

| URP name         | University                            | Advisor        | Research Project   |
|------------------|---------------------------------------|----------------|--|
| <b>1959</b>      |                                       |                |  |
| David Baltimore  | Swarthmore College                    | A. Chovnick    | Physiological genetics of <i>Drosophila</i> and <i>Neurospora</i>                                  |
| 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 Weisbrodt | Brooklyn College                      | G. Streisinger | Genetics of bacteriophage viruses  |
| <b>1960</b>      |                                       |                |  |
| Philip Colbert   | Wesleyan University                   | B.P. Kaufmann  | Effect of deoxyribonuclease in <i>Drosophila</i>   |
| Carol Dressel    | Michigan State University             | A. Chovnick    | Studies of a complex locus in <i>Drosophila</i>  |
| Kay L. Fields    | Radcliffe College                     | P. Margolin    | Variation in transduction frequency in <i>S. typhimurium</i>                                       |
| 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 <i>S. typhimurium</i>                      |
| Marlene Martin   | Rutgers University                    | A. Schalet     | Development of selective procedures for recombination studies in <i>Drosophila</i>                 |
| Frances Messik   | Alfred University                     | B.P. Kaufmann  | Effect of infrared irradiation on recombination in <i>Drosophila</i>                               |
| June Rothman     | Swarthmore College                    | M. Fox         | Cross-feeding between mutant and wild-type cells of <i>E. coli</i>                                 |
| <b>1961</b>      |                                       |                |  |
| Marietta Cassle  | Indiana University                    | B.P. Kaufmann  | Study of chromosomes in human blood cells  |
| Gail Choder      | University of Pittsburgh              | E. Englesberg  | Glucose effect in <i>E. coli</i>   |
| 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 <i>Drosophila</i>   |
| Frances Messik   | Cornell University                    | P. Margolin    | Complementation studies of induced auxotrophs in <i>S. typhimurium</i>                             |
| Kirsten Olsen    | Wells College                         | B.P. Kaufmann  | Studies on DNA in <i>Drosophila</i>  |
| Alan Rein        | Reed College                          | A. Chovnick    | Maternal effects in <i>Drosophila</i>  |
| 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 <i>S. typhimurium</i>   |
| <b>1962</b>      |                                       |                |  |
| 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 <i>B. subtilis</i>                                   |
| Barbara Furman   | Cornell University                    | A. Chovnick    | Fine structure of the rosy cistron in <i>Drosophila</i>  |
| Agnes Harford    | Radcliffe College                     | M. Fox         | Effect of 1-methyl-3-nitro-1 nitroso compounds on the transforming principle of <i>B. subtilis</i> |
| Lawrence Kadish  | Princeton University                  | A.B. Pardee    | Photodynamic inactivation of genetic material  |
| Robert Pollet    | Columbia University                   | H.E. Umbarger  | Hydrolysis of dipeptides by <i>S. typhimurium</i> 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 <i>S. typhimurium</i>                    |
| Charles Wahl     | Columbia University                   | H.E. Umbarger  | Genetic and environmental control of L-serine biosynthesis in <i>S. typhimurium</i>                |
| <b>1963</b>      |                                       |                |  |
| Wayne Diamond    | University of Pennsylvania            | S. Goodgal     | Physical properties of H. influenza bacteriophage  |
| Claire Dryfuss   | Douglas College                       | P. Margolin    | Deletion mutations in <i>S. typhimurium</i>  |
| Alan Finesilver  | University of Rochester               | T. August      | Search for a natural pol adenylate in <i>E. coli</i>   |
| Edward Hackney   | Duke University                       | S.R. Gross     | Fluoro-leucine-resistant mutants of <i>Neurospora crassa</i>                                       |
| Michael Murray   | Bellarmino College                    | R.O. Burns     | Isomerase enzyme in leucine biosynthesis in <i>S. typhimurium</i>                                  |
| 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  |
| <b>1964</b>      |                                       |                |  |
| 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 <i>B. subtilis</i> 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 <i>S. typhimurium</i>                                       |
| 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   |
| <b>1967</b>      |                                       |                |  |
| Douglas Brown    | Bellarmino College                    | D. Denhardt    | Phage $\phi$ 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  |

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|---------------------|---------------------------------------|----------------|--|
| 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  |
| <b>1968</b>         |                                       |                |  |
| 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  |
| <b>1969</b>         |                                       |                |  |
| 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  |
| <b>1970</b>         |                                       |                |  |
| 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                                    |
| <b>1971</b>         |                                       |                |  |
| 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   |
| <b>1972</b>         |                                       |                |  |
| 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                 |
| <b>1973</b>         |                                       |                |  |
| 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. praefluenzae 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 <i>H. aegyptius</i>                                     |
| 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  |
| <b>1974</b>              |                                       |                     |   |
| 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 <i>E. coli</i>   |
| 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 <i>E. coli</i>  |
| 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  |
| <b>1975</b>              |                                       |                     |   |
| 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 <i>E. coli</i>                                  |
| 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   |
| <b>1976</b>              |                                       |                     |   |
| 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 <i>E. coli</i>   |
| Robert Gudor             | UC, Berkeley                          | A.I. Bukhari        | Interaction of genomes of bacteriophages Mu and P1 in <i>E. coli</i>  |
| 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  |
| <b>1977</b>              |                                       |                     |   |
| 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 <i>E. coli</i>   |
| 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 <i>E. coli</i> minicells  |
| Cynthia Sammis           | Wells College                         | L. Chen             | Studies on the synthesis of LETS protein  |
| Forrest Spencer          | Smith College                         | R. Kahmann          | Microinjection into <i>Xenopus</i> oocytes  |
| Eve Wolinsky             | Massachusetts Institute of Technology | E. Cheng            | Degradation of nonsense fragments of <i>E. coli</i>   |
| Gary Yellen              | Harvard University                    | J. Broach           | 2-D separation of DNA restriction fragments   |
| <b>1978</b>              |                                       |                     |   |
| Ezekiel J. Emanuel       | Amherst College                       | J.B. Hicks          | Isolation of mutations in mating-type locus of <i>S. cerevisiae</i>   |
| Debra Sue Erdmann        | University of Wisconsin               | D.Y. Kwok           | 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 <i>E. coli</i> 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   |
| <b>1979</b>              |                                       |                     |   |
| 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 <i>S. cerevisiae</i>   |

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| Ina Sporecke        | Smith College                         | D.Y. Kwoh     | Nitrous acid mutagenesis of recombinant plasmids carrying the Mu gin gene   |
| <b>1980</b>         |                                       |               |   |
| Alexander Baxter    | Haverford College                     | D. Kurtz      | Characterization of the rat alpha 2 $\mu$ globulin  |
| Chris Corliss       | UC, Berkeley                          | R. Roberts    | Dideoxy sequencing of adenovirus 2 DNA using HindIII 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   |
| <b>1981</b>         |                                       |               |   |
| 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 $\beta$ -actin gene  |
| <b>1982</b>         |                                       |               |   |
| 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 Heemskerck     | UC, Berkeley                          | M. So         | DNA rearrangement and pathogenicity in <i>N. gonorrhoeae</i>  |
| 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   |
| <b>1983</b>         |                                       |               |   |
| 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 <i>E. coli</i>   |
| Ramona Morfeld      | Wheaton College                       | J. Hicks      | AntiMar: A disrupter of the negative regulation of the silent mating-type cassettes in <i>S. cerevisiae</i>                                       |
| 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 <i>S. pombe</i>   |
| Thomas Smart        | Cornell University                    | M. Malmberg   | Cloning of the <i>N. tabacum</i> nitrate reductase gene through Insertional mutagenesis of a modified T-DNA fragment of <i>A. tumefaciens</i>     |
| Laurie Smith        | Princeton University                  | A.I. Bukhari  | Tn5 mutagenesis of the gin and mom genes of Mu  |
| <b>1984</b>         |                                       |               |   |
| 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 <i>R. capsulata</i>  |
| Susan Euling        | Columbia University                   | D. Kurtz      | Determination of tissue-specific transcription of alpha 2 $\mu$ globulin  |
| William Howell      | University of Wisconsin               | P. Scolnik    | Characterization of DNA ends of the gene transfer agent <i>R. capsulata</i>   |
| 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   |
| <b>1985</b>         |                                       |               |   |
| 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 <i>R. capsulata</i> and development of transformation protocols   |
| Gabrielle Costello  | Harvard University                    | R. Franza     | Cell cycle study of the fission yeast <i>S. pombe</i>   |
| Lisa Griffin        | University of Notre Dame              | D. Kurtz      | Isolation of a transcriptional factor in the hormonal control of alpha2 $\mu$ 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   |
| <b>1986</b>         |                                       |                       |  |
| 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  |
| <b>1987</b>         |                                       |                       |  |
| 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 Kaplan         | 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. Frenthewey         | 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  |
| <b>1988</b>         |                                       |                       |  |
| 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 Horichi     | 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. Frenthewey         | 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  |
|--------------------------|--|----------------------|---|
| <b>1989</b>              |  |                      |   |
| 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 <i>S. cerevisiae</i> 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   |
| <b>1990</b>              |  |                      |   |
| 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 <i>S. cerevisiae</i>  |
| Steven Chao              | Harvard University                       | E. Richards          | Cloning of TAS sequences of <i>A. thaliana</i> 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. Frensdewey        | Analysis of snRNAs and snRNPs in fission yeast  |
| Gilbert Henry            | UC, Santa Barbara                        | D. Helfman           | Isolation of the cDNAs encoding a putative <i>S. Pombe</i> 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  |
| Urmaz 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  |
| <b>1991</b>              |  |                      |   |
| 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 <i>S. cerevisiae</i>   |
| Lisa Catapano            | Dartmouth College                        | T. Marr              | Short functional elements in DNA  |
| Clark Chen               | Stanford University                      | B. Stillman          | Cloning the human homologue of <i>S. cerevisiae</i> 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 <i>S. cerevisiae</i> 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 for a new CLN-like gene by screening an <i>S. cerevisiae</i> 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 Slawewicki       | 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-phosphatases (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   |
| <b>1992</b>              |  |                      |   |
| 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 $\beta$ -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   |
|----------------------|-------------------------------|---------------------|--|
| Gilbert Henry        | UC, Santa Barbara             | W. Herr             | insertions into Arabidopsis plants   |
| JoAnn Hong           | Yale University               | D. Bar-Sagi         | Transcriptional activation domains<br>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 <i>S. cerevisiae</i>   |
| Rachna Ram           | UC, Berkeley                  | H. Ma               | Differential hybridization screening for floral organ-specific cDNAs in <i>A. thaliana</i>   |
| Rustam Rea           | Oxford University             | N. Tonks            | Investigation of the phosphorylation of two, cytosolic protein tyrosine phosphatases   |
| 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 <i>S. cerevisiae</i>  |
| Wenyng 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 <i>S. cerevisiae</i> ARS1 through high-resolution footprinting   |
| Michael Walsh        | Tuskegee University           | E. Richards         | Study of variant telomere repeats in <i>A. thaliana</i>  |
| 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  |
| <b>1993</b>          |                               |                     |  |
| 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 <i>A. thaliana</i> 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 <i>Drosophila</i>  |
| 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 <i>Drosophila</i>                             |
| 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 <i>S. cerevisiae</i>                           |
| 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  |
| <b>1994</b>          |                               |                     |  |
| 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 <i>Xenopus</i>   |
| 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 <i>C. elegans</i> 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 <i>S. pombe</i> morphogenic and mating genes from <i>Drosophila</i> 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 <i>cs.</i> , <i>linotte</i> , and <i>nalyot</i> 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   |

| 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           | FN1 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- $\alpha$ /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. Guntery      | 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   |
| <b>1996</b>          |                                       |                 |  |
| 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       | Pennsylvania 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 Litz           | 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 Parvulus     | 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   |
| <b>1997</b>          |                                       |                 |  |
| 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 Parvulus     | 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 $\alpha$ -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   |
| <b>1998</b>                |  |                 |  |
| 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 | tlazolotol: 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                                 |
| <b>1999</b>                |  |                 |  |
| 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 | Universidade 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 C1r6 histone deacetylase.  |
| Satoshi Kawashima          | University of Kobe School of Medicine    | Y. Lazebnik     | Epitope mapping by protein fragmentation.  |
| Maitreya Krishnaswami      | Hobart 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                | Tennessee 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.               |
| <b>2000</b>                |  |                 |  |
| 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. Maniow      | 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 <i>Caenorhabditis elegans</i>                              |
| 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 Kopeck         | 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 <i>Xenopus</i> |
| Abdullah Ozer          | Bilkent University               | Y. Lazebnik    | Construction of Single-Chain Antibodies against Caspase-7, Caspase-9, and APAF-1  |
| Rama Rajagopalan       | Cornell University               | R. McCombie    | Sequencing of a Tomato BAC; Analysis of Promoter Regions of Nodulin-Like Genes in <i>Arabidopsis thaliana</i>                               |
| Michael Ryczko         | Laurentian University            | T. Tully       | Adf-1 Transcription Factor and Synapse Formation in <i>Drosophila melanogaster</i>  |
| David Schlesinger      | Brigham Young University         | L. Van Aelst   | Molecular Characterization of Oligophrenin-1  |
| Despina Siovas         | St. Johns University             | G. Hannon      | Developing a phenotype array using RNA interference in <i>Drosophila S2</i> 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 Vichnevskaja     | University of Bridgeport         | M. Zhang       | Identification of CREB Targets in <i>Drosophila melanogaster</i>  |
| Kevin Vogell           | UC Berkeley                      | G. Enikolopov  | Nitric Oxide Signaling in Early <i>Xenopus</i> 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                           |
| <b>2001</b>            |                                  |                |   |
| 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 <i>Drosophila S2</i> Cells  |
| Kelly Biddle           | Rice University                  | D. Jackson     | Intercellular Trafficking of Transcription Factors in <i>Arabidopsis</i>  |
| 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 <i>Xenopus</i> 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 <i>Schizosaccharomyces pombe</i>  |
| Elizabeth Head         | University of Minnesota          | R. Martienssen | Characterizing Three Putative RNAi Genes in <i>S. Pombe</i>   |
| Michael Hoffman        | University of Texas              | M. Zhang       | AtProbe: <i>Arabidopsis thaliana</i> Promoter Binding Element Database  |
| Lindsay Huffman        | 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 Hematopoietic Stem Cells   |
| Lakshmi Swamy          | University of Georgia            | L. Stein       | The Mining of Miniature Inverted-Repeat Transposable Elements in Rice   |
| Christopher Wilson     | Kalamazoo College                | R. Maniow      | Involvement of spontaneous activity in the phosphorylation of GluR1/4 by PKA  |
| <b>2002</b>            |                                  |                |   |
| 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 <i>Arabidopsis thaliana</i>  |
| 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        | University 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. Maniow      | Neurons ReAsHed: Imaging a Molecular Model of Memory  |
| Rachel Kalmár          | 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       | University 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   |
| <b>2003</b>            |                                     |                |  |
| 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   |
| Ritik 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-Mediated Proteolysis          |
| Keisha John            | University of Maryland              | H. Cline       | Determination of RNP Granule Composition in Dendrites  |
| Daniel Jones           | Pomona 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 Methylation                          |
| 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  |
| Shradha 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  |
| <b>2004</b>            |                                     |                |  |
| 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. Maniow      | How I failed to cure Alzheimer's Disease in Ten Weeks  |
| Amy Leung              | Cornell University                  | Y. Zhong       | Dissecting the pathological effects of Aβ42 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        | Suppression 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                    |
| <b>2005</b>            |                                     |                |  |
| 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 University                        | 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 <i>Oryza sativa</i> /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 Asymmetric 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     |  |
| <b>2006</b>              |  |                 |  |
| 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 Transcriptional Repression   |
| Silvia Caballero         | Hunter College                           | A. Mills        | Gene targeting of a novel tumor suppressor gene <i>chd5</i> 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 <i>Xenopus laevis</i> 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 ( <i>Arabidopsis thaliana</i> )                      |
| 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 <i>MIR166</i> gene expression in <i>Arabidopsis</i>                                 |
| Carolyn Leeds            | Amherst College                          | P. Paddison     | Knock-downs and neurons: Using RNAi to specify cell fate in mouse embryonic stem cells   |
| Wenke Li                 | Stevens Institute of Technology          | R. Sachidanadam | How old are Introns?   |
| Adam Lowe                | Salisbury University                     | B. Tansey       | The role of the <i>Saccharomyces cerevisiae</i> 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 Oligophrenin-1 in Glutamate Receptor Signaling                             |
| Tal Shamia               | Tel Aviv University                      | R. Martienssen  | RNAi & Gene silencing effects on <i>Arabidopsis</i> development  |
| Joshua Siegle            | Brown University                         | P. Mitra        | Oscillatory 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 Starnard          | 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 <i>C. elegans</i> Gene Expression Data in Wormbase  |
| <b>2007</b>              |  |                 |  |
| 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 <i>Arabidopsis thaliana</i>                       |
| 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                | University of California, Irvine         | W. Tansey       | How To Screen For Genes That Stabilize The Proto-Oncogene Myc  |
| Alexander Korman         | University of Texas, Austin              | Y. Zhong        | P13-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 Heterozygosity 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 Schmitt          | 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 <i>ASYMMETRIC LEAVES1</i> and putative RNA-dependent RNA polymerases in Arabidopsis   |
| <b>2008</b>              |  |                |   |
| 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 Carlson          | Harvard University                       | J. Dubnau      | Pavlovian conditioning of the immune system   |
| Yesenia Correa           | Oregon State University                  | S. Powers      |   |
| Eric Domb                | Princeton University                     | M. Zhang       | <i>In silico</i> 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 <i>Abphy12</i> gene by positional cloning and understanding the mechanisms controlling phyllotaxy in maize with <i>Abphy12</i> mutants |
| Richard Jin              | Cornell University                       | R. Martienssen | Replication Initiation Points in <i>S. pombe</i>  |
| 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        | Phylogenomics of the maize tetraploid Genome  |
| Ryan Ly                  | John Hopkins University                  | P. Mitra       | Learning and Memory in the <i>Drosophila</i> 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. Mithuswamy  | Scribble Expression in Mammary Epithelial Cells with Low <i>let7c</i> miRNA   |
| <b>2009</b>              |  |                |   |
| 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 <i>Drosophila melanogaster</i> 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 <i>Schizosaccharomyces pombe</i>  |
| 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 Piedras   | 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 Neuroigin  |
| 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  |
| <b>2010</b>              |  |                |   |
| 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 <i>Drosophila</i>  |
| Joseph Cammarata         | Hunter College                           | Z. Lippman     | Searching for a Marker of Meristem Reiteration in <i>Solanum lycopersicum</i>   |
| Jonathan Coravos         | Bowdoin College                          | J. Dubnau      | Is dopamine receptor expression in glia required for short-term memory in fruit flies?  |
| Hellen Corava            | Williams College                         | M. Timmermans  | The Effect of a small RNA Gradient on Sharpening the Adaxial-Abaxial Boundary in <i>Arabidopsis thaliana</i>  |
| 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 <i>Arabidopsis thaliana</i>   |
| 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 California, 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 CtrC (Ctr4-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 Wadhvani          | 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  |
| <b>2011</b>            |  |                |   |
| 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 <i>Pten</i> 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 Edgcombe        | 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. Koulikov    | 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 <i>Drosophila</i>   |
| 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 phylloxy 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 <i>Drosophila</i> <i>Melanogaster</i> |
| 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 <i>Drosophila</i> 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        | <i>De Novo</i> Transcriptome Assembly and Analysis of RNA-seq Data from Maize and Sorghum in the Cloud  |
| <b>2012</b>            |  |                |   |
| 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 $\alpha$ -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 <i>S. cerevisiae</i>  |
| Servan Gruningier      | University of Zurich                     | J. Dubnau      | Tracking Transposition events of the gypsy Retrotransposon in Neural Cells of <i>Drosophila melanogaster</i>                                    |
| 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 LaMoire        | University of Texas at Austin            | B. Stillman    | Elucidating the Orc2 – BubR1 Interaction  |
| Ryan Lee               | California State University San Bernard  | Y. Zhong       | <i>Drosophila</i> 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 Raimier         | 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  |
| <b>2013</b>            |  |                |   |
| 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   |
| María 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       | Chandeller 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 <i>DISC1</i> 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 Replication Fork- <i>in vivo</i> 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 <i>in vivo</i> 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 Histology 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  |
| <b>2014</b>            |  |                |   |
| 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 <i>S. cerevisiae</i> |
| 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 Rummier           | 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 Chandeller 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  |
| <b>2015</b>            |  |                |   |
| Melanie Aebegglen      | 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 <i>Caenorhabditis elegans</i> 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       | Chandeller 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   |
| <b>2016</b>            |  |                |   |
| 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 $\beta$ subunit in plant cell death   |
| Erin DeNardo             | Washington University in St. Louis         | D. Ware        | Interpretation of gene structure changes in <i>Oryza sativa</i> 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  |
| <b>2017</b>              |  |                |   |
| 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 <i>Arabidopsis thaliana</i>  |
| Alex Francette           | Clarion University of Pennsylvania         | C. Dos Santos  | Elucidating the Role of MLL-3 in Altering the Parasitic 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 <i>Physalis peruviana</i>  |
| 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   |
| <b>2018</b>              |  |                |   |
| 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 <i>Arabidopsis thaliana</i> Pollen   |
| Itai Levin               | Cornell University                         | T. Zador       | Mapping Neuronal Projections from the Mouse Periaqueductal Gray   |
| Mattheo Morales          | Arizona State University                   | D. Spector     | Characterization of long noncoding RNA Inc10 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   |
| <b>2019</b>              |  |                |   |
| 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 Fleurant       | 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                                      |
| <b>2020</b>           |   |                |  |
| Cancelled             |   |                |  |
| <b>2021</b>           |   |                |  |
| 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                                      |
| Rajeev 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 <i>Solanum lycopersicum</i>   |
| <b>2022</b>           |   |                |  |
| 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    | Infering 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 Slatten          | 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 <i>Pilea peperomioides</i>  |
| 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   |
| <b>2023</b>           |   |                |  |
| 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        | FAIRing 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  |