant and wild-type cells of E. coli
1961			
Marietta Cassle	Indiana University	B.P. Kaufmann	Study of chromosomes in human blood cells
Gail Choder	University of Pittsburgh	E. Englesberg	Glucose effect in E. coli
Ronald Garren	Dartmouth College	A. Sokoloff	Genetic studies of eye pigment formation in several beetle species
Alfred Goldberg	Harvard University	A. Schalet	A possible synthetic lethal in Drosophila
Frances Messik	Cornell University	P. Margolin	Complementation studies of induced auxotrophs in S. typhimurium
Kirsten Olsen	Wells College	B.P. Kaufmann	Studies on DNA in Drosophila
Alan Rein	Reed College	A. Chovnick	Maternal effects in Drosophila
Jonathan Rosner	Swarthmore College	R. Franklin	Autoradiographic studies of RNA synthesis in mouse L-cells infected with mengovirus
John Roth	Harvard University	F. Mukai	Studies of chemical mutagenesis in S. typhimurium
1962			
Linda Brody	Pembroke College	R.M. Franklin	Analysis of nucleic acid hydrolyzates by thin layer chromatography
Claire Dryfuss	Douglas College	A. Schalet	Development of techniques for a microbial genetics course
John Farber	Reed College	M. Fox	Genetic analysis of adenine linkage groups in B. subtilis
Barbara Furman	Cornell University	A. Chovnick	Fine structure of the rosy cistron in Drosophila
Agnes Harford	Radcliffe College	M. Fox	Effect of 1-methyl-3-nitro-1 nitroso compounds on the transforming principle of B. subtilis
Lawrence Kadish	Princeton University	A.B. Pardee	Photodynamic inactivation of genetic material
Robert Pollet	Columbia University	H.E. Umbarger	Hydrolysis of dipeptides by S. typhimurium extracts
Barry Rosen	Massachusetts Institute of Technology	H.E. Umbarger	Control of biosynthetic enzymes
Jeff Siegel	Reed College	P. Margolin	Fine structure of the leucine region of the chromosome of S. typhimurium
Charles Wahl	Columbia University	H.E. Umbarger	Genetic and environmental control of L-serine biosynthesis in S. typhimurium
1963			
Wayne Diamond	University of Pennsylvania	S. Goodgal	Physical properties of H. influenza bacteriophage
Claire Dryfuss	Douglas College	P. Margolin	Deletion mutations in S. typhimurium
Alan Finesilver	University of Rochester	T. August	Search for a natural pol adenylate in E. coli
Edward Hackney	Duke University	S.R. Gross	Fluoroleucine-resistant mutants of Neurospora crassa
Michael Murray	Bellarmine College	R.O. Burns	Isomerase enzyme in leucine biosynthesis in S. typhimurium
Rita Rothenberg	Mount Holyoke College	E. Goldberg	Infection of spheroplasts with T4 DNA
Susan Singer	Vassar College	M. Freundlich	Aspartokinase in salmonella
Lewis Jacobson	Amherst College	I.C. Gunsalus	Camphor-fermenting pseudomonads
Kathryn Treible	Lycoming College	G. Mosig	Heavy T4 bacteriophage
Mary Robbins	University of California	J. Gots	Zygotic induction
1964			
Rosina Berry	Radcliffe College	R.S. Edgar	Isolation of new T-phage types and their characterization
Seth Braunstein	Princeton University	S.R. Gross	Isolation of leucine auxotrophs of B. subtillis for transformation experiment
Eric Brondfield	Harvard University	R.S. Edgar	Characterization of “Azure” mutants of phage T4
Barbara Bund	Radcliffe College	S. Goodgal	Production by mutagens of temperature-sensitive mutants of H. influenza
Ann Gunsalus	Hiram College	C.I. Davern	Production by fluorouracil of temperature-sensitive mutants of an RNA phage
Jack Michalka	Philadelphia College	S. Goodgal	Production of a defined medium for growth of H. influenza for transformation experiments
Ethel Noland	Radcliffe College	I.C. Gunsalus	Transduction of camphor resistance by a pseudomonas phage
Henry Smilowitz	Reed College	P. Margolin	Studies on leucine-permease mutants in S. typhimurium
Kathryn Treible	Lycoming College	G. Mosig	Studies on complementation by amber mutants of T4 phage
Paul Wolfowitz	Cornell University	E. Goldberg	Kinetics of uptake of T4 DNA by spheroplasts
1967			
Douglas Brown	Bellarmine College	D. Denhardt	Phage Ø/X174
Judith Cohen	Columbia University	R. Novick	Staphylococcal RTF
Geoffrey Cooper	Massachusetts Institute of Technology	M. Fox	Transcription and recombination
Palma Longo	St. Bonaventure University	J. Speyer	Genetic suppression

URP name	University	Advisor	Research Project
Michael Lovett	Yale University	S. Goodgal	Bacterial transformation
Michael McLeod	California Institute of Technology	M. Delbrück	Albino phycomyces
Gerald Rosen	Cornell University	M. Fox	Bacteriophage recombination
Robert Steinberg	Harvard University	J. Cairns	DNA transfer
Jill Steinhardt	Goucher College	S. Colowick	Bacteriophage rII function
Peter Wayne	Harvard University	C.I. Davern	DNA synthesis
1968			
Michael Brandt	Williams College	R. Hendrix	Proteins in lambda cIII deletion mutants
Maryann Brunstetter	University of California	K. Manly	Isolation of phage lambda cIII deletion mutants
Stephen Dennis	Massachusetts Institute of Technology	R. Werner	DNA replication
Michael Farber	California Institute of Technology	P. Spahr	Molecular weight determination on R17 RNA fragments
Lynn Greenwald	Cornell University	J. Marmur	B. subtilis SP02 prophage
Palma Longo	St. Bonaventure University	R.F. Gesteland	In vitro protein synthesis
Michael Lovett	Yale University	S. Goodgal	DNA-negative mutants of H. influenza
William Meadow	Amherst College	J. Marmur	B. subtilis SP02
Donald Syracuse	Dartmouth College	J.T. August	Isolation of phage QB amber mutants
Peter Wayne	Harvard University	J. Cairns	DNA replication
1969			
Josephine Bowen	University of Notre Dame	R. Werner	Intergenic suppression of T4 ligase mutations
Stephen Dennis	Massachusetts Institute of Technology	R. Werner	Replication of T4 mutants defective in gene 32
Charles Gilbert	Amherst College	R.F. Gesteland	Nucleotide sequence of phage R17 RNA
John F. King	Harvard University	J.D. Watson	Isolation of UGA mutants in phage R17
David N. Kuhn	Massachusetts Institute of Technology	J. Cairns	Phosphate precursor pools of DNA
Sondra Lazarowitz	Massachusetts Institute of Technology	R. Webster	Mechanism of killing of E. coli K38 infected with amber mutants of phage P1
Michael Link	Columbia University	J. Marmur	Isolation of conditional lethal mutants in phage SP02
Palma Longo	St. Bonaventure University	R.F. Gesteland	In vitro synthesis of phage T4 glucosyl transferase
Patricia Stanley	Cornell University	J. Davies	Difference between cytoplasmic and mitochondrial protein synthesis in yeast
Joan Stephenson	Duke University	J. Marmur	Prophage site of B. subtilis phage SP02
1970			
Denise Bostrom	Bennington College	R.F. Gesteland	Search for unusual RNA phages
Mark E. Furth	Harvard University	D. Zipser	Control of operon separation
Charles Gilbert	Amherst College	R. Crouch	Phage lambda DNA attachment in E. coli minicells
David Kaback	SUNY, Stony Brook	D. Zipser	Termination of mRNA synthesis
Ilan Kirsch	University of California	C. Mulder	Effect of E. coli B restricting enzyme on SV40 and polyoma DNA
Jeanne Margolskee	Harvard University	J. Cairns	Membrane attachment of DNA replication fork
David Margulies	Columbia University	R. Werner	Effect of gene 32 protein on rate of DNA replication in phage T4
Harvey Morrison	Cornell University	H. Westphal	Number of integrated SV40 genomes in transformed cells
Gerald Rubin	Massachusetts Institute of Technology	L. Crawford	Translation of mitochondrial DNA in a coupled system
Margaret Tucker	Wellesley College	J. Sambrook	Isolation of RNA polymerase from HeLa-mouse hybrids
1971			
Stephen Chung	University of Oregon	D. Zipser	Phage Mu rec. system
Mitchel Kanter	Duke University	D. Zipser	Phage Mu deletion map
Michael Kaplan	Harvard University	P. Greenaway	Tumor virus proteins
Ronald Koenig	Yale University	D. Zipser	Phage Mu deletion map
Randi Leavitt	Brooklyn College	D. Zipser	Mu-Lac hybrid proteins
Susan Leibenhaut	Massachusetts Institute of Technology	J. Sambrook	E. coli animal cell agglutination
Annamarie Rehn	Duke University	R.F. Gesteland	E. coli ribosome binding sites
John Ridge	University of Chicago	H. Delius	DNA renaturation with “gene 32” protein
Gerald Rubin	Massachusetts Institute of Technology	R.F. Gesteland	Lac operator nucleotide sequence
Jerome Zeldis	Brown University	D. Zipser	Orientation of Mu prophage
1972			
Janice Blustein	Johns Hopkins University	W. Keller	Separation of subunits of RNA-dependent DNA polymerase from avian myeloblastosis virus
David E. Burstein	Columbia University	E. Bade	Transcription of Mu-1 prophage
Hugh Cairns	Brown University	R. Pollack	Cell volume alternations in synchronized populations
Terrell Gibbs	Massachusetts Institute of Technology	D. Zipser	Computer simulation of nucleic acid
Helen Hollingsworth	Brown University	J. Bruenn	Isolation of mRNA degradation deficient mutants of E. coli
Ben Kim	Harvard University	P. Greenaway	Purine tract analysis of SV40 DNA
Mary M. Martin	Reed College	P. Greenaway	Pyrimidine tract analysis of SV40 DNA
T. Kevin Sweeney	Cornell University	H. Delius	Partial denaturation map of T5 DNA
Janis Townsend	Princeton University	C. Anderson	Characterization of tryptic peptides of actin
Jerome Zeldis	Brown University	R. Pollack	Fluctuation analysis of mutagen-induced reversion of transformed cells
1973			
James Breitmeyer	UC, Santa Cruz	R. Roberts	Purification and characterization of a new restriction endonuclease from H. aegyptius
Robert Heimer	Columbia University	P. Greenaway	ATP-dependent DNA methylases and endonucleases in chicken embryos
Helen Hollingsworth	Brown University	P. Sharp	Mapping of H. prainfluenzae fragments of adenovirus 2 DNA
James F. Jackson	Princeton University	R.F. Gesteland	Isolation and sequencing of a tyrosine suppressor tRNA from yeast
Angus P. McIntyre	Harvard University	A.I. Bukhari	Study of an unusual growth factor-requiring mutant E. coli
Bernard H. Shen	Harvard University	P. Greenaway	Comparative study on DNA methylases in various rabbit tissues
T. Kevin Sweeney	Cornell University	H. Delius	Partial denaturation of phage T5 DNA

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Nina F. Tabachnik	Yale University	R. Roberts	Purification and characterization of a second new restriction endonuclease from H. aegyptius
Paula Traktman	Radcliffe College	M. Howe/D. Zipser	Mutants of bacteriophage Mu-1 defective in lysogenization
Mariana Wolfner	Cornell University	R.F. Gesteland	In vitro protein synthesis in a wheat germ system using natural messages
1974			
Margaret Hightower	University of Alabama	R.F. Gesteland	Purification of yeast killer particles
Keith Mostov	University of Chicago	R. Roberts	A search for a mutant of the restriction endonuclease EcoRI
Harker Rhodes	Harvard University	B.N. Apte	In vivo and in vitro degradation of reinitiation polypeptides
Hilary Ronner	Barnard College	A.I. Bukhari	Assay of DNA-unwinding proteins from plasmid containing strains of E. coli
Howard Rutman	Harvard University	M. Botchan	Size determination of SV40 virion proteins from virus containing deleted DNA genomes
Vicky Valverde-Salas	Massachusetts Institute of Technology	A.I. Bukhari	Temperature-sensitive beta-galactosidase mutants of E. coli
Gary Weiss	Columbia University	R. Roberts	A search for new specific endonucleases
Mariana Wolfner	Cornell University	R.F. Gesteland	Analysis of yeast killer RNA and cell-free protein synthesis in yeast extracts
1975			
John Kent Chin	Yale University	T.R. Broker	Characterization of ultraviolet radiation-sensitive mutants of bacteriophage T4
Paul Epstein	Princeton University	R.F. Gesteland	The relationship between polarity suppression and internal reinitiation polypeptides in E. coli
Roslyn Feder	Brooklyn College	D. Botstein	Fractionation of suppressing tRNA from yeast cells
David Goldberg	Yale University	T. Maniatis	Direct DNA sequence analysis of bovine satellite DNA
Martin Jacobs	Duke University	B.N. Apte	Polypeptide splicing in vivo and in vitro
Wilson Miller	Princeton University	R.F. Gesteland	Cell-free protein synthesis in extracts from yeast
Julie Olson	Massachusetts Institute of Technology	R. Roberts	Screening bacterial strains for new restriction endonucleases
Vann Parker	Duke University	A.I. Bukhari	Genetic analysis of circular DNA molecules formed after prophage Mu induction
Howard Rutman	Harvard University	M. Botchan	Phosphorylation of SV40 virion proteins
Gary Struhl	Massachusetts Institute of Technology	G. Albrecht-Buehler	Two phases of locomotion in 3T3 mouse fibroblasts as revealed by haptotaxis phenomena
1976			
Mark D. Glen	University of Pennsylvania	M. Mathews	Nucleotide sequence of gene for adenovirus-associated RNA
Marion Gold	UC, Berkeley	C.G. Miller	In vitro studies of protein degradation in E. coli
Robert Gudor	UC, Berkeley	A.I. Bukhari	Interaction of genomes of bacteriophages Mu and P1 in E. coli
Francine Bryanne Hanberg	Yale University	R. Roberts	Screening bacterial strains for new restriction endonucleases
Nancy Harris	Yale University	J. Manley	Transcription of adenovirus DNA by wheat-germ RNA polymerases
Franklin G. Moser	Yale University	L.B. Chen	Distribution of cell-surface LETS protein in co-cultures of normal and transformed cells
Phyllis Moses	Johns Hopkins University	R. Kahmann	Hybrids made in vitro between pMB9 and C-terminal HindIII fragment of phage Mu
James Rhodes	Harvard University	K. Burridge	Direct gel analysis of glycoproteins from cultured fibroblasts and epithelial cells
James M. Roberts	Amherst College	T. Broker/L. Chow	A cytoplasmic RNA transcript map of adenovirus 2 determined by electron microscopy of RNA:DNA hybrids
Beth Weinstein	Cornell University	J. Broach	Search for operon mutants in the galactose system of yeast
1977			
Vicki Lynn Brawley	UC, Berkeley	N. Harter	Characterization of adenovirus early protein
Carol Clewans	Reed College	A.I. Bukhari	Mapping of a new gene controlling the synthesis of an unusual growth factor in E. coli
Jason Fisherman	Yale University	R. Roberts	In situ assays for restriction endonucleases
Robert Hanich	Harvard University	R. Tjian	Big T and little t in deletion mutants of SV40
Iris Isabella Martinez	UC, Berkeley	D. Zipser	The expression of cloned yeast DNA in E. coli minicells
Cynthia Sammis	Wells College	L. Chen	Studies on the synthesis of LETS protein
Forrest Spencer	Smith College	R. Kahmann	Microinjection into Xenopus oocytes
Eve Wolinsky	Massachusetts Institute of Technology	E. Cheng	Degradation of nonsense fragments of E. coli
Gary Yellen	Harvard University	J. Broach	2-D separation of DNA restriction fragments
1978			
Ezekiel J. Emanuel	Amherst College	J.B. Hicks	Isolation of mutations in mating-type locus of S. cerevisiae
Debra Sue Erdmann	University of Wisconsin	D.Y. Kwoh	Genetic recombination and complementation between Mu and cloned of Mu DNA
Scott Finley	SUNY, Stony Brook	N. Harter	Immunological identification of Ad2 early proteins
Judith Krieger	Harvard University	K. Burridge	Use of monoclonal antibodies to study cell surface antigens
James Lupski	New York University	A.I. Bukhari	Construction of plasmids containing ends of prophage Mu DNA
Kenneth McElwain	Wesleyan University	T.R. Broker	Identification of recombinant plasmids with Tn5 inserted in cloned phage Mu DNA
Jeremy Nathans	Massachusetts Institute of Technology	R. Roberts	Modification of Sanger's chain termination DNA sequencing method in Ad2 DNA
Steven Robinow	UC, Berkeley	R. Tjian	Enzymatic and DNA binding properties of the SV40 A-gene product
Susan Rolseth	University of Connecticut	Y.-S. Cheng	Characterization of E. coli K12 mutants defective in protease III
Adam Schulman	University of Chicago	G. Albrecht-Buehler	The effect of cold shocks on mirror-symmetrical migration of sister 3T3 cells
Michael Stern	Stanford University	J.R. Broach	Cloning SUP61, a yeast serine inserting, recessive-lethal, nonsense-suppressor gene
1979			
Martha S. Cyert	Harvard University	B.S. Zain	Nucleotide sequence analysis of the REC/INT sites of Ad2+ND1–dp2 viral DNA
Samuel Kunes	University of Oregon	G.P. Thomas	Studies on the control of adenovirus gene expression
Joachim Li	University of Chicago	A.I. Bukhari	Sequencing of products left after excision of Mu DNA from the lacZ gene: adaptation of Sanger's dideoxy-method and the M13 phage system
Leona Ling	UC, Berkeley	Y. Gluzman	Sequence determination of the junctions between Ad2 and SV40 genomes in the Ad2-SV40 (HEY and LEY) hybrids
Suzanne Mansour	Radcliffe College	M. Mathews	Selection of adenovirus mRNAs using separated strands of viral DNA fragments
Mark Minie	Wesleyan University	K. Burridge	Attempt to isolate mouse lymphocyte IgG "caps" or "patches"
Timothy Mitchison	Oxford University	M. Botchan	SV40 recombination with chromosomal DNA
David Schriger	Amherst College	M. Wigler	Cloning and characterization of deletion mutants of the HSV-1 thymidine kinase gene
Brook Soltvedt	Wellesley College	Y.-S. Cheng	Restriction endonuclease analysis of the cloned lacZ carrying an ochre mutation
Elizabeth Spatola	Wheaton College	J.B. Hicks	Isolation of mutations in mating-type locus of S. cerevisiae

URP name	University	Advisor	Research Project
Ina Sporecke	Smith College	D.Y. Kwoh	Nitrous acid mutagenesis of recombinant plasmids carrying the Mu gin gene
1980			
Alexander Baxter	Haverford College	D. Kurtz	Characterization of the rat alpha 2µ globulin
Chris Corliss	UC, Berkeley	R. Roberts	Dideoxy sequencing of adenovirus 2 DNA using HindII restriction fragments as primers
Andy Ellington	Michigan State University	J. Lewis	In vitro mutagenesis of Ad2 as a means of examining the significance of poly (A) tailing of mRNA
Deborah Gibson	Rensselaer Polytechnic Institute	J. Garrels	2-D gel electrophoresis of human fibroblast proteins: in quest of the CF gene
Felicia Hendrickson	Harvard University	J. Garrels	Mitochondrial protein identification on 2-D gels
Thomas Laton	LeMoyne College	J. Smart	Determination of the monoclonal antibody binding site of SV40 large T antigen
Leona Ling	UC, Berkeley	Y. Gluzman	Sequencing the junctions of Ad2–SV40-defective hybrids
Elizabeth McFarland	Northwestern University	D. Zipser	Sequence analysis of deletion and insertion mutations of the cloned HSV-1 thymidine kinase gene
Allen Oser	Brown University	A.I. Bukhari	Restriction enzyme mapping of Mu phage DNA and use of various methods to make plasmids (pSC101 and pBR322) containing Mu wild-type repressor gene
Barry Rosen	Wesleyan University	T. Broker	Nucleotide sequence evolution in adenovirus: determination of the sequence of gene
Eric Schulze	UC, Berkeley	S. Blose	Purification and characterization of the midbody of dividing HeLa cells
1981			
Kristen Clarke	University of Pennsylvania	R. Roberts	M13 as a chimeric protein cloning system
Lindsey Criswell	University of California	B. Stillman	Characterization of temperature-sensitive mutants of adenovirus 2
Lisa Haas	University of California	J. Hicks	Mapping of cloned pieces of yeast DNA which complement mutations in positive and negative regulatory elements for unexpressed mating-type loci
Jonathan Miller	Yale University	J. Stringer	Viral RNA levels in rat cells transformed by an SV40 T antigen mutant
Nancy Mills	Harvard University	D. Zipser	The promoter region of herpes virus thymidine kinase gene
Roger Mosesson	Columbia College	R. Harshey	Construction of Mini-Mu plasmid vectors that can be used for cloning
Mirjana Nesin	University of Belgrade	M. Wigler	Searching for human and murine transposons
Craig Okada	University of Utah	F. Heffron	Construction of A plasmid to study deletions associated with transposons
Ron Sapolsky	University of Rochester	J. Smart	Tryptic peptide analysis of proteins from adenovirus serotype 2 early regions
Eric Schulze	University of California	S. Blose	The midbody: a functional and molecular perspective
Nick Theodorakis	University of Washington	S. Hughes	Sequencing the chicken ß-actin gene
1982			
Tania Ann Baker	University of Wisconsin	A.I. Bukhari	Cloning the Mu A gene
David Campanelli	Wesleyan University	T. Broker	Gene expression of human papilloma virus type 1
Brad Cookson	University of Utah	M. Wigler	Construction of a transforming gene under control of a metallothionein promoter
Andrew Gray	Princeton University	P. Thomas	Genomic clones of human heat shock genes
Jill Heemskerk	UC, Berkeley	M. So	DNA rearrangement and pathogenicity in N. gonorrhoeae
Kenneth Howard	Cambridge University	J. Fiddes	Aspects of expression of the multigene family for the beta subunit of human chorionic gonadotropin
Eva Nozik	University of Colorado	D. Kurtz	Hormones and methylation patterns in gene expression
Philip Starr	Princeton University	T. Gingeras	Cloning bacterial restriction/modification genes
Nick Theodorakis	University of Washington	J. Feramisco	Analysis of structural proteins in non-muscle cells
Peter Weinstein	University of Michigan	L. Silver	Mapping of an MMTV provirus on mouse chromosome 7
1983			
Marvin Appel	Harvard University	F. Daldal	Growth of anaerobes under normal atmospheric conditions in medium reduced by
Michael Cahn	Dartmouth College	P. Thomas	Sequence analysis of human stress protein genes
Brad Cookson	University of Utah	M. Wigler	Analysis of mutations altering expression of H-ras-1 genes
Robert Dudley	Duke University	R. McKay	The generation of antibodies to neural gene products by means of cDNA clones
Lillie Hsu	University of Michigan	A.I. Bukhari	Vectors for shotgun cloning of bacterial genes without restriction enzymes
Kyu-Ho Lee	Massachusetts Institute of Technology	F. Tamanoi	Use of M13 to express H-ras-1 T24 bladder carcinoma p21 protein in E. coli
Ramona Morfeld	Wheaton College	J. Hicks	AntiMar: A disrupter of the negative regulation of the silent mating-type cassettes in S. cerevisiae
Andrew Nathanson	University of Pennsylvania	R. McKay	Molecular diversity of the embryonic rat nervous system
Michael Schor	Cornell University	A. Klar	Search for a site-specific endonuclease gene in S. pombe
Thomas Smart	Cornell University	M. Malmberg	Cloning of the N. tabacum nitrate reductase gene through Insertional mutagenesis of a modified T-DNA fragment of A. tumefaciens
Laurie Smith	Princeton University	A.I. Bukhari	Tn5 mutagenesis of the gin and mom genes of Mu
1984			
Mark Alfenito	Cornell University	S. Dellaporta	Genetic and molecular study of maize controlling elements
Catherine Chen	Massachusetts Institute of Technology	B. Stillman	Analysis of the deg phenotype associated with mutations in the gene encoding the adenovirus E1B 19K tumor antigen
Shinta Cheng	Yale University	F. Daldal	Molecular genetics of cytochrome C2 of R. capsulata
Susan Euling	Columbia University	D. Kurtz	Determination of tissue-specific transcription of alpha 2µ globulin
William Howell	University of Wisconsin	P. Scolnik	Characterization of DNA ends of the gene transfer agent R. capsulata
Phyllis Kristal	Massachusetts Institute of Technology	L. Silver	Developmental analysis of lethal mutations of mouse chromosome 17
Mark Montgomery	Princeton University	J. Lewis	Transcription studies with the cell cycle-regulated Chinese hamster thymidine kinase gene
Ramona Morfeld	Wheaton College	J. Hicks	Investigation of a transformation system in maize
Jon Rubin	Harvard University	D. Helfman	Isolation and characterization of cDNA clones encoding non-muscle tropomyosin
David Southern	University of Glasgow	R. Sadaie	Proliferating cell nuclear antigen: the need for research
1985			
Mark Alfenito	Cornell University	S. Dellaporta	Studies of a controlling element and complex locus in maize
Pedram Argani	Princeton University	Y. Gluzman	Expression of SV40 T antigen by E1-deleted adenovirus-5 vectors
Todd Brown	Pittsburg State University	D. Youvan	Isolation of the reaction center of R. capsulata and development of transformation protocols
Gabrielle Costello	Harvard University	R. Franza	Cell cycle study of the fission yeast S. pombe
Lisa Griffin	University of Notre Dame	D. Kurtz	Isolation of a transcriptional factor in the hormonal control of alpha2µ globulin

URP name	University	Advisor	Research Project
Nicholas Hanchak	University of Scranton	D. Hanahan	Transformation efficiency in nucleoside transport mutants of E. coli establishment of beta cell lines from transgenic mice
Stuart MacNeill	University of Glasgow	B. Stillman	Simian virus 40 replication in vitro
Susan McEvoy	University of Wisconsin	R. Roberts	Establishing E1A-producing cell lines and analysis of restriction endonucleases
Andrew Mirhej	Columbia University	C. Slaughter	The use of hydrophobic interaction chromatography as a new method for the typing of ALP
Kevin Murphy	Massachusetts Institute of Technology	J. Hicks	Transformation of C. reinhardtii
Robert Paul Ray	UC, Berkeley	R. Guggenheimer	SV40 replication in vitro
Geraldine Seydoux	University of Maine	D. Beach	Genetic suppressors of the genes ran1 and mei3 in S. pombe
Alyssa Shepard	UC, Riverside	W. Herr	Cell-type specificities of SV40 enhancer elements
Henry Stapp	Hampshire College	P. Scolnik	Location of carotenoid D gene product in R. capsulata
Sheila Wong	Yale University	F. Daldal	Cytochromes and the photosynthetic pathway of R. capsulata
1986			
Pedram Argani	Princeton University	Y. Gluzman	Origin-specific binding of SV40 large T antigen
Sean Burgess	University of Colorado	W. Herr	Late transcription in SV40
Nina Caplin	Duke University	B. Welch	Purification of the major mammalian glucose-regulated proteins
Mark Eisner	Stanford University	S. Powers	Localization and characterization of supC: A suppressor of the heat shock sensitivity phenotype induced by the Ras2val19 mutation in yeast
Irene Griff	Massachusetts Institute of Technology	F. Daldal	Isolation and identification of stigmatellin-resistant mutations in the pet operon in R. capsulata
Martin Horvath	Brown University	B. Stillman	Characterizing the ABF1 binding site of ARS1 in vivo
Brad Johnson	Yale University	A. Bhagwat/R. Roberts	Sequencing the EcoRII endonuclease gene
Ethel Johnson	Vanderbilt University	D. Helfman	Sequence determination and analysis of introns in rat embryonic fibroblast tropomyosin 1
Abhijeet Lele	Jesus College	E. Harlow	Identification of cellular mediators of E1A action by random mutagenesis of E1A-transformed cells
William Moomaw	SUNY, Albany	S. Dellaporta	Identification of Ac2 elements in the DNA of maize stocks showing responder element activity
Nicholas Morrissey	University of Rochester	A. Rice	Characteristics of double-stranded RNA required for the activation of the protein kinase, DAI
Roya Namvar	New York University	D. Youvan	Oligonucleotide-directed site-specific mutagenesis of the light-harvesting I antenna genes of R. capsulata
Scott Panzer	Harvard University	D. Hanahan	Expression patterns of papilloma viruses in transgenic mice
Henry Stapp	Hampshire College	P. Scolnik	Study of in vitro carotenoid biosynthesis and in vitro assembly of functional
Wendy Weiher	University of Pennsylvania	R. Cone	Efficiency of oncogene transfection into E1A-immortalized rat cells
1987			
Struan Coleman	Harvard University	D. Marshak	Phosphorylation by casein kinase II
Michelle Dziejman	University of Rochester	W. Welch	The mammalian heat shock response
Malek Faham	University of Maryland	F. Daldal	Genetic analysis of the structure of the quinol oxidization site of the cytochrome bc1 complex
Lisa Gloss	Michigan State University	W. Herr	Transcriptional control in SV40
Joshua Gordon	Washington University	L. Field	Construction of an albumin-ANF fusion gene
Diane Harvey	Cornell University	E. White	Expression of the adenovirus E1B gene products
Adam Kaplin	Yale University	D. Spector	Preliminary investigations into the functional significance of the Sm antigen distribution pattern in situ
Elena Levine	Yale University	M. Quinlan	The effect of adenovirus E1A on the SV40 enhancer in CV-1 cells
Rong Li	Yale University	D. Frendewey	Pre-mRNA splicing in S. pombe
John Logsdon	Iowa State University	S. Briggs	Gene expression in response to a fungal toxin in maize
Tobe Mellman	Cornell University	D. Beach	Isolating suppressors of a cdc13 mutation in S. pombe
Andrew Millar	Cambridge University	B. Stillman	In vitro mutagenesis of the ARS1 replication element of yeast
Alice Paquette	Massachusetts Institute of Technology	M. Gilman	Investigation of c-fos regulation
Pam Reinagal	Carnegie Mellon University	N. Hernandez	Small nuclear RNA U1 3' end formation
Barbara Sampson	Princeton University	A. Klar	Mating type switching in S. pombe
Elizabeth Sowell	College of Charleston	V. Sundaresan	Mapping of the Mu transposon in the bronze gene
Fiona Stewart	University of Glasgow	B. Moran	Characterization of conserved regions of adenovirus E1A gene
Jonathan Tropp	Harvard University	J. Pflugrath	Purification of yeast Ras2
Johannes Walter	UC, Berkeley	J. Anderson	DNA-protein interactions at the molecular level
1988			
Jennifer Brown	Yale University	K. Arndt	Cloning a transcription factor of the yeast HIS4 gene by expression library screening
Franco Carlotti	Cambridge University	A. Rice	Human immunodeficiency virus tat protein function
Emily Chan	Harvard/Radcliff	R. Roberts	mRNA splicing extracts from mammalian tissues
Emad Gharavi	City College of New York	M. Mathews	Cloning of PCNA by screening rat and human genomic libraries in lambda phage and isolation of genomic DNA fragments
Lisa Gloss	Michigan State University	R. Franza	Expression of three eukaryotic nuclear proteins
Daniel Grief	Stanford University	J. Anderson	Purification of the myc oncoprotein
Ulrich Grossniklaus	University of Basel	N. Hernandez	Transactivation of the human U2 small nuclear RNA promoter
Beth Hance	Moravian College	E. Moran	Activation of cellular gene expression by the adenovirus E1A gene products
Junjiro Horiuchi	Stanford University	B. Stillman	Isolation of putative human chromosomal origins of DNA T. tsurimoto replication
Seth Karp	Harvard University	D. Beach	Cell cycle regulation
Chris Leptak	Yale University	D. Frendewey	S. pombe mRNA splicing in vitro
Brandon Lloyd	Grinnell College	V. Sundaresan	Sequence-specific modification of the transposable mutator element
Joanna Long	University of Arkansas	B. Futcher	Cell cycle control in S. cerevisiae
Melissa Macias	University of Texas	J. Pflugrath	Purification of p13suc1
Sharon Perez	Wellesley College	M. Gilman	Transcriptional activation of the c-fos gene
Mia Schmiedeskamp	University of Michigan	D. Marshak	Determination of S100B levels in chick embryo cerebral cortex at successive stages in development
Ann Schroeder	UC, Davis	D. Spector	DHFR mRNA localization in mammalian nuclei
Tanya Whitfield	Cambridge University	W. Herr	HIV-1 tat/tar interaction
Albert Yan	Princeton University	D. Helfman	Rat tropomyosin gene control

URP name	University	Advisor	Research Project
1989			
Doug Adler	SUNY, Binghamton	B. Moran	Cloning the retinoblastoma gene in baby rat kidney cells
Lisa Bellavance	Drake University	L. Field	Organ dysgenesis in IV/- mice
Ron Bose	University of Rhode Island	K. Arndt	Analysis of suppressors of sit4
Ross Breckenridge	Cambridge University	D. Marshak	Purification of HeLa p34 cdc2 using a novel assay
Ivan Brockman	Cornell University	B. Futcher	whi4 is a mutant of S. cerevisiae that may actually be Whi1-1
Franco Carlotti	Cambridge University	A. Rice	Properties of mutants within the cysteine-rich region of the HIV tat protein
Nancy Fan	Harvard University	A. Stenlund	Synchronization of bovine papilloma virus-transformed mouse cells using centrifugal elutriation
Ellen Gadbois	College of St. Catherine	B. Stillman	Purification of a yeast protein equivalent to human RF-C
Amy Kistler	University of Pennsylvania	D. Helfman	Generation and purification of beta skeletal muscle tropomyosin and two novel carboxy-terminal beta tropomyosin chimeras
Karen Kopecek	Franklin & Marshall College	J. Kuret	The feasibility of using direct expression cloning to determine downstream components of signal transduction pathways
James Lister	Pomona College	N. Hernandez	Analysis of the A/T-rich region of the U6 snRNA promoter by site-directed mutagenesis
Steven Palmer	Wabash College	D. Bar-Sagi	Isolation of the membrane phospholipase A2 gene from rat brain cDNA in lambda gt11
Nives Pecina	University of Zagreb	A. Krainer	Reconstitution of snRNPs
Mika Sovak	Reed College	D. Spector	Effects of transcriptional inhibition upon the snRNP network
Martin Stoddart	Cambridge University	M. Mathews	Secondary structure determination of virus associated RNAs (VA RNAs)
Karen Zito	Indiana University	W. Herr	Expression pattern of Oct-1 and Oct-2 in mice
1990			
Benjamin Abella	Washington University	B. Futcher	Telomere structure in aging fibroblasts
Luis Alvarez	UC, Los Angeles	V. Sundaresan	Mu-induced gene expression in maize
Clare Baker	Cambridge University	B. Stillman	Investigation of a 13-kD single-stranded DNA-binding protein from S. cerevisiae
Steven Chao	Harvard University	E. Richards	Cloning of TAS sequences of A. thaliana by complementation in YACs
Matthew Cockerill	Cambridge University	N. Hernandez	A sensitive assay for U1/U2 snRNA gene transcription in vitro
Arshad Desai	California State University, Los Angeles	J. Kuret	Solution of the 3-D structure of a protein kinase using site-specific mutagenesis to create sites for isomorphous replacement
Medeva Ghee	North Carolina State University	D. Frendewey	Analysis of snRNAs and snRNPs in fission yeast
Gilbert Henry	UC, Santa Barbara	D. Helfman	Isolation of the cDNAs encoding a putative S. Pombe tropomyosin and a novel actin-like protein
Chia-Suei Hung	Beloit College	J. Pflugrath/T. Marr	Purification and crystallization of proliferating cell nuclear antigen
David Immanuel	Wesleyan University	K. Arndt	Cloning of SDS1, a gene which suppresses a deletion of SIT4
Michelle Lozeron	University of Wisconsin	T. Peterson	Restriction mapping of the P mosaic allele of maize
Monn Monn Myat	Mount Holyoke College	A. Krainer	Purification and characterization of U2 snRNP auxiliary factor
Stanford Peng	Stanford University	D. Spector	Eukaryotic RNA levels after heat shock
Urmas Saarma	Tartu University	A. Stenlund	Generation of an expression vector for the replication protein E1 from bovine papilloma virus
Angela Wilson	University of Wisconsin	D. Marshak	Molecular analysis of the expression of neurotrophic factor S100b
John Yates	University of Glasgow	D. Bar-Sagi	Sequencing of PLA2 from muscle and liver, using PCR and subcloning techniques
Ann Yonetani	University of Pennsylvania	G. Morris	Characterization of an Alu sequence transcribed from the human PCNA promoter
Karen Zito	Indiana University	W. Herr	Study of transcriptional activation by Oct-2, a lymphoid octamer binding protein
1991			
Joseph Beauchamp	SUNY, Cortland	T. Petersen	Investigation of mosaic pericarp color in maize
David Birschbach	University of Wisconsin, Madison	K. Arndt	Identification of suppressor of transcription (SIT) mutants in S. cerevisiae
Lisa Catapano	Dartmouth College	T. Marr	Short functional elements in DNA
Clark Chen	Stanford University	B. Stillman	Cloning the human homologue of S. cerevisiae CDC7 gene using cross-species complementation
Marie-Dominique Galibert	Rene Descartes University	M. Mathews	Characterization of DNA sequences mediating the transactivation of PCNA by E1A
Leena Gandhi	University of Utah	A. Stenlund	BrdU density-labeling analysis of BPV replication in rodent cell lines
Per Gesteland	Allegheny College	D. Bar-Sagi	The elucidation of possible upstream regulators of the ras protein in the process of T-cell activation
Flaviano Giorgini	Purdue University	J. Kuret	Solution of the 3-D structure of the catalytic subunit of the cAMP-dependent protein kinase from S. cerevisiae following a mutagenic approach
Gilbert Henry	UC, Santa Barbara	W. Herr	An analysis of the binding specificity of two Pou domain proteins: Oct-1 and Pit-1
Christina Hull	University of Utah	C. Greider	Direct assay for telomerase primer binding
Lei Meng	Barnard College	B. Futcher	Searching of a new CLN-like gene by screening an S. cerevisiae genomic library
Juan Moreno	UC, Irvine	N. Hernandez	A PCR approach for the identification of the cDNA encoding the largest subunit of human RNA polymerase III
Adam Oates	Newcastle University	H. Ma	Analysis of the agamous gene product in yeast
Johanna O'Dell	Beloit College	R. Martienssen	A new PCR technique for cloning suppressible genes in maize
Frank Papanikolaou	University of Toronto	J. Pflugrath	Study of the neurite extension factor S100b
Jennifer Saeger	Cedar Crest College	D. Helfman	Isolation and identification of a cDNA encoding the polypyrimidine tract binding protein
Melissa Slawecki	Dickinson College	J. Anderson	Crystallization and x-ray diffraction analysis of R. Pvu II
David Stark	Cambridge University	N. Tonks	Use of the PCR to identify the complete complement of protein tyrosine-phosphotases (PTPases) present in two PC12 cells
Ekaterini Tsapos	Harvard University	R. Franza	Characterization of NF-kB/p105 and cRel
Jin Yang	SUNY, Oneonta	E. Richards	Structure and function of telomere-associated sequences
1992			
Kenneth Bilchick	Dartmouth College	J. Anderson	Purification, crystallization, and structure determination of R. Pvu II methylase protein
Chad Brecher	Brown University	D. Marshak	Examination of the mechanism of action of S100b and determination of the interaction of S100b and ß-amyloid (1-40) in the C6 rat glioma cell line and newborn rat astrocytes
Daniel Cahill	Yale University	J. Pflugrath	Structure determination of S100b
Howard Chang	Harvard University	M. Mathews/G. Morris	Mechanism of transactivation of the human PCNA promoter by the 243-amino acid E1A protein
Victor Chua	Cambridge University	A. Krainer	In vivo functional analysis of the general splicing factors SF2 and hnRNP A1
Leena Gandhi	University of Utah	A. Stenlund	Analysis of the interaction between E1 and E2 in cooperative binding of the BPV origin of replication
Keow Lin Goh	California Institute of Technology	R. Martienssen	Molecular cloning and characterization of the ramosa 1 mutant of maize
Sam Haward	Cambridge University	V. Sundaresan	Devising and testing a screening system for selecting for transposable element

URP name	University	Advisor	Research Project
			insertions into Arabidopsis plants
Gilbert Henry	UC, Santa Barbara	W. Herr	Transcriptional activation domains
JoAnn Hong	Yale University	D. Bar-Sagi	The effect of GRB2 overexpression in NIH 3T3 fibroblast cells containing moderately high levels of wild type p21 Ras
Fraser Imrie	University of Glasgow	T. Tully	Molecular cloning of linotte, a new learning and memory gene in Drosophila
Ingrid Kelly	Cambridge University	T. Peterson	Purification of antibodies to the P-gene in maize
Laurie Littlepage	University of North Texas	B. Futcher	Suppressing the lethality of WH13 overexpression in S. cerevisiae
Rachna Ram	UC, Berkeley	H. Ma	Differential hybridization screening for floral organ-specific cDNAs in A. thaliana
Rustam Rea	Oxford University	N. Tonks	Investigation of the phosphorylation of two, cytosolic protein tyrosine phosphastases
Adam Ross	University of Michigan	R. Franza	Initial characterization of human I-kappa B and other Rel-associated proteins
Anjanette Searfoss	Juniata College	K. Arndt/A. Doseff	Cloning of SAP-4, an SIT4-associated protein
Anna Sessler	Allegheny College	J. Kuret	Cellular localization of the protein kinase CKI-1 in S. cerevisiae
Wenying Shou	Pomona College	T. Marr	Dispersed pattern recognition in a group of proteins
Rebecca Smith	Bard College	B. Stillman/S. Bell	Elucidation of ORC binding to S. cerevisiae ARS1 through high-resolution footprinting
Michael Walsh	Tuskegee University	E. Richards	Study of variant telomere repeats in A. thaliana
Jennifer Whangbo	UNC, Chapel Hill	R. Davis	An approach to studying the molecular basis of behavior in mammals through the use of promoter-trap mice
Lucie Yang	University of Maryland	D. Helfman	Identification of a cellular factor blocking splicing of a skeletal muscle-specific exon in nonmuscle cells
1993			
Diane Alonso	Claremont College	X. Cheng	Determining the role of the glutamine residue in the binding and sequence recognition by the Hha1 methyltransferase
Nadine Bewry	Tennessee State University	D. Helfman	The role of the polypyrimidine tract binding protein (PTB) in the regulation of alternative splicing in the rat b-tropomyosin gene
John Birney	Oxford University	A. Krainer	mRNA splicing in mammalian cells
Keith Brennan	Cambridge University	M. Gilman	Activation specificity of SRF and Phox1
Julie Carruthers	UC, Santa Cruz	H. Ma	Assay for the function of the AGAMOUS gene of A. thaliana in yeast using a fusion construct of the AGAMOUS DNA binding domain and the GAL 4 activation domain
Andrea Castillo	Albertson College	R. Martienssen	A simple method for cloning mutator-suppressible mutants in maize using PCR
Howard Chang	Harvard University	K. Arndt	Genetic dissection of the signaling pathways that activate G1 cyclin expression
Nupur Ghoshal	Iowa State University	R. McCombie	Applications of automated fluorescence sequencing in a large-scale random and directed sequencing project
Stephanie Knabe	Pomona College	T. Tully	Effects of dunce mutations on habituation of a jump reflex in Drosophilia
Frank Lee	Duke University	A. Silva	Study of spatial learning and synaptic plasticity in NF1 mutant mice and a-Ca2+ calmodulin-dependent kinase II (aCaMKII)/NF1 double mutant mice
Eric Liao	Stanford University	Y. Zhong	Immunocytochemical mapping of PACAP-like neuropeptide distribution in the third instar larval and adult CNS and PNS of Drosophila
Laurie Littlepage	University of Texas at Austin	B. Futcher	Use of the two-hybrid screen to find proteins associated with Cln2, Cln3 and other cell cycle proteins
Michele Pierre-Louis	Brown University	W. Herr	Protein-protein interactions between virion protein-16 and the Oct-1 transcription factor as a study in the role of a DNA binding domain in regulating transcription
Marko Piirsoo	Tartu University	A. Stenlund	Studies on the functions of M protein in BPV-1 replication
Marta Rosario	University of Glasgow	M. Wigler	Detection of specific protein-protein interactions in the mammalian Ras signal transduction pathway using the two-hybrid system
Carolyn Ruddell	University of Liverpool	D. Beach	Identification of novel proteins which physically interact with cell cycle regulators, using the two-hybrid screen in S. cerevisiae
Wendy Schaub	Beloit College	J. Kuret	Determining the functional role of members of the casein kinase I family of proteins
Patricia Sung	University of Texas, Austin	V. Sundaresan	The use of inverse polymerase chain reaction for amplifying Arabidopsis genomic sequences flanking transposed Ds elements
Fiona Thistlethwaite	Cambridge University	B. Stillman	Subcloning and expression of Mcm2
1994			
Omar Antar	Harvard University	X. Cheng	Towards solving the 3-D structure of p16: crystallization trials
Nadine Bewry	Tennessee State University	H. Cline	BDNF in the development of retinal axon arbors in Xenopus
Timothy Chan	Harvard University	D. Beach	The p21 cyclin-dependent kinase inhibitor modulates DNA repair by association with a cyclin-like uracil-DNA glycosylase
Jonathan Chubb	Cambridge University	G. Enikolopov	Synaptotagmin II targeting
Hannah Cross	Cambridge University	R. Martienssen	Isolating a derivative allele in Arabidopsis
Michelle DaCosta	Yale University	A. Stenlund	Characterizing E2
Daniel Debowy	Yale University	M. Hengartner	Construction and modification of epidomes for a two-hybrid system assay on the C. elegans programmed cell death suppressor protein CED-9
Romy Hoque	Columbia University	T. Marr	Hydrophobic character of transcriptional activation domains
Jerry Hsu	Harvard University	H. Nawa	The identification of a possible agrin isoform in the rat brain
Frank Lee	Duke University	A. Silva	Mutation of the NF1 GTPase activating protein (NF1-GAP) and a CaMKII gene in transgenic mice affects synaptic plasticity and performance on learning tests
Ulo Maivali	Tartu University	M. Mathews	Studies on unusual translation in mammalian cells
Steve Miller	Pomona College	A. Sutton	Molecular and genetic analysis of PDL3
Jill Nemacheck	Purdue University	V. Sundaresan	Cloning and analysis of indeterminate
Elizabeth O'Connor	C.W. Post College	M. Wigler	Cloning homologues of S. pombe morphogenic and mating genes from Drosophila and humans
Loren Pena	Duke University	W. Herr	Exploring the cellular function of host cell factor (HCF)
Samanthi Perera	Mount Holyoke College	A. Krainer	Selection for high-affinity binding sequences in RNA for hnRNP A2 and B1
Caroline Roberts	Cedar Crest College	E. Grotewold	Myb homologues in Arabidopsis flowers
Elaine Round	Washington University	K. Arndt	Characterization of CTR9
Ibis Sánchez-Serrano	Iowa State University	T. Tully	Comparisons between cs, linotte, and nalyot brains
Thomas Su	UC, Los Angeles	H. Ma	Investigation of AGL2 DNA binding
Yong Yu	University of Utah	B. Stillman	Characterization of the CAF-I large subunit p150
1995			

URP name	University	Advisor	Research Project
Jennifer Ames	University of Pittsburgh	D. Beach	A strong correlation has been established between telomerase activity and cell immortalization
Neeraj Arora	Cambridge University	T. Tully	Planimetric analysis of brain structures in the Drosophila learning mutants latheo and linotte
Rebecca Blankenburg	California Institute of Technology	Y. Zhong	Ras signal transduction pathway involvement in Drosophila synaptic plasticity and cell patterning
Tanita Casci	University of Glasgow	M. Hengartner	The characterization of the genes and molecules that participate in the programmed cell death (PCD) pathway of the nematode worm, C. elegans
Michelle DaCosta	Yale University	A. Stenlund	Examining the interaction of the BPV E2 hinge with the E1 protein.
Katharine Eklof	Rice University	R. McCombie	Analysis of ORF expression in S. pombe
Rebecca Farkas	Yale University	H. Ma	FON1 and floral developmental genetics
Christine Ford	Bellarmine College	E. Grotewold	Characterization of proteins in flavonoid biosynthetic pathway
Nathan Hellman	Yale University	G. Enikolopov	Mechanisms by which synaptic vesicles dock, fuse, and endocytose with the presynaptic terminal membrane during synaptic transmission
Brian D. Hoerneman	University of Wisconsin	B. Stillman	Construction and utilization of multicopy libraries to screen for suppressors of a conditional mutation in the 58–kD subunit of POL–α/primase
Emmitt R. Jolly	Tuskegee University	D. Helfman	Comparisons of protein factors in muscle and non-muscle cell types that may regulate alternative RNA splicing
John Kehoe	Northwestern University	R. Kobayashi	Increasing the sensitivity of protein sequencing
George Laszlo	Oberlin College	A. Silva	Mutations of the NF1 gene in humans lead to the most common inherited neurological disease characterized by learning disabilities
Miro Pastrnak	Wabash College	A. Krainer	Expression of human SR proteins in yeast
Loren del Mar Peña	Duke University	W. Herr	Cloning the C. elegans host cell factor gene
Elizabeth Pinches	Cambridge University	H. Cline	Synapse distribution on the retinotectal projection of Xenopus
Cynthia Snyder	Colorado State University	C. Greider	Human telomerase RNA
Hana Sugimoto	Wellesley College	K. Arndt	Sequencing of SAP4 clone and isolation of SAP190 ts mutants
Pei Lin Tan	Mount Holyoke College	S. Gunnery	Termination signal of RNA polymerase III (Pol III) transcription
Rachel Ventura	Harvard University	X. Cheng	Towards solving the 3-D structure of p16: crystallization trials
Kevin Wang	Stanford University	V. Sundaresan	Isolation and characterization of embryo-specific genes in Arabidopsis using insertional trap transposons
Audrey Wells	University of New Mexico	R. Martienssen	Characterization of the Arabidopsis genome
1996			
Nadeem Ali	Cambridge University	H. Cline	NO and neuronal development
Martha Betson	Cambridge University	L. Van Aelst	Isolation of a full-length clone for POR3, a novel rac-binding protein
Casey Blegen	University of Wisconsin	K. Arndt	Isolation of high-copy suppressors of the growth defect caused by overexpression of both SIT4 and SAP155
Bilyana Georgieva	Mount Holyoke College	B. Stillman	DNA replication: construction and study of replication factor C (RFC) conditional mutants
Jennifer Gervais	Yale University	G. Hannon	A gene-tagging retroviral technique using p53 and its transcription factors
Jarret Glasscock	University of Arizona	Y. Zhong	CREB and the signal transduction pathway
Michael Goller	Pennsylvannia State University	Y. Lazebnik	Characterization of apoptosis-relevant endonuclease activity
Christina Grozinger	McGill University	W. Herr	Determination of human cellular proteins interacting with the carboxy terminus of HCF via the yeast two-hybrid system
Stephen Haggarty	University of British Columbia	B. Futcher	G1 progression and the molecular basis of Start in the cell cycle of the yeast S. cerevisiae
Saul Kivimäe	Tartu University	A. Stenlund	Interaction of papillomavirus E1 and E2 proteins at the viral origin of replication.
Tracy Litzi	Cedar Crest College	E. Grotewold	PCR-based screening of a Mu grid in maize
Valerie Maier	University of Glasgow	R. McCombie	Expression pattern analysis of open reading frames (ORFs) identified by computational analysis in S. pombe
Jonathan Montagu	Oxford University	P. Nestler	The search for a potent and selective inhibitor of PTP-1B
Teresa Niccoli	Cambridge University	A. Krainer	Analysis of PRP 18 binding properties
Betty Nyein	Massachusetts Institute of Technology	J. Yin	Characterization of the S162 mutation in CREB
Viktoriya Paroder	SUNY, Stony Brook	D. Beach	Enrichment and isolation of cDNAs from a known region of a chromosome
Geralda Parvilus	Tuskegee University	M. Hengartner	Temporal control of gene expression in the nervous system of the nematode, C. elegans
Govindan Ramanathan	Rochester Institute of Technology	G. Enikolopov	NO synthase in the development of Drosophila
Gloria Jessica Salas	Florida International University	R. Kobayashi	Isolation and sequencing of endoprotease Asp-N
Joshua Silverman	UC, San Diego	D. Spector	Behavior of SC35 (a splicing factor) with regard to transcription
Nathan Springer	SE Missouri State University	R. Martienssen	Molecular and developmental characterization of bladeless2, a maize leaf development mutant
Audrey Wells	University of New Mexico	T. Tully	Development of molecular genetic tools in Drosophila
1997			
Nizar Batada	Carleton University	P. Nestler	Screening and detection of substrates of apoptotic protease, CPP32
Richard Benton	Cambridge University	R. Martienssen	Use of gene-trap and enhancer-trap systems to determine pattern formation in the vegetative development of Arabidopsis
Scott Berkowitz	Yale University	Y. Lazebnik	Searching for substrates of apoptotic proteases
Jay Bikoff	Brown University	J. Yin	Regulation of the subcellular localization of the dCREB2 transcription factor
Joshua Busch	Emory University	H. Ma	Immunological analysis of AGAMOUS
Alice Chu	Drew University	T. Tully	Alternate cDNA copies of latheo, a gene implicated in associative learning in Drosophila
Andreas Demetriades	University College, London	H. Cline	Analysis of aberrant axon trajectories in homer-expressing neurons
Daniel Desrosiers	Saint Anselm College	J. Skowronski	Deletion analysis of HIV-1 Nef
Yanfei Feng	Peking University	Y. Zhong	Yeast two-hybrid system screen for interactors of Drosophila NF1 and rutabaga adenylyl cyclase
Andrew Fry	University of Glasgow	L. Van Aelst	Rac small GTPase and exchange factor TIAM1: an investigation of T-cell adhesion
Christina Grozinger	McGill University	W. Herr	Determination and characterization of the DNA binding site of the transcription factor LZIP
Alberto Hazan	Harvard University	G. Enikolopov	Transcription initiation in Drosophila nitric oxide synthase
Robert Klein	Harvard University	M. Zhang	A computational description of the interaction between the transcription factors E2F and Sp1
Kirstin Knox	Swarthmore College	S. Lowe	A genetic analysis of Ras-induced cell cycle arrest
Carson Miller	College of Wooster	U. Grossniklaus	Molecular and genetic analysis of an enhancer detector line affecting megagametophyte development in Arabidopsis
Andrew Miner	Duke University	D. Spector	Biochemical characterization of pre-mRNA splicing factor pools in vivo
Geralda Parvilus	Tuskegee University	M. Hengartner	Temporal control of gene expression in the nervous system of the nematode, C. elegans
Nikos Reppas	Oxford University	B. Stillman	The interaction of DNA polymerase α-primase with the origin recognition complex (ORC) in S. cerevisiae
Joel Stern	Columbia University	A. Silva	The N-ras heterozygous mutation rescues the spatial learning deficits caused by the NF1 heterozygous mutation

URP name	University	Advisor	Research Project
Milos Tanurdzic	University Novi Sad	E. Grotewold	Identification of additional factors interacting with regulators of flavonoid biosynthesis
Elizabeth Thomas	Evergreen State College	A. Krainer	Characterization of p54, a putative splicing factor
Hung Tran	Columbia University	M. Wigler	Characterization of the binding partners of the tumor suppressor gene PTEN
Keren Witkin	Wellesley College	R.-M. Xu	Purification and preliminary crystallization studies of UNC-69
1998			
Thomas Bridges	Cambridge University	T. Tully	The cloning of the human homologue of the Drosophila learning gene linotte
Brian Chan	Harvard University	M. Zhang	Computational analysis of intronic elements involved in alternative splicing
Curtis Chong	Harvard University	L. Joshua-Tor	Crystal structure of D-cysteine bound to carboxypeptidase A at the 1.75 Å resolution
Serafin Colmenares	University of Hawaii	N. Hernandez	Structure-function analysis of the FBI-1 zinc finger domain
Ruth Cosgrove	Cambridge University	D. Spector	Visualization of RNA in the living cell
Justin Cross	Cambridge University	L. Van Aelst	The functional characterization of AF-6, a Ras binding protein
Wei Cui	UC, San Diego	P. Nestler	Detection by fluorescence of protease substrate specificity using encoded combinatorial library
Rachel Dodes	Cornell University	M. Hengartner	Toward determining function of CED-9 interacting proteins in C. elegans
Maitreya Dunham	Massachusetts Institute of Technology	R. Martienssen	Molecular genetics of asymmetric leaves 1 in Arabidopsis
Kristina Gremski	Yale University	U. Grossniklaus	tlazolteotl: a mutation affecting ovule development and female fertility in Arabidopsis
Kristin Hendren	Duke University	R.-M. Xu	Purification and crystallization studies of the human cell cycle protein hCDC34
Zainab Khalfan	Cedar Crest College	D. Jackson	Determination of cell-to-cell trafficking of the maize KNOTTED-1 protein via grafting
Shujin Luo	Peking University	H. Ma	Isolation of genes expressed in flower development using enhancer trap and gene trap
Todd Morgan	Harvard University	B. Stillman	Human CDC45: the homolog of a yeast replication origin protein
Jason Moss	Duke University	R. Kobayashi	Improved techniques for MALDI-MS analysis of large proteins
Masafumi Muratani	University of Tsukuba	W. Tansey	Transcriptional activation domains that signal protein destruction
Sabine Nicoleau	Wesleyan University	W. Herr	The protein interactions that occur with a specific region of a nuclear host-cell factor called HCF
Audra Norris	Reed College	R. McCombie	Sequence analysis of maize ESTs
Rithwick Rajagopal	Cornell University	G. Enikolopov	Mapping Drosophila nitric oxide synthase using the yeast two-hybrid system
Matthew Robbins	Yale University	G. Hannon	Identification of secreted proteins overexpressed in human breast cancer using a secretion trap screen
Patrice Saunders	Howard University	D. Helfman	Adhesion-dependent signaling transduction: normal versus transformed cells
Markus Seeliger	University of Hannover	Y. Lazebnik	Studies on protein-protein interactions of caspase 9
Eva Smietana	Indiana University	S. Lowe	Genetic and biochemical analysis of c-myc induced apoptosis in primary mouse embryonic fibroblasts
1999			
Kelly Brown	Harding University	B. Stillman	An essential gene for DNA replication.
Kevin Christie	College of William and Mary	A. Neuwald	A computational system for comprehensive sequence analysis for protein domains.
Heather Cosel-Pieper	New York University	M. Hengartner	Toward an understanding of apoptosis in C. elegans.
Adriano Costa de Alcantara	Universidad Federal da Bahia	M. Zhang	First steps in building up a C. elegans promoter database.
Andrew Cotton	Harvard University	R. McCombie	An ASN.1 to XML converter.
Justin Cross	Cambridge University	L. Van Aelst	The role of Rap and AF-6/canoe in the control of cell morphology and adhesion.
Benjamin de Bivort	Duke University	Y. Zhong	Proteins in learning and memory: Morphology of the Drosophila neuromuscular junction.
Daniella Dumitriu	UC Santa Barbara	H. Cline	Behavioral assessment of visual acuity development in Xenopus tadpoles.
Fazila Pinar Erciyas	Bogazici University	R.-M. Xu	Purification and crystallization of S. cerevisiae ORC1-BAH domain
Rebecca Ewald	King's College London	S. Lowe	Comparison of gene expression profiles of p53-mediated growth arrest and p53-mediated senescence.
Sashay Franklyn	Harvard University	S. Grewal	Characterization of Clr6 histone deacetylase.
Satoshi Kawashima	University of Kobe School of Medicine	Y. Lazebnik	Epitope mapping by protein fragmentation.
Maithreyi Krishnaswami	Hobard and William Smith Colleges	D. Jackson	Regulation of shoot morphogenesis in plants: Studying an altered phyllotaxy in maize.
Silja Kuusk	Tartu University	A. Krainer	In vitro selection for exonic splicing silencers.
Ben Lehner	Cambridge University	R. Martienssen	Molecular characterization of the gene Argonaute in A. thaliana and S. pombe.
Marco Mangone	University of Rome	L. Stein	In silico mapping of human single nucleotide polymorphisms.
Catherine Merrick	Cambridge University	M. Timmermans	Analysis of the leafbladeless1 mutant of maize.
Fernando Ontiveros-Llamas	National Autonomous University of Mexico	D. Spector	Ultrastructural visualization of a genetic locus and the pathway followed by its RNA.
Bryce P. Portier	Texas A & M University	B. Futcher	Exploring the active site of a cyclin-dependent kinase.
Jamil Scott	Tennesee State University	W. Tansey	Characterization of the transcriptional repressor region in Myc.
François St-Pierre	Cambridge University	L. Joshua-Tor	Investigating the active site of human bleomycin hydrolase.
Megan Sullivan	Indiana University	T. Tully	Testing two approaches of concurrent spatial and temporal control of gene expression in Drosophila.
Natasha Thorne	University of Massachusetts	G. Hannon	Construction of a cDNA library of secreted and cell surface proteins: A strategy to identify diagnostic markers for breast cancer.
Michael Verzi	The College of New Jersey	G. Enikolopov	Alternative splicing of the Drosophila nitric oxide synthase gene.
Keith Wu	Cambridge University	W. Herr	Role of the VP16 core and transcriptional activating regions in HSV virion formation.
Trevor Ming-Yee Yeung	Cambridge University	D. Helfman	An investigation into one postulated mechanism regulating the distribution of tropomyosin in human SV80 fibroblasts.
2000			
Michelle Aaron	Clarion University	A. Krainer	Exon Definition and Alternative Splice Site Selection in AT-AC Intron Splicing
Sarah Addou	University College, London	L. Stein	Genetic Map Display for ACEDB
Tariq Ahmad	New York University	R. Kobayashi	Phosphorylation Site Analysis of p62 (dok)"
Sarah Archer-Evans	University of Texas	D. Jackson	Expression and Sequence Analysis of fasciated ear2 in maize

URP name	University	Advisor	Research Project
Natalia Caporale	University of Buenos Aires	Z. Mainen	Individual Recognition and its Neuronal Representation in the Olfactory Bulb
Daniela Cohen	Yale University	Y. Zhong	The Role of Notch in Activity-Induced Synaptic Plasticity
John D'Amore	Harvard University	R. Manilow	The Surface Expression of NMDA Subunits
Ahmed Elewa	Cairo University	M. Hengartner	A Stroll Through the Gonad: Measuring Proliferation Kinetics in the Germ Line of Caenorhabditis elegans"
Sarah Hart	Cambridge University	W. Tansey	The Characterization of the F-box Protein BAA7
Joan Hu	Washington University	R.-M. Xu	Toward the Structural Study of Pre-mRNA Splicing Factors
Mario Izaguirre-Sierra	National University, Mexico	D. Spector	Does Actin Play a Role in Nuclear Structure?
Charles Kopec	Rutgers University	R. Martienssen	Expanding on a Model for Ramosa's Function in Zea Maize
Guillermo Munoz-Elias	Rutgers University	H. Cline	Lending Ears to Silent Synapses: Expression and Regulation of Calcium-Permeable AMPA Receptors in the Retinotectal System of Xenopus
Abdullah Ozer	Bilkent University	Y. Lazebnik	Construction of Single-Chain Antibodies against Caspase-7, Caspase-9, and APAF-1
Ramya Rajagopalan	Cornell University	R. McCombie	Sequencing of a Tomato BAC; Analysis of Promoter Regions of Nodulin-Like Genes in Arabidopsis thaliana
Michael Ryczko	Laurentian University	T. Tully	Adf-1 Transcription Factor and Synapse Formation in Drosophila melanogaster
David Schlesinger	Brigham Young University	L. Van Aelst	Molecular Characterization of Oligophrenin-1
Despina Siolas	St. Johns University	G. Hannon	Developing a phenotype array using RNA interference in Drosophila S2 Cells
Wisuwat Songnuan	Duke University	M. Timmermans	Repression of Homeobox Genes by Rough Sheath-2 in Maize Lateral Organ Primordia
Frederick Tan	Worcester Polytechnic Institute	A. Neuwald	Rapid Sequence Alignment Against Hidden Markov Models
Dougal Tervio	Oxford University	T. Zador	Pitch in the Primary Auditory Cortex of the Rat
Maria Vichnevskaia	University of Bridgeport	M. Zhang	Identification of CREB Targets in Drosophila melanogaster
Kevin Vogell	UC Berkeley	G. Enikolopov	Nitric Oxide Signaling in Early Xenopus Development
Douglas Weinstein	Duke University	L. Joshua-Tor	Determining the Crystal Structure of E1 DBD in BPV and HPV
Eileen Woo	Harvard University	B. Stillman	Characterization of the Human Hus1, Rad1, and Rad9 Cell Cycle Checkpoint Proteins: A Putative PCNA-like Complex
Trevor Yeung	Cambridge University	D. Helfman	An Investigation into the Importance of a 13-aa Trigger Sequence in Mediating the Dimerization of LMW Tropomyosin
2001			
Brain Adkins	Tuskegee University	M. Hamaguchi	A Study of the DBC2 Gene: Tumor Suppressor Candidate in Breast Cancer
Gautam Agarwal	University of Texas	Z. Mainen	Discriminability and Coding of Odors in the Olfactory Bulb
Seth Bechis	Harvard University	L. Joshua-Tor	Purification and Crystallization of the Replication Initiation Protein of the Human Papillomavirus High-Risk Strains
Alicia Berger	University of Colorado	G. Hannon	Creation of a Phenotype Array Using RNA Interference in Drosophila S2 Cells
Kelly Biddle	Rice University	D. Jackson	Intercellular Trafficking of Transcription Factors in Arabidopsis
Laura Burrack	Macalester College	B. Stillman	Complex Formation and Function of scMcm Proteins in Initiation of DNA Replication
Alison Carey	Pennsylvania State University	J. Yin	Identification of Molecular Partners for the Memory Protein DaPKCz
Raymond Chen	Harvard University	W. Tansey	Myc: the Unphosphorylated, the Phosphorylated, and the Imposters
Yao Chen	Cambridge University	K. Svoboda	Project I: Visualizing mRNA Trafficking in Living Neurons
Benjamin DeBivort	Duke University	Y. Zhong	Roles of Notch and NF1 Proteins in Activity-Dependent Synaptic Plasticity
Carolyn Dong	University of Massachusetts	D. Spector	Modulation of Transcriptional Activity by Nuclear Positioning
Jovana Drinjakovic	Oxford University	Y. Lazebnik	Oncogenes Induce Cell Fusion
Elizabeth Fingar	Ohio University	H. Cline	Homer Constructs in the Xenopus Visual System
Lindzy Friend	University of Evansville	A. Krainer	Investigating the Relationship between UP1 and Telomeric DNA using Footprinting Techniques
Laurie Friesenhahn	Texas A & M University	S. Grewal	Histone H3 lys9 Methylation and Epigenetic Silencing in Schizosaccharomyces pombe
Elizabeth Head	University of Minnesota	R. Martienssen	Characterizing Three Putative RNAi Genes in S. Pombe
Michael Hoffman	University of Texas	M. Zhang	AtProbe: Arabidopsis thaliana Promoter Binding Element Database
Lindsay Huftman	Cambridge University	L. Van Aelst	Identification of oligophrenin-1 binding partners in brain
Shantanu Jadhav	Indian Institute of Technology	T. Zador	A Psychophysical Investigation of the Effect of Attention on Auditory Stream Segregation, and A Statistical Analysis of Sounds
Meelis Kadaja	Tartu University	A. Stenlund	The Effect of Tumor-Suppressor Protein p53 on BPV-1 Replication in Vitro
Joseph Markson	Harvard University	J.Huang	Bioinformatic Approach to Mechanisms of GABAergic Cell-Type Specific Gene Expression
Julie Plocher	University of Illinois	M. Timmermans	Rough sheath2: How to keep hormones under control
Timothy Sonbuchner	Gustavus Adolphus College	G. Enikolopov	Expression of Nitric Oxide Isoforms in Hematopoetic Stem Cells
Lakshmi Swamy	University of Georgia	L. Stein	The Mining of Miniature Inverted-Repeat Transposable Elements in Rice
Christopher Wilson	Kalamazoo College	R. Manilow	Involvement of spontaneous activity in the phosphorylation of GluR1/4 by PKA
2002			
Gautam Agarwal	University of Texas	Z. Mainen	Modeling Odor Recognition by Neural Synchrony
Michalis Agathocleous	Trinity College	H. Cline	CPG Expression Changes Tyrosine Phosphorylation In Vivo
Hiroki Asari	University of Tokyo	M. Hamaguchi	Suppression of Dbc2 by RNA Interference
Sherry Aw	University of Wisconsin	D. Jackson	Protein Trafficking via plasmodesmata in Arabidopsis thaliana
Anna Belkina	Russian State Medical University	D. Helfman	Characterization of S100A4 Function
Thomas Denkenberger	Pennsylvania State University	A. Stenlund	Studies of the Bovine Papillomavirus E1 Helicase
Winfred Frazier	Univerrsity of Houston	S. Muthuswami	Phenotypic Consequences of Activating ErbB2 Receptor Mutants in Epithelial Cells
Daniel Herman	MIT	G. Enikolopov	Characterization of Noxin1 Function using Hairpin RNA Interference
Jonathan Hertz	MIT	J.Huang	Subcellular Localization of Protocadherins in GABAergic Interneurons and their Role in Synaptic Plasticity
Honor Hsin	Harvard University	R. Manilow	Neurons ReAsHed: Imaging a Molecular Model of Memory
Rachel Kalmar	USCD	T. Zador	How does the Auditory Cortex encode Complex Sound
Renatta Knox	Harvard University	D. Spector	Visualizing UAP56 in Living Cells
Erin Kurten	University of Wisconsin	W. Tansey	Developing Tools to Study Interactions between the Proteasome and Med 8
Cindy Lee	SUNY Stony Brook	J. Yin	Molecular Mechanism of Atypical PKM Regulation
Cory Lindsay	Wayne State College	E. Hatchwell	A Common Microdeletion at 8q24.3: Population Frequency Analysis
Jamie Newman	Amherst College	Y. Lazebnik	Can Primus Regulate Apoptosis

URP name	University	Advisor	Research Project
Jacqueline Ou	Duke University	M. Zhang	Toward Genome-Wide First Exon Annotation: Computational Prediction and Experimental Protocol
Fatih Ozsolak	Washington University	R. Lucito	Gene Copy Number Changes in Breast and Prostate Cancers
Vishal Patel	University of Illinois	L. Joshua-Tor	Expression, Purification and Crystallization Trials of Candidate Plasticity Gene 15
Marisa Rodriguez	Univerrsity of Houston	A. Mills	Using Chromosome Engineering to Study Functional Genomics
Grace Teng	Yale University	R. Martienssen	Analysis of Schizosaccharomyces pombe Centromeric Transcripts
Boo Shan Tseng	MIT	W. Herr	Life Without HCF-1: A Way to Create Siamese Cells
Lieven van der Veken	Leuven University	L. Van Aelst	Molecular and Cellular Characterization of Oligophrenin and Potential Partners
Sarah Whitcomb	Columbia University	G. Hannon	Attempting to assay RNA dependent RNA-Polymerase Activity of a Putative RdRp from Schizosaccharomyces pombe
Elisabeth Wurtmann	Carleton College	M. Timmermans	Regulation of knox Genes by rough sheath2 in maize leaf Initiation
2003			
Emily Anderson	Grinnell College	R. McCombie	Gene Prediction: An Assessment of Tools
Mollie Biewald	Columbia University	J. Dubnau	Oskar and Staufen: Visualizing Memory Formation
Christopher Brown	Clemson University	R. Lucito	Detecting Gene Copy Number Changes in Ovarian Cancer
Jessica Cardenas-Navia	Yale University	Y. Lazebnik	Development and Implementation of a Cell Fusion Tracking Assay
Rittik Chaudhuri	Duke University	D. Jackson	Potential Plasmodesmata Receptors in "Arabidopsis thaliana
Galen Collins	Wabash College	M. Timmermans	Understanding Asymmetric Leaves1 Repression of Knox Genes in Leaf Development
Catherine Del Vecchio		B. Tansey	An Investigation into Mediator Factor Med8 and its Potential Role in Ubiquitin-Medicated Proteolysis
Keisha John	University of Maryland	H. Cline	Determination of RNP Granule Composition in Dendrites
Daniel Jones	Pamona College	J. Huang	Characterization of GABAergic Interneuron Connectivity in Neocortex
Rafal Klajn	University of Warsaw	L. Joshua-Tor	Towards the Crystal Structure of BVP Protein E2
Henry Lin	Harvard University	M. Zhang	Comparative Genome Analysis
Gediminas Luksys	International University Bremen	T. Zador	Psychophysical Approaches in Solving the Cocktail Party Problem
Nicholas Manicke	University of Evansville	A. Mills	Investigating the Role of p63 in the Skin
Nina Marinsek	Cambridge University	R. Martienssen	The Role of RNAi in Chromatin Modification and its Interaction with DNA Metylation
John McIntyre	National University Ireland	S. Muthuswami	Gene Silencing and Growth Control in 3D Epithelial Cells
C. Michael Minder	University of North Carolina	R.-M. Xu	Exploring the Exon Junction Complex
Gabriel Orebi Gann	Cambridge University	M. Chklovskii	Connectivity and Interaction Strength of Paired Neurons
Shraddha Pai	University of Waterloo	L. Stein	Reconstructing the Evolutionary History of Olfactory Chemoreceptors in C. elegans and C. briggsae
Jonathan Schneiderman	Tel Aviv University	G. Hannon	A Species of RISC: Characterizing the Recruitment of Small Interfering RNA in the RNAi Pathway
Peter Slomiany	Connecticut College	E. Hatchwell	Mapping a Microdeletion using a Myriad of Methods including Microarrays and Polymorphisms
Lieven Van der Veken	Leuven Catholic University Belgium	L. Van Aelst	Oligophrenin, a Study of Interactions
John Walach	MIT	K. Svoboda	The Role of Neural Actin Binding Protein in Dendritic Spines Morphogenesis
Margaret Wat	Duke University	M. Hamaguchi	RNAi Knockdown of DBC2
Christine Wu	UC Berkeley	W. Herr	Investigating the Role of HCF-1 in Mouse F9 Cell Differentiation
Maria Zhadina	Brandeis University	D. Helfman	Characterization of p21 Function in Cell Motility
2004			
Juan Aragon	Armstrong Atlantic State University	G. Hannon	Mapping of the Interaction of the 5' end of the siRNA with Argonaute
Srinjan Basu	Cambridge University	S. Muthuswami	Role of par genes in cell proliferation
Johanna Berberena	Hunter College	J. Dubnau	Expression Study of Long-Term Memory Gene Thor (4E-BP)
Heeran Buhecha	Cambridge University	B. Stillman	Characterisation of hORC1 ubiquitination
Briana Burden	UCLA	L. Van Aelst	Molecular Characterization of DOCK7
John Colarco	University of Toronto	A. Krainer	SMN alternative splicing and Spinal Muscular Atrophy
Carol Cho	Seoul National University	L. Joshua-Tor	The Genetic Switch – Elucidating the Structural Components of the Gal Transcription System
Boaz Gildor	Tel Aviv University	E. Hatchwell	Gene expression analysis in putative centromere position effect
Katrina Gold	Cambridge University	R. Martienssen	How are RNA-dependent RNA polymerases and Dicers involved in microRNA-based gene regulation?
Emily Helcamp	Duke University	V. Mittal	A Role for Id1 and Id3 in Tumor Angiogenesis
Max Jan	Princeton University	D. Jackson	Characterization of a Defect in Protein Trafficking in Arabidopsis
Miranda Kim	Amherst College	R. McCombie	Epigenetic Modification in Cancer
Matthew Klein	Reed College	R. Manilow	How I failed to cure Alzhiemer's Disease in Ten Weeks
Amy Leung	Cornell University	Y. Zhong	Dissecting the pathological effects of Aß42 assemblies in the Drosophila Alzheimer's Model
Jacon Macke	Oxford University	K. Svoboda	Tracking Dynamics of Synapses in the Intact Brain
Pawel Mazur	Warsaw University	M. Timmermans	Characterization of miRNA166 expression pattern during leaf dorsoventral patterning in Arabidopsis
Carissa Meyer	Harvard University	M. Hamaguchi	Cell cycle mediated growth suppression of breast cancer cells by DBC2
Bao Pham	Trinity College	R. Sachidandam	Staufen: A Case Study in Evolution
Siddharth Srivastava	Columbia University	M. Zhang	Mapping pancreatic-specific promoters in zebrafish
Eric Sullivan	Wesleyan University	Z. Mainen	Is our children learning? Selective Attention and Set Shifting in Rodents
Beatrice Tapawan	Mt. Holyoke College	S. Lowe	Suppresion of target genes in the ATM-p53 pathway by RNAi
Nicholas Wall	California Institute of Technology	J. Huang	Development of Dendritically Targeted GABAergic Synapses in the Hippocampus and Neocortex
2005			
Vineeta Agarwala	Stanford University	M. Zhang	CTCF Binding Site Specificity and Distribution
Albert Almata	University of California at Irvine	A. Neuwald	Exploring the relationship between sequence, structure, and function in the alpha beta hydrolase fold family
Robert Carrasquillo	Washington University	R. Martienssen	Effects of Differential Methylation on Transposon Activation and Gene Expression in A. thaliana
Jonathan Chen	Oberlin College	G. Hannon	Utilizing RNAi to Identify Metastasis-associated Genes
Yaniv Erlich	Tel Aviv University	P. Mitra	Novel Wireless Sensor Network for Electrophysiology and Behavioral Research
Alexei Finski	International University Bremen	Z. Mainen	Two-photon imaging of spines and cell populations in head-fixed awake behaving animals
Dailia Francis	Hunter College	A. Mills	Novel Tumor Suppressor Gene(s) at Human 1p36
Wei Kevin Gan	Harvard University	B. Tansey	

URP name	University	Advisor	Research Project
Christopher Javadi	University of Texas at Austin	J. Dubnau	Drosophila deficiency mapping using whole-genome tiling arrays
Betty Kong	Rutgers University	V. Mittal	Developing an in vitro assay for studying the function of bone marrow-derived lineage depleted cells in vasculature formation.
Marek Kudla	Warsaw Univeristy	R.-M. Xu	Prp8 - the elusive structure of a crucial spliceosomal component
Scott Millman	Cornell University	A. Krainer	Mutational Analysis of the Oncogenic Activity of SF2/ASF
Alexandra Nica	International University Bremen	R. McCombie	Genome-wide SNPs detection in /Oryza sativa /strains using a massively parallel sequencing strategy
Krishnan Palaniappan	Carnegie Mellon University	B. Stillman	Binding of mitotic cyclins to Cdc6 and ORC as regulators of pre-replication complex formation.
Vanessa Ringgold	University of California at Davis	M. Timmermans	Investigations into the Affects of Asymetric Leaves 1 in Arabidopsis
Margot Rommens	University of Leuven	L. Van Aelst	Oligophrenin: where art thou? Detecting OPHN-specific phage clones for subsequent germ line manipulation in mice
Tasleem Samji	Cambridge University	S. Muthuswami	Silencing Par6a in Breast Epithelial Cell Lines
Christian Sanchez-Jordan	John Hopkins University	R. Lucito	High Throughput RT-qPCR: Narrowing the list of candidate tumor suppressor genes and ovarian other cancers
Nora Seidl	Cambridge University	D. Jackson	Isolation of FEA2 and associated proteins
Victoria Svinti	Nui Maynooth, Ireland	L. Stein	Programmed frameshifts in Paramecium
Thomas Takara	Grinnell College	L. Joshua-Tor	A structural investigation of papillomavirus replication initiation protein E1
Ye Wang	University of Rochester	C. Schultz	To Be Stem Cells, Or Not To Be
Kelly Wetmore	University of California Los Angeles	W. Lukowitz	Mapping Quantitative Trait Loci that modify mutations in SHORT SUSPENSOR, a predicted kinase regulating plant embryogenesis
Laura Wherity	Oxford University	A. Koulakov	Obtaining graded values of synaptic strength in the CaMKII and PP1 feedback loop in neurons
David Wurtz	Olin College of Engineering	Y. Lazebnik	
2006			
Katherine Amodeo	Marist College	V. Mittal	Role of tumor growth factor VEGF in bone marrow-dependent angiogenesis-mediated tumor growth
Lenore Barhak	The Cooper Union	L. Joshua-Tor	A Molecular View of Transcrptional Repression
Silivia Caballero	Hunter College	A. Mills	Gene targeting of a novel tumor suppressor gene *chd5* in mouse embryonic stem cells
Joseph Calarco	University of Toronto	S. Muthuswami	The relationship between Erb-B2, the Par polarity complex and apoptosis
Angelica Contero	Swarthmore College	H. Cline	The Effect of Visual Stimulation on GABA Expression Patterns in the Optic Tectum of Xenoplus laevis Tadpoles
Ryan Devenyi	Bowdoin College	W. Lukowitz	Investigations in the Yoda MAP Kinase Pathway in Arabidopsis
Oleg Dmytrenko	International University Bremen	D. Jackson	Analysis of gat2- Mutants with Reduced Plasmodesmata Size Exclusion Limit (Arabidopsis thaliana)
Nandita Garud	Cornell University	D. Ware	Weeding for phenotypes and motifs in a weed, in the field, and within genomes
Julie Granka	Cornell University	M. Zhang	Characterizing the Binding Specificity of CTCF
Paloma Guzzardo	University of Puerto Rico	A. Krainer	Characterization of a New S6 Kinase 1 Isoform
Lillian Ho	Vassar College	C. Schultz	Novel protein Lucky Luke and Cellular Integrity
William Kruesi	Carleton College	M. Timmermans	The AS1/AS2 and ta-siRNA pathways regulate *MIR166* gene expression in*Arabidopsis*
Carolyn Leeds	Amherst College	P. Paddison	Knock-downs and neurons: Using RNAi to specify cell fate in mouse embryonic stem cells
Wenke Li	Stevens Intitute of Technology	R. Sachidanadam	How old are Introns?
Adam Lowe	Salisbury University	B. Tansey	The role of the *Saccharomyces cerevisiae* gene Sc11 in proteasome mediated transcriptional pathways.
Christopher Quinn	Cornell University	A. Koulakov	An Improved Neural Spike Clustering Approach
Brian Schmidt	Indiana University, Bloomington	G. Hannon	Developing a Direct Biochemical Method to Identify the Targets of microRNAs
Kathryn Schmidt	Yale University	L. Van Aelst	The Role of the X-Linked Mental Retardation Protein Oligophernin-1 in Glutamate Receptor Signaling
Tal Shamia	Tel Aviv University	R. Martienssen	RNAi & Gene silencing effects on *Arabidopsis* development
Joshua Siegle	Brown University	P. Mitra	Oacillatory Brain Dynamics of Working Memory: A Simultaneous MEG and EEG Study
Lincoln Smith	Wabash College	R. McCombie	Bgl II Fragment Selection in the Human Genome using Different Hybridization-Based Selections
Britni Sternard	Bethel College	Y. Zhong	Construction of RNAi for Neurofibromatosis Type 1
Kipp Weiskopf	Amherst College	B. Stillman	The Role of Orc2 in Mitotic Checkpoint Assembly
Vicky Zhou	University of California, Irvine	L. Stein	Visualization of C. *elegans* Gene Expression Data in Wormbase
2007			
Vikram Agarwal	University of Texas at Austin	L. Stein	Characterizing Coverage and Chromosomal Rearrangement in the Watson Genome
Jack Angiolillo	Amherst College	L. Joshua-Tor	Attempting to Crystallize and Solve the Structure for the ORC 2-3 subcomplex
Christine Cho	Brown University	J. Dubnau	MicroRNAs in memory: Characterization of miR276a expression
Karla Claudio-Campos	University of Puerto Rico, Cayey	G. Hannon	Devil Facial Tumor Disease
Emily Combs	Cornell University	D. Ware	Validation of non-canonical introns in rice and a yeast-one hybrid system in*arabidopsis thaliana*
Lindsay Courtney	Drury University	W. Lukowitz	Exploring Localization and Complementation of the MAPK Pathway
George Cutsall	University of Maryland, Baltimore County	A. Krainer	The role of MNK2 isoforms in SF2/ASF-mediated transformation
Edith Davis	Wellesley College	G. Hannon	Identification of LATS-1 as a Putative Tumor Suppressor Gene
Matt Golub	Stanford University	P. Mitra	The Red-Eye Flight: Memory of a Lifetime
Ryon Graf	Univeristy of California, Irvine	W. Tansey	How To Screen For Genes That Stabilize The Proto-Oncogene Myc
Alexander Korman	University of Texas, Austin	Y. Zhong	Pi3-kinase Akt Pathway in Alzheimers Flies
Rebecca Krock	University of Washington, St. Louis	D. Spector	Gene localization with respect to transcriptional status
Cherline Lee	Tuskegee University	B. Stillman	A screen for genes that suppress the pol30-8 silencing defect
Andrew Pao	John Hopkins University	D. McCombie	5' Ends of Rice Genome Transcripts
Cindy Puente	Hunter College	A. Mills	Determining Whether Loss of Heterozygozity of CHD5 is a Prerequisite for Tumorigenesis
Simon Quay	Whitman College	T. Zador	The Role of Long Range Callosal Projections in the Auditory Cortex
Erin Romberg	Oberlin College	Z. Mainen	Uncertainty, Decision Making, and Orbitofrontal Cortex
Matthew Russell	University of California, San Diego	S. Muthuswamy	Cell Polarity and the Initiation and Progression of Breast Carcinoma
Rachel Sachs	Princeton University	A. Koulakov	Application of the Watershed algorithm to spike sorting: error analysis and improvement
Adrianna San Roman	Williams College	D. Jackson	Stop-and-go traffic: Regulating the gates of plasmodesmata

URP name	University	Advisor	Research Project
Sarah Sansom	Ohio State University	M. Timmermans	Understanding Leaf Polarity Pathways
Christine Schenck	Marist College	R. Lucito	An Investigation of Histone Modifications using ChIP-on-chip
Kathryn Schmidt	Yale University	L. Van Aelst	The Role of the X-Linked Mental Retardation Protein Oligophrenin-1 in Glutamate Receptor Signaling
Josh Silverman	Duke University	M. Zhang	Novel miRNAs: Just a few clicks away
Alison Spencer	University of Rochester	V. Mittal	Identification and Preliminary Characterization of the Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) Expressing Cell in Murine Bone Marrow
Sarah Timm	Dickinson College	R. Sordella	Non-Small Cell Lung Cancer: Animal Models and Cancer Stem Cells
Paul Wolski	Cornell University	H. Furukawa	Structural Analysis of the NMDA Receptor NR2D Subunit Ligand Binding Core
John Xue	Cambridge University	R. Martienssen	The regulatory roles of *ASYMMETRIC LEAVES1* and putative RNA-dependent RNA polymerases in Arabidopsis
2008			
Alison Baker	Dartmouth College	T. Zador	A Role for Rat Auditory Cortex in Attention in Time to Auditory Stimuli
Walter Barry	Tufts University	B. Stillman	Analysis of Yeast Replication Origins via Two Dimensional Gel Electrophoresis
Colleen Carlston	Harvard University	J. Dubnau	Pavlovian conditioning of the immune system
Yesenia Correa	Oregon State University	S. Powers	
Eric Domb	Princeton University	M. Zhang	*In silico* detection of cis-regulatory modules
Jonathan Geisinger	Case Western Reserve University	W. Tansey	Ubiquitylation and stability of an ubiquitin ligase RPC
Richie Gerard	University of St. Andrews	D. Spector	In Vivo Studies of the H3K27 Demethylase JmjD3
Anna Gilman	Barnard College, Columbia University	S. Lowe	Dissecting tumor suppressor mechanisms using conditional RNA interference
Xun Hou	MIT	D. McCombie	Identifying SNP Variation of Rapidly Evolving Genes
Chris Hsiung	University of California, Berkeley	G. Hannon	Fishing for small RNAs in Argonaute complexes
Erin Jiminez	University of California, Los Angeles	D. Jackson	Further defining the location of the *Abphyl2* gene by positional cloning and understanding the mechanisms controlling phyllotaxy in maize with Abphyl2 mutants
Richard Jin	Cornell University	R. Martienssen	Replication Initiation Points in S. pombe
Daniel Kim	Amherst College	A. Kepecs	Using optogenetics to study network mechanisms of theta oscillations in the hippocampus
Tzitziki Lemus Vergara	National Autonomous University of Mexico	D. Ware	Phylogenetics of the maize tetraploid Genome
Ryan Ly	John Hopkins University	P. Mitra	Learning and Memory in the *Drosophila* Flight Simulator
Olga Minkina	Washington University, St. Louis	M. Timmermans	The role of AS1/AS2 and *TAS3* in determining abaxial-adaxial leaf polarity
Forest Ray	Hunter College	A. Mills	Tumor-Derived Mutations in CHD5
Susan Shen	California Institute of Technology	J. Huang	GABA(A) receptor subcellular localization, dynamics, and function
Zandra Walton	Amherst College	S. Muthuswamy	Scribble Expression in Mammary Epithelial Cells with Low *let7c* miRNA
2009			
Christopher Bennett	McGill University	A. Krainer	Presence of Intronic Splicing Silencers Downstream of 5' Splice Sites
Philippa Borrill	University of Cambridge	D. Jackson	Cell-to-cell trafficking of transcription factor KNOTTED1/SHOOTMERISTEMLESS: Why and How?
Marcella Carmona	University of Pennsylvania	M. Timmermans	The Contribution of Polarity Determinants to Organ Development
Phillip Coffman	University of New Mexico	P. Mitra	Completing the Circuit: A Practical Technique to Trace Long Range Projections in the Brain
Danielle Feldman	Hunter College	J. Dubnau	Expression and Localization of Lightoid (Beck-1) in Drosophila melanogaster Central Nervous System
Emma Fink	Amherst College	D. Spector	Tracking the sub-cellular localization of Malat1, a long ncRNA, in live cells
Daniel Goltz	Whitman College	D. McCombie	Targeted resequencing of the synaptome genes using microarray exon capture
Debbie Goodman	Columbia University	G. Hannon	MicroRNAs regulating gene expression in muscular differentiation
Mark Grabois	Columbia University	A. Kepecs	Roles of Cholinergic Basal Forebrain Projections in Attention
Lisa Lam	University of California, Berkeley	R. Martienssen	Re-establishment of silencing events in Schizosaccharomyces pombe
Aviva Mail	Cornell University	M. Zhang	Detection of Genomic Structural Variation from High Throughput Sequence Data
Michael Mitchell	University of Arizona	B. Stillman	Elucidating the role of DDX5 in cell proliferation and its regulation of essential genes
Alan Rodriguez Penney	University of Puerto Rico, Rio Padres	B. Li	Effect of ketamine on striatum and nucleus accumbens neuronal activity
Julia Rogers	Yale University	L. Joshua-Tor	Transducer and Repressor Complex in the Yeast GAL Induction System
Natalie Straight	Cornell University	J. Huang	Characterizing Cell Adhesion Molecules in GABAergic Synapses: Neurexin and Neuroligin
Tim Wang	University of California, Berkeley	S. Powers	An Investigation of the Liver Cancer Epigenome
Katie Washington	Notre Dame University	R. Sordella	Molecular Mechanism of EGFR Addiction in H4006 Non-Small Cell Lung Carcinoma
2010			
Robert Aboukhalil	McGill University	M. Atwal	Colocalization of Tumor Suppressor Genes
Emily Bottle	University of Cambridge	T. Zador	Screening the brain areas involved in sensori-motor association
Alexandra Bryson	Texas A & M University	B. Stillman	Exogenous Expression of DDX5 RNA Helicase
Diana Cal	Columbia College	Y. Zhong	Combining two gene targeting systems to investigate crosstalk between the mushroom body and central complex in Drosophila
Joseph Cammarata	Hunter College	Z. Lippman	Searching for a Marker of Meristem Reiteration in Solanum lycopersicum
Jonathan Coravos	Bowdoin College	J. Dubnau	Is dopamine receptor expression in glia required for short-term memory in fruit flies?
Helen Cha	Williams College	M. Timmermans	The Effect of a small RNA Gradient on Sharpening the Adaxial-Abaxial Boundary in Arabidopsis thaliana
Tiffany Coupet	John Hopkins University	S. Powers	Exploring Synergistic Interactions with RNAi in Combination with a PI3K Inhibitor
Martin Fan	Washington University, St. Louis	A. Krainer	Characterizing the Tumorigenic Potential of Several Splicing Factors
Nisha Hariharan	University of California, Berkeley	D. Jackson	Cell-to-cell trafficking via plasmodesmata in Arabidopsis thaliana
Ruilong Hu	Washington University, St. Louis	Steve Shea	The Mechanism of Neural Selectivity for Pup Isolation Calls in Mouse
Edward Larkin	University of Notre Dame	J. Huang	The birth and development of cortical chandelier cells
Diana LaScala-Gruenewald	MIT	M. Zhang	An Interactive Genomic Map between Budding Yeast Species for the Study of DNA Replication
Ashley Maceli	Suffolk University	G. Hannon	Mammalian genomic simplification methods for studying DNA methylation
Connie Martin	University of Californa, Riverside	G. Hannon	Transposon Insertion Profiling
Meg McCue	Dartmouth College	P. Mitra	The Brain Architecture Project: Quantitative Image Analysis
Matthias Minderer	University of Cambridge	L. Trotman	The nuclear import mechanism of PTEN
Luis Montano	National Autonomous University of Mexico	D. McCombie	Solution-based exome capture: is it useful to detect human variation?

URP name	University	Advisor	Research Project
Claudio Morales-Perez	University of Puerto Rico	H. Furukawa	Understanding the molecular mechanism of antagonism in NMDA receptor
Angelina Regua	Molloy College	L. Joshua-Tor	Organization of ClrC (Clr4-Rik1-Cul4) complex
Hanna Retallack	Harvard University	A. Kepecs	Acetylcholine and the basal forebrain in a sustained attention task
Sarah Shareef	Harvard University	C. Vakoc	Condensin Localization Along Mitotic Chromatin
Ayse Trolander	Carleton College	A. Mills	p63 point mutation causing EEC syndrome alters gene expression in vitro
Anil Wadhwani	Northwestern University	F. Albeanu	Neuromodulation of olfactory sensory input - a photon counting approach
Unikora Yang	Brown University	B. Li	Establishing a Novel Attentional Behavior Test for Mouse Models of Schizophrenia
2011			
Paul Baranay	University of Notre Dame	M. Schatz	Metassembler: A secret weapon for winning Assemblathon 2
Tumas Beinortas	Cambridge University	L. Trotman	Characterization of signature gene expression in *Pten* loss associated senescence PICS
Lital Chartarifsky	Hebrew University of Jerusalem	A. Krainer	The Alternative Splicing Factor SRSF6 – A Proto-Oncogene?
Sai Chen	Peking University	G. Hannon	Pre-experiments for optimized sensor assay
Zachary Collins	George Washington University	P. Mitra	Alterations in GABAergic Neuroanatomy in Autism Spectrum Disorder Mouse Models
Thomas Dowling	Georgetown University	G. Hannon	Improving the Signal-to-Noise Ratio of HITS-CLIP
Katharine Dusenbury	Williams College	Pappin	In Vitro Translation and Mutational Modification of Grifola frondosa Metalloendopeptidase
Claire Edgcumbe	University of British Columbia, Canada	B. Li	ErbB4's effect on the morphology of somatostatin cell in the thalamic reticular nucleus
Thomas Erskine	Florida State University	A. Koulakov	Modeling the Human Brain: A Mathematical Approach
Gregory Fitzgerald	Queens College	P. Osten	Anterograde Tracing of the Infralimbic Cortex in Ng3 R451C and Wild-Type Mice
Ann-Desdemonia Fowajuh	University of Maryland, Eastern Shore	G. Enikolopov	The Molecular Mechanism of NO and its Role in Cilia Function
Hannah Gendelman	Amherst College	G. Turner	Light as a Remote Controller of the Proboscis Extension Response in Drosophila
Victoria Hanna	University of California, Irvine	M. Timmermans	MicroRNA mobility
Brittany Haugen	Florida Institute of Technology	A. Mills	Investigating p63 isoforms in mouse models mimicking EEC syndrome
Valentina Ignatova	St. Petersburg University	A. Krasnitz	Knowledge-based derivation of markers and subtypes in cancer
Allison Kolbe	Ohio Wesleyan University	D. Jackson	Determination of phyllotaxy in maize by redox regulation of transcription factors
Andrew Lawson	Cambridge University	L. Joshua-Tor	The role of PIWI proteins in planarian regeneration and The structure and function of human mitochondrial CCA-adding enzyme
Mitchell Leibowitz	University of Virginia	R. McCombie	Third-generation sequencing as a high-throughput diagnostic tool
Chengyu Liu	University of Wisconsin Madison	M. Atwal	Cancer biomarkers investigation in human array CGH data in learning and memory through reward learning in Drosophila Melanogaster
Monica Manglani	Lafayette College	S. Shea	Role of Neuronal Inhibition in Vocal Communication
Kelly Mulfaul	Trinity College, Dublin	B. Stillman	Role of CMG helicase in nucleosome disassembly
Benjamin Perrella	Hunter College	Y. Zhong	The role of the NF1 gene
Kristian Saied	University of Puerto Rico	J. Dubnau	Ago2 protein as the protector against R2 retrotransposons in *Drosophila* brain
Sarah Shareef	Harvard University	C. Vakoc	SMARCA4: A potential therapeutic target for acute myeloid leukemia
Burak Tepe	Bogazici University, Turkey	A. Kepecs	The Role Of Cholinergic Neurons In Regulating Attention
Anne Turberfield	Cambridge University	C. Hammell	Systematic RNAi screen to identify developmental regulators of microRNA activity
Jeanette Wat	Rice University	S. Powers	Oncogene Dependency in HCC
Kevin Wu	University of California, San Diego	D. Ware	*De Novo* Transcriptome Assembly and Analysis of RNA-seq Data from Maize and Sorghum in the Cloud
2012			
Francesca Aloisio	University of Texas at Austin	G. Hannon	Using RNA-FISH to characterize the localization of novel lincRNAs in the mouse hematopoietic system
Sarah Anderson	University of North Carolina-Chapel Hill	G. Hannon	Characterizing the role of pachytene piRNAs in mice
Marta Andrés Terré	UPenn, Universitat de Barcelona	M. Timmermans	Defining the developmental profile of miRNA mobility
Dhruba Banerjee	University of California, Berkeley	F. Albeanu	Top-Down Control of Invariant Odor Perception
Alexandra Batchelor	University of Cambridge, UK	A. Kepecs	How does cocaine affect optimal decision making?
Eleanor Batty	Brown University	A. Churchland	Encoding of Head Movement in Posterior Parietal Cortex
Eric Biggers	Macalester College	M. Schatz	Assembling the Pineapple Genome
Jeetayu Biwas	Brandeis University	D. Pappin	Human Thymosin □-4: Searching for the mechanism behind the mystery
Michael Bocek	University of Washington	M. Egeblad	Extending the Brainbow system for live tumor imaging studies
Rachel Charney	McMaster University	P. Osten	The Neurobiological Effects of Fever on Wild Type Mice and the 16p11.2 Autistic Mouse Model
Zachary Collins	George Washington University	P. Mitra	Mapping GABAergic Neuron Subtypes in Mouse Models of Autism Spectrum Disorders
Karensa Crump	Binghamton University	S. Shea	Granule cell activity in the main olfactory bulb of awake mice
David Ding	University of Oxford	L. Trotman	In vitro studies of IL-6 signaling in prostatic cancers and metastases
Emily Glassberg	Dartmouth College	A. Krasnitz	A novel computational strategy to determine nucleosome positioning in S. cerevisiae
Servan Gruninger	University of Zurich	J. Dubnau	Tracking Transposition events of the gypsy Retrotransposon in Neural Cells of Drosophila melanogaster
Julian Homburger	Cornell University	M. Atwal	Associations Between Rare Variants and Complex Disease
Nathan Huey	Kenyon College	R. McCombie	Identifying mutational burden within the DISC1 interactome in a case-control study for psychiatric disorders
Scott Johnson	University of Maryland, Baltimore County	R. Martienssen	Uncovering the role of the centromere in the Arabidopsis male germline development
Marissa LaMoure	University of Texas at Austin	B. Stillman	Elucidating the Orc2 – BubR1 Interaction
Ryan Lee	California State University San Bernardi	Y. Zhong	Drosophila Neuropeptide F Neurons...Who are they speaking with?
Rebecca Marton	University of Notre Dame	C. Hammell	Development of a high-throughput RNAi screen to identify modulators of heterochronic miRNA activity
James Morton	Miami University, OH	T. Gingeras	A Computational Analysis of Allele Specific Expression
Helen Mueller	Columbia University	A. Mills	Chd5 Expression in Fetal Stem Cells
Amanda Raimer	Widener University	A. Krainer	Splicing Variability of Spinal Muscular Atrophy
Ian Stephens	Trinity College, Dublin, Ireland	J. Huang	Genetic Targeting of Cortical Pyramidal Neuron Subtypes Using Mouse Engineering
Edward Twomey	Seton Hall University	L. Joshua-Tor	Characterization of Gtsf1 involvement in the piRNA pathway
2013			
Lauren Choate	Truman State University	M.Timmermans	Mapping and Characterization of a Leaf Polarity Mutant in Maize: rld-5409
Amy Danson	University of Cambridge	D. Tuveson	Optimizing Growth Conditions of Normal and Diseases Pancreatic Organoids to Study and Identify Pancreatic Cancer Biomarkers
Abhishek Dev	Bard College	A. Kepecs	Effect of Morphine on Decision Making
Maria Eguiluz	Hope College	G. Hannon	Characterization of Nuclear Protein CG13741 in the Germline piRNA Pathway
Michael Fishman	Swarthmore College	P. Osten	The Role of the Medial Amygdala and Ventromedial Hypothalamus Circuit in Mouse Social Behavior
Emily Flynn	Smith College	T. Gingeras	Examining RNA Annotation and Quantification by RAMPAGEL Comparison with RNA-seq and Pol II

URP name	University	Advisor	Research Project
Heather Fuller	University College London	J. Dubnau	Gypsy virus and Neurodegenerative Disorders
Gregory Fuller	Johns Hopkins University	J. Huang	Chandelier Cells and Apoptosis
Michael Jacobs	Oberlin College	L. Joshua-Tor	CG3893 and the piRNA Pathway
Victoria Jones	North Carolina Central University	A. Mills	The Role of Plant Homeodomains (PHDs) of Chromodomain Helicase DNA Binding Protein 5 in Neural Stem Cells
David Kleinman	University of Toronto	L. Trotman	STAT3 inhibition and Prostate Cancer
Ricki Korff	Cornell University	M. Atwal	Germline Genes and Cancer
Prashant Kota	Rensselaer Polytechnic Institute	G. Lyon	Investigation Protein-Protein Interactions in the N-Terminal Acetyltransferase Complex
Therese LaRue	Skidmore College	D. Jackson	Identifying direct targets of FEA4, a master regulator of meristem size in maize
Yitong Li	Cornell University	H. Furukawa	New Approach Aided The Study of Human SPPL2b in Oligomerization and Protease Activity
Abigail Lin	Duke University	R. McCombie	Classifying epistasis in the *DISC1* interactome
Michael MacGillivray	University of Notre Dame	A. Krasnitz	Mathematical Inference of Tumor Phylogeny
Pascal Maguin	Hunter College, SUNY	M. Edgeblad	Exploration of LOXL2 Expression in Pancreatic Cancer
Uju Momah	Amherst College	B. Stillman	Nucleosome Disassembly Ahead of the DNA Replicattion Fork-*in vivo* studies
Marjorie Morales	SUNY Stony Brook	L. Joshua-Tor	Argonautes and GW182 proteins in microRNA-mediated gene silencing
Holly Rees	University of Cambridge	A. Krainer	Investigating the effect of SRSF1 on Nonsense-mediated mRNA Decay (NMD)
Benjamin Schuman	State University of New York at Geneseo	S. Shea	Locus Coeruleus Activity in Response to Social Stimuli
Daniel Starer-Stor	Oberlin College	T. Zador	Generation of Random Barcodes for *in vivo* Cell Identification
Alexis Tchaconas	Columbia University	M. Wigler	Looking Beyond the Nucleus: Mitochondrial DNA Transmission in Autism Spectrum Disorder
Akash Umakantha	Vanderbilt University	P. Mitra	Addition of High Resolution Nissl Histologyy to Waxholm Space
Gregory Vurture	New York University	M. Schatz	Mathematics of Genome Architecture
Alissa Williams	Wofford College	G. Hannon	Viral Barcode Tracking on Clonal Tumor Formation
2014			
Henry Ashworth	Eckerd College	M. Egeblad	The Mystery of Lysyl Oxidase Pancreatic Cancer
Patricia Aubel	San Jose State University	D. McCombie	Variant Detection with PacBio SMRT Sequencing System
Syndi Barish	The College of New Jersey	G. Lyon	Creation and Characterization of an Isogenic Knockout in Naa50, a Catalytic Component of N-terminal Acetyltransferase (NAT) A and E in S. cerevisiae
Nikaela Bryan	University of Maryland, Baltimore County	A. Churchland	Optogenetic Interrogation of Mouse Posterior Parietal Cortex During Perceptual Decision-Making
Cassandra Burdziak	Rutgers University, New Brunswick	T. Gingeras	Characterization of Cell-Specific Fragmenting Patterns Among Exosomal Small RNAs
Daniel Burkhardt	University of Massachusetts, Amherst	D. Ware	Searching for SNPs in Stay-Green Sorghum
John Cannon	Carleton College	A. Churchland	Optogenetic Approaches to Studying Perceptual Decision-Making in the Posterior Parietal Cortex
John Simon Chow	Georgia Institute of Technology	A. Krasnitz	Convex Optimization Algorithms for Population Structure Analysis in Tumors
Michael Dinh	University of Notre Dame	S. Shea	Olfactory Modulation of the Auditory Cortex by Medial Amygdala
Luz Brielle Dojer	Boston University	A. Mills	The Role of Chromodomain Helicase DNA Binding Protein 5 in Neural Stem Cells
Leila Elabbady	Wellesley College	J. Dubnau	The Transposon Storm Hypothesis of Neurodegeneration
Carolina Falcon-Campos	National Polytechnic Institute, Mexico	D. Jackson	Identification of Novel Regulators of Cell-to-Cell Trafficking via Plasmodesmata in Arabidopsis Thaliana
Ariel Gewirtz	Swarthmore College	M. Atwal	Ectopic Germline Gene Expression in Glioblastoma Multiforme and Breast Cancer
Michael Gross	Cornell University	F. Albeanu	Behavioral Effects of Cortico-bulbar Feedback Manipulation in Mice
Melina-Theoni Gyparaki	The University of Edinburgh	M. Timmermans	Functional Analysis of Small RNA – ARGONAUTE Associations and their Roles in Plant Development
Margaret Henderson	Cornell University	P. Mitra	Improving the Precision of Stereotactic Injections for Mapping the Mouse Brain
Samuel Johnson	Brown University	A. Koulakov	PCR Primer Design for Mouse Olfactory Receptors
Danxun Li	University of California, Berkeley	B. Li	Decoding Reward Learning and Valuation Behavior in Cell Populations in the Globus Pallidus
Vicki Mercado	Whittier College	D. Tuveson	Determining the Sensitivity of Pancreatic Cancer Cells to Endoplasmic Reticulum Stress
Beverly Mok	University of Cambridge	C. Vakoc	Role of Mediator Complex in AML Maintenance
Mira Nencheva	Stanford University	A. Kepecs	Optogenetic Manipulation of Orbitofrontal-Ventrostriatal Pathway During Decision Making in Rats
Lucy Rummler	Clemson University	Z. Lippman	Meristem Regulation and the Fin and Fan Mutants in Tomato
Michael Sayegh	Harvard College	B. Stillman	Gene Regulation via RB and ORC1 Interaction
Selin Schamiloglu	Columbia University	J. Huang	Investigating the Role of Chandelier Cells in Fear Circuitry
Rachel Sherman	Harvey Mudd College	M. Schatz	Whole Genome Assembly and Alignment Pipeline For Unique Gene Discovery
Toby Turney	University of Notre Dame	D. Pappin	Improving the Yield and Purity in a Large-Scale Expression and Purification of Velocin-N
Victoria Wang	University of Cambridge	L. Trotman	CRISPR/Cas9 as a Genome-Editing Tool to Investigate Metastatic Prostate Cancer
2015			
Melanie Abegglen	University of Cambridge	R. Martienssen	DNA Methylation and Epigenetic Inheritance in Arabidopsis thaliana
Marley Alford	Bard College	M. Schatz	Threading Through the Breast Cancer Genome with PacBio Sequencing Data
Patrick Aoude	University of Massachusetts Amherst	C. Hammell	Post-Transcriptional Gene Regulation in Caenorhabditis elegans by the K Homology (KH) Domain Protein, LIN-67
Ethan Baker	University of Pittsburgh	D. McCombie	Comparative Analysis of PacBio Libraries Reveals Non-Stochastic Biases in Sites of DNA Nicking
Robert Baraldi	North Carolina State University	J. Gillis	Computational Analysis of Non-coding RNA Co-expression
Kevin Chu	University of California, Berkeley	J. Dubnau	The Transposon Storm Hypothesis of Neurodegeneration
Amanda Cruz	University of California, Davis	A. Mills	Chd5 Epigenetically Regulates the Genes that Underlie Tumor Heterogeneity in Glioma
Charlotte Darby	Carnegie Mellon University	D. Ware	Conservation of Transcriptional Regulation in microRNA-mediated Stress Responses Between Maize and Arabidopsis
Michelle David	Washington State University	A. Churchland	Mapping Visual Areas in the Rat Cortex with Intrinsic Optical Imaging
Christine Gao	College of William and Mary	B. Stillman	Interactions of the Mcm3 C-terminus and its Homologues during Activation of the Eukaryotic Replicative Helicase
Katrina Haught	Stony Brook University	L. Joshua-Tor	Characterization of Human Argonaute Motifs at the N-Terminal of GW182
Jasmine Johnson	Stanford University	G. Lyon	Differential Analysis of RNA seq Data in Ogden Syndrome
Edith Jones	University of Texas-Pan American	C. Vakoc	Exploring the Requirement of TAFs 9/10/12 in Different Genetic Backgrounds of Acute Myeloid Leukemia
Samuel Kovaka	Clark University	T. Gingeras	Characterization of Isoforms in Long-Read RNAseq Datasets
Sally (SiYing) Li	McGill University	J. Huang	Chandelier Cell Selectivity in a Prefrontal Fear Circuit
Gabriel Mel	University of Southern California	P. Mitra	Algorithms for Automatic Anatomical Segmentation in Mouse Brain Nissl Slices
Robert Ontiveros	California State University Fullerton	Z. Lippman	The Tomato Flowering Transition Proteins TMF and BOP Enhance Transcription In Vitro
Luqun Shen	University of Notre Dame	L. Trotman	Mitochondrial DNA and Bone Metastasis in Prostate Cancer
Cole Townsend	University of Oklahoma	M. Egeblad	The Tumor Microenvironment and Phenotypic Plasticity
Kellie Wilson	Washington University in St. Louis	F. Albeanu	Light-Induced Olfactory Detection
2016			
Toby Aicher	Middlebury College	M. Hammell	Investigating drug resistance in melanoma using single-cell RNA-sequencing

URP name	University	Advisor	Research Project
Daniel Barabasi	University of Notre Dame	A. Churchland	Extracting more, and more accurate, data from 2-photon calcium imaging
Julia Bassell	Emory University	A. Krainer	5' splice site selection in GT vs. GC splice sites
Sara Blagburn	Brown University	F. Albeanu	Developing a psychometric curve for odor intensity via a novel two-alternative forced choice protocol in head-fixed mice
Alissa Castleberry	Furman University	T. Gingeras	Processing of Y5 RNA by cancer cell exosomes
Debotri Chatterjee	Cornell University	D. Jackson	Understanding the role of the G-protein ß subunit in plant cell death
Erin DeNardo	Washington University in St. Louis	D. Ware	Interpretation of gene structure changes in Oryza sativa from a single gene to a population
Zhiwei Ding	Grinnell College	J. Huang	Mapping the distribution of a genetically-specified subpopulation of pyramidal neurons projecting to ventromedial striatum in mice
Chris Giuliano	Stony Brook University	M. Egeblad	An anti-metastatic role of lysyl oxidases through matrix metalloprotease inhibition in pancreatic cancer
Benjamin Harris	Colgate University	M. Atwal	Pan cancer analysis of ectopic germline gene expression
Daniel Hawkins	Georgia Institute of Technology	D. McCombie	Long read sequencing and copy number analysis
Isaiah Holloway Jr.	Amherst College	C. Vakoc	Is the CERS4 gene necessary for JAK2 mutated AML cell proliferation?
Ashley Kyalwazi	University of Notre Dame	S. Shea	Parvalbumin network and neuroplasticity in the auditory cortex
Jingyi (Jenny) Ma	University of Alberta	C. dos Santos	Using CRISPR-CAS9 to investigate the epigenetic regulation of mammary stem cells
Ajay Nadig	Northwestern University	A. Kepecs	Signatures of prediction error in cortical VIP interneurons
Timothy Nolan	University of Connecticut	A. Koulakov	Optimization of the short-time fourier transform spectrogram for machine learning objectives
Sevahn Vorperian	Columbia University	B. Stillman	Using CRISPR screening to identify domain dependencies of ORC1 and CDC6 in diploid and cancerous cells
Katelyn Wilensky	University of Michigan	J. Tollkuhn	Using sex differences to study the relationship between genes and behavior
Kaitlin Williams	Carroll University	D. Tuveson	Inhibition of Myc slows the proliferation of KRAS-driven pancreatic cancer organoids
Lorna Wills	University of Cambridge	L. Trotman	The effect of targeting Phlpp2 on cell proliferation and pAkt and Myc signaling pathways
2017			
George Bekheet	Northeastern University	A. Churchland	Multisensory integration during an audiovisual looming stimulus
Benjamin Isaac Cohen	New York University	J. Huang	Exploring the Cellular Basis of the Circuitry and Functional Organization of Mouse Motor Cortex
Sean Connelly	Rutgers University	A. Mills	LSH, EZH2 and the Cancer Stem Cell Population
Josephine Cooke	Queens College - CUNY	F. Albeanu	Discrimination of Olfactory Stimuli in Mice Using a Two-Alternative Forced-Choice Paradigm
Patrick Cunniff	University of Notre Dame	D. Jackson	Intercellular Signaling and Transport in Arabidopsis *thaliana*
Alex Francette	Clarion University of Pennsylvania	C. Dos Santos	Elucidating the Role of MLL-3 in Altering the Parous Epigenetic Landscape
Marianna Frey	Williams College	A. Kepecs	Adenosinergic modulation of optimal foraging decisions
James Gornet	Columbia University	P. Osten	Mapping single neurons from whole-brain images
Alexander Kirschner	SUNY-Environmental Science and Forestry	L. Joshua-Tor	Mechanism of Epigenetic Control by Heterochromatin Protein 1 (HP1) and Origin Recognition Complex (ORC 2/3)
Likhitha Kolla	The College of William and Mary	M. Atwal	Mapping the Immune Landscape for Breast Cancer Subtypes
Natasa Kostic	Cornell University	A. Krasnitz	A Computational Pipeline for Absolute Copy Number Quantification in Single Cancer Cells
Asad Lakhani	University of Cambridge	M. Egeblad	Existence of a Negative Feedback Loop between LOX and Ras Signaling in PDAC
Yutong Liu	University of California, Berkeley	L. Trotman	Validating the Biology and Evolution of Genome Duplication in Prostate Cancer
Fotini Papaleonidopoulos	University of Patras, Greece	A. Krainer	Antisense-mediated inhibition of nonsense-mediated mRNA decay of CFTR gene
Vir Patel	Duke University	C. Hammell	The regulatory protein PQN-59 forms amyloid aggregates dependent on its domain architecture
Charles Pei	Harvard University	Z. Lippman	Modification of meristem and floral development genes in *Physalis peruviana*
Dawn Truong	Harvard University	T. Gingeras	Response of Normal Mouse Cells to Mouse Tumor-derived Extracellular Vesicles
George Wang	Yale University	D. Ware	Resources for identifying the genetic basis of important traits in grapes
Shenandoah Wrobel	Vassar College	S. Shea	Granule Cell Modulation of Odor Representations in Awake Mice
Ray Zhang	Duke University	B. Stillman	Screening Domains of CDC6
2018			
Chimsom Agbim	Vanderbilt University	L. Trotman	Exosomes as Therapeutic Biomarkers in Prostate Cancer
Anisha Babu	The Ohio State University	F. Albeanu	Revolving Odor Delivery Machine
Basheer Becerra	Illinois State University	A. Krasnitz	A bioinformatics pipeline for copy-number feature extraction used for predicting tumor organoid chemo-sensitivity
Gavriela Carver	Cornell University	D. Jackson	Investigating the roles of trehalose-6-phosphate phosphatases in plant development
George Chen	University of British Columbia	B. Li	Monitoring Home-cage Behaviour of 16p11.2+/- Mice to Determine Their Viability as a Model for Autism in Humans
Kevin Chen	University of Maryland, Baltimore County	B. Stillman	Role of ORC4 and ORC2 in ORC origin sequence specificity
Sterling Evans	University of Missouri	R. Martienssen	Understanding easiRNA in Arabidopsis thaliana Pollen
Itai Levin	Cornell University	T. Zador	Mapping Neuronal Projections from the Mouse Periaqueductal Gray
Matheo Morales	Arizona State University	D. Spector	Characterization of long noncoding RNA lnc10 in neurodevelopment
Noelle Ozimek	Queen Mary University of London	P. Osten	C-fos screening for cellular resolution mapping of behaviorally evoked whole brain activation in APPSWE mouse model
Matthew Peacey	University of Cambridge	U. Pedmale	Investigating interaction of CRY2 with MOS1 and FVE in the cryptochrome signaling pathway
Daniel Quintero	Carleton College	A. Churchland	Looming and Receding Stimuli Influence Innate Defensive Behaviors and Neuron Populations
Tess Rinaldo	Stanford University	S. Shea	Analyzing excitatory and inhibitory neuronal response in the basal amygdala during the learning of maternal retrieval behavior
Nicole Sivetz	Monmouth University	A. Krainer	Inhibition of nonsense-mediated mRNA decay of the CFTR gene using splice-switching antisense oligonucleotides
Lauren Stiene	University of California, San Diego	M. Egeblad	Evaluating Intratumoral Clonal Heterogeneity in Breast Cancer by Multicolor Lineage Tracing
Maya Talukdar	Columbia University	J. Gillis	Shaping Our Understanding of Transcriptional Network Re-Wiring Via V-Shaped Relationships
Amelia Tian	Columbia University	J. Tollkuhn	Validation of hormone-regulated differential gene expression in mice and voles
Macy Vollbrecht	University of Minnesota Twin Cities	C. dos Santos	Investigating how the immune system affects the development, proliferation, and transcriptome of mammary epithelial cells
Magdalene Walters	University of Notre Dame	D. McCandlish	Computational detection and characterization of epistatic interactions in influenza A hemagglutinin protein through surveillance sequencing and deep mutational scanning data
Julia Wang	Stanford University	T. Engel	Coordination of cortical state between frontal and visual cortex during spatial attention
2019			
Dominik Aylard	University of California, Davis	C. dos Santos	Aging and NKT cell inactivity decrease breast cancer prevention in advanced-age pregnancies
Alison Bashford	Muhlenberg College	S. Shea	Instinct and Altruism in Pup Retrieving Mice
Nathan Castro Pacheco	Northeastern University	A. Dobin	Single-cell Transcript Isoform Abundance Estimation using an Expectation Maximization Maximum Likelihood (EM-ML) Algorithm
Andrew Claros	City University of New York Queens College	F. Albeanu	Cortical feedback from the olfactory cortex affects firing of mitral cells
Emma Cravo	Union College	A. Churchland	The Role of the Parietal and Frontal Cortex during Sensory-Guided Decision-Making
Faniya Doswell	Norfolk State University	P. Osten	Comparative Mapping of Neuron Populations in Prairie Voles and Mice
Ahmet Doymaz	CUNY Hunter College	L. Joshua-Tor	Structural Study of Exonuclease Dis3l2's RNA-Unwinding Activity

URP name	University	Advisor	Research Project
Jasmin Fleuranvil	University of Chicago	L. Trotman	The role of Axl as a putative regulator of migration and morphology in prostate cancer
Tara Gallagher	University of Notre Dame	T. Gingeras	A study of the role of RNase 1 in the processing of RNA in extracellular vesicles
Nathaniel Garry	Cornell University	A. Krainer	SRSF3-regulated Alternative Splicing and Nonsense-mediated mRNA Decay in Cancer
Owen Hughes	University of Michigan	T. Engel	Towards Inference of Non-stationary Langevin Dynamics from Spike Data
Mackenzie Litz	Smith College	A. Koulakov	Understanding the organization of the nervous system: identifying patterns in neuronal responses to 3D molecular structure in the accessory olfactory system
Sarah Mantell	California Polytechnic State University San Luis Obispo	A. Kepecs	An Investigation of the Inverse Comorbidity Between Neurodegenerative Disorders and Cancers
Blake Nelson	University of the Sciences	D. Spector	Examining the Expression of MALAT1 Long Non-Coding RNA in Human Breast Tumor Organoids
Samantha Rothberg	Amherst College	D. Ware	The Effect of Phosphorus Regulatory Genes on Root System Architecture in Arabidopsis
Charlotte Simpson	Durham University	M. Egeblad	The major signalling molecules involved in classical and non-classical NETosis
Abraham Steinberger	Williams College	D. Jackson	RAMOSA3 and its Potential RNA-binding Protein Interactors
Yin Yuan	University of Cambridge	C. Vakoc	Defining critical residues of the POU homeodomain transcription factor OCT-11 that sustain tuft cell lung cancer growth
2020			
Cancelled			
2021			
Vandana Agarwala	Pennsylvania State University	P. Koo	Representation Learning of Genomic Sequence Motifs via Generative Adversarial Network Model
Jessica Dixon	Florida State University	L. Cheadle	Defining the Interactions Between Microglia and Oligodendrocyte Precursor Cells in Synapse Elimination
Matias Enriquez	Williams College	C. dos Santos	Exploring Parity Induced Effects of EZH2 Inhibited Cells Grown with EPP Through Cut & Run Histone Modification Analysis
Rajee Ganesan	University of North Carolina at Chapel Hill	H. Meyer	Integrative Analysis of single cell expression and chromatin states in Medullary Thymic Epithelial Cells
Emily Guernsey	The University of Chicago	X. Zhuang	Facilitating Inhibitory Learning in the Ventral Striatum (Univ. of Chicago)
Catherine Kim	Haverford College	D. Ware	Plant Comparative Genomics
Caleb Mallery	Hartwick College	J. Preall	Deep profiling of single cell transcriptomes for detection of RNA degradation and miRNA biogenesis
Lucas Melo	Columbia University	A. Krasnitz	Patterns of Copy Number Variation in Acute Myeloid Leukemia
Elliot Meyers	Cornell University	Z. Lippman	Analyzing Shared Intergenic Sequences to Find Putative Regulatory Elements
Shoshana Novik	Harvey Mudd College	T. Engel	Comparing biological data to models of slow wave cortical neural spiking dynamics
Noah Sobel	Johns Hopkins University	J. Gillis	Single Cell Co-methylation Network Construction and Analysis
Jess Stone	University of Sheffield	U. Pedmale	An exploratory analysis of reduced root growth in response to shade in *Solanum lycopersicum*
2022			
Mia Lin Amato	Florida Atlantic University	L. Cheadle	Single-nucleus RNA-sequencing of the visual cortex in the context of synaptic refinement
Scarlet Au	Columbia University	D. Ware	Environmental Genome Wide Association Study in Sorghum
William Borges	Brown University	L. Trotman	Oxidative Therapy in Prostate Cancer
Chris Cizmeciyan	Cornell University	A. Krainer	Inhibiting Liver Cancer Growth via Controlled Pyruvate Kinase Splice-Switching
Jean Gonzalez	Vassar College	J. Tollkuhn	Steroidogenesis in Mammalian Brains
Gina Jones	University of Washington Tacoma	C. dos santos	Defining the Mammary Epithelial Changes Induced by UTI in WT and BRCA1-KO Mouse Models
Laine Marrah	University of Virginia	A. Krasnitz	Inferring Genetic Ancestry from Cancer-Derived ATAC-Seq Data
Nicole Melendez	University of Puerto Rico of Mayaguez	U. Pedmale	The role of ECT2 in blue light signaling in Arabidopsis thaliana plant
Macie Moore	University of Kansas	L. Cheadle	Determination of Tissue Fixation and Designing a Probe for Fluorescence In Situ Hybridization
Sofia Pogliano	Wesleyan University	D. Jackson	The specifics of SHOOT MERISTEMLESS trafficking
Ethan Register	Brown University	S. Beyaz	Regulation of Epithelial MHC-II expression by YAP signaling
Nicolas Rios	Johns Hopkins University	F. Albeanu	Describing the Role of Cortico-Bulbar Feedback in Behavioral Flexibility
Rosa Sanchez	University of California, Santa Cruz	L. Joshua-Tor	Understanding the Binding Preferences of CSR-1a.
Will Slatton	Rice University	T. Engel	Learning Flexible 2D Neural Dynamics from Spikes
Matthew Venezia	Stony Brook University	S. Navlakha	Elucidating the Developmental Process of Voronoi Patterning in Leaves of Pilea peperomioides
Abigail Williams	University of Cambridge	A. Banerjee	Evolution of vocal communication in singing mice
Marta Zaccaria	University College London	T. Janowitz	Investigating ketogenic diet-induced changes in the stress response to cancer cachexia
Phillip Zhou	Amherst College	P. Koo	Seeing through Akita's eyes using interpretability methods
2023			
John Apollo	Farmingdale State College (SUNY)	A. Krainer	Mechanistic Study of pre-mRNA Alternative Splicing in PDAC
Luke Bemish	St. Olaf College	A. Banerjee	Quantitative Modeling of Vocal Behavior in the Singing Mouse
Isabelle Brown-Lyden	Oberlin College	S. Shea	The Role of Smell in Auditory Perception in Mice Based on Maternal Experience
Inle Bush	Cornell University	S. Navlakha	Modeling Arabidopsis Root Morphogenesis in a Heterogenous Nitrogen Environment
Emily Davis	High Point University	H. Hou	Recording Facial Expressions in Mice Pups
Leah Fitzgerald	Purchase College	U. Pedmale	Characterization of ISWI-CRAF Chromatin Remodelers in regulation of CRY2
Shane Holmes	California State University, Stanislaus	J. Kinney	Predicting Transcription Rates in E. coli using Artificial Neural Networks
Harper Lowrey	Yale University	R. Martienssen	The role of AGO2/3 proteins in RNA-directed stress responses
Tianhao Luo	University of Pennsylvania	P. Koo	Interpreting Single-Cell Chromatin Accessibility with scBasset: Enhancing Performance and Unraveling Regulatory Mechanisms
Pablo Mantilla	Texas A&M	C. dos Santos	Investigation of the Impact of Aging on Mammary Gland Response to Pregnancy
Abigail O'Meara	Smith College	D. Ware	FAIRifing Gene Expression to Support Interoperability for Analyses and Visualization Tools
Alister Orozco	Reed College	G. Pouchelon	Transient Somatostatin Interneuron Output in the Development of Fragile X Syndrome
Meredith Ortiz Rivera	University of Puerto Rico at Arecibo	C. Vakoc	ETV6 dependency in Ewing's sarcoma
John ReyMartin	Cornell University	L. Trotman	Live Cell Imaging of a novel, oxidant dependent cell death pathway
Ana Rock	University of Cambridge	C. Amor	Understanding the Interactions Between Nerves and Senescent Cells
Jean Rodriguez-Rivera	University of Puerto Rico at Cayey	S. Beyaz	Effects of Fatty Acid Metabolism on Anti-tumor Immunity
Daisy Rubio	St. John's University	A. Schorn	Elucidating primer binding site determinants for expression and silencing of the murine retrotransposon MusD using a massively parallel reporter assay
Jadyn Scott	Rhodes College	B. Cowley	Modeling olfaction to behavior with decision trees
Zhiyu Song	Kenyon College	L. Zhang	Targeted CRISPR-Cas9 Knockout of WT1 and DIPK1B: Identify and Validate Novel Drug Targets in Acute Myeloid Leukemia (AML)
Tess Stanley	Lafayette College	L. Cheadle	Cytokine Receptor Fn14 Upregulation in Epilepsy
2024			
Quinn Battagliese	Bowdoin College	B. Cowley	Predicting Behavioral Responses to Odor from Neural Activity in Mice
Claire Dao	Occidental College	G. Pouchelon	Examining how postnatal activity dynamics shape brain maturation using functional ultrasound imaging (fUSI)
Neysa Dechachutinan	University of Alabama at Birmingham	J. Tollkuhn	Development of Sex Dimorphism within the Bed Nucleus of the Stria Terminalis

URP name	University	Advisor	Research Project
Emily Foster	Cumberland University	L. Cheadle	Towards Identifying Activity Dependent Phagocytic Cues in the Brain
Maggie Gravano	Marist College	A. Schorn	The role of AGO and PIWI proteins in 3'tRF mediated transposon silencing
Anahje Hector	Stony Brook University	C. dos Santos	The Influence of Urinary Tract Infection on Mammary Tissue Physiology
Karin Hellevik	University of Washington	S. Shea	Tracking of Maternal Care in Mice
Amalia Jardiniano	Stony Brook University	B. Stillman	Tracking Orc1 in Yarrowia lipolytica
Dylan Kemmerer	Gettysburg College	J. Kinney	Quantifying capturable mRNA splicing information in splicing assays and genomic AI models
Emmie Keys	University of Georgia	B. Stillman	Origin Recognition Complex Interactions with CTCF
Alexandra Kiedrowski	Niagara University	H. Meyer	Spatial deconvolution of thymocyte development from nuclear morphology
Jason Long	Stony Brook University	D. Ware	Genetic Variation in Sorghum Landraces due to Local Climate
Faye Lynch Williams	University of Cambridge	S. Beyaz	Investigating the anti-tumour effects of PPARd gain-of-function (GOF) in myeloid cells
Breana Raehse	Northeastern University	C. Hammell	Investigating Protein-Protein Interactions between the LIN-42 / PERIOD Homolog and Nuclear Hormone Receptor DAF-12 during C. elegans¬ Development
Catherine Rasgaitis	University of Washington	H. Hou	Cross-modal Analysis of Spontaneous Facial Movements and Neural Activity in Mice
Julianna Rose	Cornell University	D. Jackson	The Role of TERMINAL EAR1 (TE1) in the Maize Response to Heat and Drought Stress
Nicholas Schiller	Harvey Mudd College	P. Westcott	Immediate impact of Kras mutation in Apc mutant precancer of the colon
Deasia Valdemar	Stony Brook University	G. Pouchelon	Manipulating Somatostatin Neurons affect on the Development of Fragile X Syndrome
Miriam Van de Water	The University of Scranton	A. Banerjee	Analyzing Audio Recordings with a Variational Autoencoder
Phuong Vo	Mount Holyoke College	A. Krainer	Elucidating the mechanism of splicing mode selection in an atypical 5' splice site
Jordan Walter	Wesleyan University	F. Albeanu	Olfactory Bulb Neuronal Identification through BARseq Data Analysis