

CSHL Undergraduate Research Program Participants 1959 - 2021

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

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| 1967 | | | |
| Douglas Brown | Bellarmino College | D. Denhardt | Phage ϕ /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 |
| 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 ϕ 1 function |
| Peter Wayne | Harvard University | C.I. Davern | DNA synthesis |
| 1968 | | | |
| Michael Brandt | Williams College | R. Hendrix | Proteins in lambda cIII deletion mutants |
| Maryann Brunstetter | University of California | K. Manly | Isolation of phage lambda cIII deletion mutants |
| Stephen Dennis | Massachusetts Institute of Technology | R. Werner | DNA replication |
| Michael Farber | California Institute of Technology | P. Spahr | Molecular weight determination on R17 RNA fragments |
| Lynn Greenwald | Cornell University | J. Marmur | B. subtilis SP02 prophage |
| Palma Longo | St. Bonaventure University | R.F. Gesteland | In vitro protein synthesis |
| Michael Lovett | Yale University | S. Goodgal | DNA-negative mutants of H. influenza |
| William Meadow | Amherst College | J. Marmur | B. subtilis SP02 |
| Donald Syracuse | Dartmouth College | J.T. August | Isolation of phage QB amber mutants |
| Peter Wayne | Harvard University | J. Cairns | DNA replication |
| 1969 | | | |
| Josephine Bowen | University of Notre Dame | R. Werner | Intergenic suppression of T4 ligase mutations |
| Stephen Dennis | Massachusetts Institute of Technology | R. Werner | Replication of T4 mutants defective in gene 32 |
| Charles Gilbert | Amherst College | R.F. Gesteland | Nucleotide sequence of phage R17 RNA |
| John F. King | Harvard University | J.D. Watson | Isolation of UGA mutants in phage R17 |
| David N. Kuhn | Massachusetts Institute of Technology | J. Cairns | Phosphate precursor pools of DNA |
| Sondra Lazarowitz | Massachusetts Institute of Technology | R. Webster | Mechanism of killing of E. coli K38 infected with amber mutants of phage P1 |
| Michael Link | Columbia University | J. Marmur | Isolation of conditional lethal mutants in phage SP02 |
| Palma Longo | St. Bonaventure University | R.F. Gesteland | In vitro synthesis of phage T4 glucosyl transferase |
| Patricia Stanley | Cornell University | J. Davies | Difference between cytoplasmic and mitochondrial protein synthesis in yeast |
| Joan Stephenson | Duke University | J. Marmur | Prophage site of B. subtilis phage SP02 |
| 1970 | | | |
| Denise Bostrom | Bennington College | R.F. Gesteland | Search for unusual RNA phages |
| Mark E. Furth | Harvard University | D. Zipser | Control of operon separation |
| Charles Gilbert | Amherst College | R. Crouch | Phage lambda DNA attachment in E. coli minicells |
| David Kaback | SUNY, Stony Brook | D. Zipser | Termination of mRNA synthesis |
| Ilan Kirsch | University of California | C. Mulder | Effect of E. coli B restricting enzyme on SV40 and polyoma DNA |
| Jeanne Margolskee | Harvard University | J. Cairns | Membrane attachment of DNA replication fork |
| David Margulies | Columbia University | R. Werner | Effect of gene 32 protein on rate of DNA replication in phage T4 |
| Harvey Morrison | Cornell University | H. Westphal | Number of integrated SV40 genomes in transformed cells |
| Gerald Rubin | Massachusetts Institute of Technology | L. Crawford | Translation of mitochondrial DNA in a coupled system |
| Margaret Tucker | Wellesley College | J. Sambrook | Isolation of RNA polymerase from HeLa-mouse hybrids |
| 1971 | | | |
| Stephen Chung | University of Oregon | D. Zipser | Phage Mu rec. system |
| Mitchel Kanter | Duke University | D. Zipser | Phage Mu deletion map |
| Michael Kaplan | Harvard University | P. Greenaway | Tumor virus proteins |
| Ronald Koenig | Yale University | D. Zipser | Phage Mu deletion map |
| Randi Leavitt | Brooklyn College | D. Zipser | Mu-Lac hybrid proteins |
| Susan Leibenhaut | Massachusetts Institute of Technology | J. Sambrook | E. coli animal cell agglutination |
| Annamarie Rehn | Duke University | R.F. Gesteland | E. coli ribosome binding sites |
| John Ridge | University of Chicago | H. Delius | DNA renaturation with "gene 32" protein |
| Gerald Rubin | Massachusetts Institute of Technology | R.F. Gesteland | Lac operator nucleotide sequence |
| Jerome Zeldis | Brown University | D. Zipser | Orientation of Mu prophage |
| 1972 | | | |
| Janice Blustein | Johns Hopkins University | W. Keller | Separation of subunits of RNA-dependent DNA polymerase from avian myeloblastosis virus |
| David E. Burstein | Columbia University | E. Bade | Transcription of Mu-1 prophage |
| Hugh Cairns | Brown University | R. Pollack | Cell volume alternations in synchronized populations |
| Terrell Gibbs | Massachusetts Institute of Technology | D. Zipser | Computer simulation of nucleic acid |
| Helen Hollingsworth | Brown University | J. Bruenn | Isolation of mRNA degradation deficient mutants of E. coli |
| Ben Kim | Harvard University | P. Greenaway | Purine tract analysis of SV40 DNA |
| Mary M. Martin | Reed College | P. Greenaway | Pyrimidine tract analysis of SV40 DNA |
| T. Kevin Sweeney | Cornell University | H. Delius | Partial denaturation map of T5 DNA |
| Janis Townsend | Princeton University | C. Anderson | Characterization of tryptic peptides of actin |

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|--------------------------|---------------------------------------|---------------------|--|
| Jerome Zeldis | Brown University | R. Pollack | Fluctuation analysis of mutagen-induced reversion of transformed cells |
| 1973 | | | |
| James Breitmeyer | UC, Santa Cruz | R. Roberts | Purification and characterization of a new restriction endonuclease from <i>H. aegyptius</i> |
| Robert Heimer | Columbia University | P. Greenaway | ATP-dependent DNA methylases and endonucleases in chicken embryos |
| Helen Hollingsworth | Brown University | P. Sharp | Mapping of <i>H. praefluenzae</i> 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 <i>E. coli</i> |
| 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 |
| 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 |
| 1974 | | | |
| Margaret Hightower | University of Alabama | R.F. Gesteland | Purification of yeast killer particles |
| Keith Mostov | University of Chicago | R. Roberts | A search for a mutant of the restriction endonuclease EcoRI |
| Harker Rhodes | Harvard University | B.N. Apte | In vivo and in vitro degradation of reinitiation polypeptides |
| Hilary Ronner | Barnard College | A.I. Bukhari | Assay of DNA-unwinding proteins from plasmid containing strains of <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 |
| 1975 | | | |
| John Kent Chin | Yale University | T.R. Broker | Characterization of ultraviolet radiation-sensitive mutants of bacteriophage T4 |
| Paul Epstein | Princeton University | R.F. Gesteland | The relationship between polarity suppression and internal reinitiation polypeptides in <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 |
| 1976 | | | |
| Mark D. Glen | University of Pennsylvania | M. Mathews | Nucleotide sequence of gene for adenovirus-associated RNA |
| Marion Gold | UC, Berkeley | C.G. Miller | In vitro studies of protein degradation in <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 |
| 1977 | | | |
| Vicki Lynn Brawley | UC, Berkeley | N. Harter | Characterization of adenovirus early protein |
| Carol Clewans | Reed College | A.I. Bukhari | Mapping of a new gene controlling the synthesis of an unusual growth factor in <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 |
| 1978 | | | |
| 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. Kwoh | Genetic recombination and complementation between Mu and cloned of Mu DNA |
| Scott Finley | SUNY, Stony Brook | N. Harter | Immunological identification of Ad2 early proteins |
| Judith Krieger | Harvard University | K. Burridge | Use of monoclonal antibodies to study cell surface antigens |
| James Lupski | New York University | A.I. Bukhari | Construction of plasmids containing ends of prophage Mu DNA |
| Kenneth McElwain | Wesleyan University | T.R. Broker | Identification of recombinant plasmids with Tn5 inserted in cloned phage Mu DNA |
| Jeremy Nathans | Massachusetts Institute of Technology | R. Roberts | Modification of Sanger's chain termination DNA sequencing method in Ad2 DNA |
| Steven Robinow | UC, Berkeley | R. Tjian | Enzymatic and DNA binding properties of the SV40 A-gene product |
| Susan Rolseth | University of Connecticut | Y.-S. Cheng | Characterization of <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 |

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|---------------------|---------------------------------------|--------------|---|
| Michael Stern | Stanford University | J.R. Broach | Cloning SUP61, a yeast serine inserting, recessive-lethal, nonsense-suppressor gene |
| 1979 | | | |
| Martha S. Cyert | Harvard University | B.S. Zain | Nucleotide sequence analysis of the REC/INT sites of Ad2+ND1-dp2 viral DNA |
| Samuel Kunes | University of Oregon | G.P. Thomas | Studies on the control of adenovirus gene expression |
| Joachim Li | University of Chicago | A.I. Bukhari | Sequencing of products left after excision of Mu DNA from the lacZ gene: adaptation of Sanger's dideoxy-method and the M13 phage system |
| Leona Ling | UC, Berkeley | Y. Gluzman | Sequence determination of the junctions between Ad2 and SV40 genomes in the Ad2-SV40 (HEY and LEY) hybrids |
| Suzanne Mansour | Radcliffe College | M. Mathews | Selection of adenovirus mRNAs using separated strands of viral DNA fragments |
| Mark Minie | Wesleyan University | K. Burrige | 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> |
| Ina Sporecke | Smith College | D.Y. Kwoh | Nitrous acid mutagenesis of recombinant plasmids carrying the Mu gin gene |
| 1980 | | | |
| Alexander Baxter | Haverford College | D. Kurtz | Characterization of the rat alpha 2μ globulin |
| Chris Corliss | UC, Berkeley | R. Roberts | Dideoxy sequencing of adenovirus 2 DNA using 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. Zipsper | Sequence analysis of deletion and insertion mutations of the cloned HSV-1 thymidine kinase gene |
| Allen Oser | Brown University | A.I. Bukhari | Restriction enzyme mapping of Mu phage DNA and use of various methods to make plasmids (pSC101 and pBR322) containing Mu wild-type repressor gene |
| Barry Rosen | Wesleyan University | T. Broker | Nucleotide sequence evolution in adenovirus: determination of the sequence of gene |
| Eric Schulze | UC, Berkeley | S. Blose | Purification and characterization of the midbody of dividing HeLa cells |
| 1981 | | | |
| Kristen Clarke | University of Pennsylvania | R. Roberts | M13 as a chimeric protein cloning system |
| Lindsey Criswell | University of California | B. Stillman | Characterization of temperature-sensitive mutants of adenovirus 2 |
| Lisa Haas | University of California | J. Hicks | Mapping of cloned pieces of yeast DNA which complement mutations in positive and negative regulatory elements for unexpressed mating-type loci |
| Jonathan Miller | Yale University | J. Stringer | Viral RNA levels in rat cells transformed by an SV40 T antigen mutant |
| Nancy Mills | Harvard University | D. Zipsper | 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 β-actin gene |
| 1982 | | | |
| Tania Ann Baker | University of Wisconsin | A.I. Bukhari | Cloning the Mu A gene |
| David Campanelli | Wesleyan University | T. Broker | Gene expression of human papilloma virus type 1 |
| Brad Cookson | University of Utah | M. Wigler | Construction of a transforming gene under control of a metallothionein promoter |
| Andrew Gray | Princeton University | P. Thomas | Genomic clones of human heat shock genes |
| Jill Heemskerker | 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 |
| 1983 | | | |
| Marvin Appel | Harvard University | F. Daldal | Growth of anaerobes under normal atmospheric conditions in medium reduced by |
| Michael Cahn | Dartmouth College | P. Thomas | Sequence analysis of human stress protein genes |
| Brad Cookson | University of Utah | M. Wigler | Analysis of mutations altering expression of H-ras-1 genes |
| Robert Dudley | Duke University | R. McKay | The generation of antibodies to neural gene products by means of cDNA clones |
| Lillie Hsu | University of Michigan | A.I. Bukhari | Vectors for shotgun cloning of bacterial genes without restriction enzymes |
| Kyu-Ho Lee | Massachusetts Institute of Technology | F. Tamanoi | Use of M13 to express H-ras-1 T24 bladder carcinoma p21 protein in <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 |

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| 1984 | | | |
| Mark Alfenito | Cornell University | S. Dellaporta | Genetic and molecular study of maize controlling elements |
| Catherine Chen | Massachusetts Institute of Technology | B. Stillman | Analysis of the deg phenotype associated with mutations in the gene encoding the adenovirus E1B 19K tumor antigen |
| Shinta Cheng | Yale University | F. Daldal | Molecular genetics of cytochrome C2 of <i>R. capsulata</i> |
| Susan Euling | Columbia University | D. Kurtz | Determination of tissue-specific transcription of alpha 2μ globulin |
| William Howell | University of Wisconsin | P. Scolnik | Characterization of DNA ends of the gene transfer agent <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 |
| 1985 | | | |
| Mark Alfenito | Cornell University | S. Dellaporta | Studies of a controlling element and complex locus in maize |
| Pedram Argani | Princeton University | Y. Gluzman | Expression of SV40 T antigen by E1-deleted adenovirus-5 vectors |
| Todd Brown | Pittsburg State University | D. Youvan | Isolation of the reaction center of <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 alpha2μ globulin |
| Nicholas Hanchak | University of Scranton | D. Hanahan | Transformation efficiency in nucleoside transport mutants of <i>E. coli</i> 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 <i>C. reinhardtii</i> |
| Robert Paul Ray | UC, Berkeley | R. Guggenheimer | SV40 replication in vitro |
| Geraldine Seydoux | University of Maine | D. Beach | Genetic suppressors of the genes <i>ran1</i> and <i>mei3</i> in <i>S. pombe</i> |
| 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 <i>R. capsulata</i> |
| Sheila Wong | Yale University | F. Daldal | Cytochromes and the photosynthetic pathway of <i>R. capsulata</i> |
| 1986 | | | |
| Pedram Argani | Princeton University | Y. Gluzman | Origin-specific binding of SV40 large T antigen |
| Sean Burgess | University of Colorado | W. Herr | Late transcription in SV40 |
| Nina Caplin | Duke University | B. Welch | Purification of the major mammalian glucose-regulated proteins |
| Mark Eisner | Stanford University | S. Powers | Localization and characterization of supC: A suppressor of the heat shock sensitivity phenotype induced by the <i>Ras2val19</i> mutation in yeast |
| Irene Griff | Massachusetts Institute of Technology | F. Daldal | Isolation and identification of stigmatellin-resistant mutations in the <i>pet</i> operon in <i>R. capsulata</i> |
| Martin Horvath | Brown University | B. Stillman | Characterizing the ABF1 binding site of ARS1 in vivo |
| Brad Johnson | Yale University | A. Bhagwat/R. Rober | 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, DA1 |
| Roya Namvar | New York University | D. Youvan | Oligonucleotide-directed site-specific mutagenesis of the light-harvesting I antenna genes of <i>R. capsulata</i> |
| Scott Panzer | Harvard University | D. Hanahan | Expression patterns of papilloma viruses in transgenic mice |
| Henry Stapp | Hampshire College | P. Scolnik | Study of in vitro carotenoid biosynthesis and in vitro assembly of functional |
| Wendy Weiher | University of Pennsylvania | R. Cone | Efficiency of oncogene transfection into E1A-immortalized rat cells |
| 1987 | | | |
| Struan Coleman | Harvard University | D. Marshak | Phosphorylation by casein kinase II |
| Michelle Dziejman | University of Rochester | W. Welch | The mammalian heat shock response |
| Malek Faham | University of Maryland | F. Daldal | Genetic analysis of the structure of the quinol oxidization site of the cytochrome bc1 complex |
| Lisa Gloss | Michigan State University | W. Herr | Transcriptional control in SV40 |
| Joshua Gordon | Washington University | L. Field | Construction of an albumin-ANF fusion gene |
| Diane Harvey | Cornell University | E. White | Expression of the adenovirus E1B gene products |
| Adam Kaplin | Yale University | D. Spector | Preliminary investigations into the functional significance of the Sm antigen distribution pattern in situ |
| Elena Levine | Yale University | M. Quinlan | The effect of adenovirus E1A on the SV40 enhancer in CV-1 cells |
| Rong Li | Yale University | D. Frenthewey | Pre-mRNA splicing in <i>S. pombe</i> |
| 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 <i>cdc13</i> mutation in <i>S. pombe</i> |
| 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 <i>S. pombe</i> |
| 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 |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|---------------------|--|----------------------|---|
| Jonathan Tropp | Harvard University | J. Pflugrath | Purification of yeast Ras2 |
| Johannes Walter | UC, Berkeley | J. Anderson | DNA-protein interactions at the molecular level |
| 1988 | | | |
| Jennifer Brown | Yale University | K. Arndt | Cloning a transcription factor of the yeast HIS4 gene by expression library screening |
| Franco Carlotti | Cambridge University | A. Rice | Human immunodeficiency virus tat protein function |
| Emily Chan | Harvard/Radcliff | R. Roberts | mRNA splicing extracts from mammalian tissues |
| Emad Gharavi | City College of New York | M. Mathews | Cloning of PCNA by screening rat and human genomic libraries in lambda phage and isolation of genomic DNA fragments |
| Lisa Gloss | Michigan State University | R. Franza | Expression of three eukaryotic nuclear proteins |
| Daniel Grief | Stanford University | J. Anderson | Purification of the myc oncoprotein |
| Ulrich Grossniklaus | University of Basel | N. Hernandez | Transactivation of the human U2 small nuclear RNA promoter |
| Beth Hance | Moravian College | E. Moran | Activation of cellular gene expression by the adenovirus E1A gene products |
| Junjiro Horiuchi | Stanford University | B. Stillman | Isolation of putative human chromosomal origins of DNA T. tsurimoto replication |
| Seth Karp | Harvard University | D. Beach | Cell cycle regulation |
| Chris Leptak | Yale University | D. Frendewey | S. pombe mRNA splicing in vitro |
| Brandon Lloyd | Grinnell College | V. Sundaresan | Sequence-specific modification of the transposable mutator element |
| Joanna Long | University of Arkansas | B. Futcher | Cell cycle control in S. cerevisiae |
| Melissa Macias | University of Texas | J. Pflugrath | Purification of p13suc1 |
| Sharon Perez | Wellesley College | M. Gilman | Transcriptional activation of the c-fos gene |
| Mia Schmiedeskamp | University of Michigan | D. Marshak | Determination of S100B levels in chick embryo cerebral cortex at successive stages in development |
| Ann Schroeder | UC, Davis | D. Spector | DHFR mRNA localization in mammalian nuclei |
| Tanya Whitfield | Cambridge University | W. Herr | HIV-1 tat/tar interaction |
| Albert Yan | Princeton University | D. Helfman | Rat tropomyosin gene control |
| 1989 | | | |
| Doug Adler | SUNY, Binghamton | B. Moran | Cloning the retinoblastoma gene in baby rat kidney cells |
| Lisa Bellavance | Drake University | L. Field | Organ dysgenesis in IV/- mice |
| Ron Bose | University of Rhode Island | K. Arndt | Analysis of suppressors of sit4 |
| Ross Breckenridge | Cambridge University | D. Marshak | Purification of HeLa p34 cdc2 using a novel assay |
| Ivan Brockman | Cornell University | B. Futcher | whi4 is a mutant of S. cerevisiae that may actually be Whi1-1 |
| Franco Carlotti | Cambridge University | A. Rice | Properties of mutants within the cysteine-rich region of the HIV tat protein |
| Nancy Fan | Harvard University | A. Stenlund | Synchronization of bovine papilloma virus-transformed mouse cells using centrifugal elutriation |
| Ellen Gadbois | College of St. Catherine | B. Stillman | Purification of a yeast protein equivalent to human RF-C |
| Amy Kistler | University of Pennsylvania | D. Helfman | Generation and purification of beta skeletal muscle tropomyosin and two novel carboxy-terminal beta tropomyosin chimeras |
| Karen Kopecek | Franklin & Marshall College | J. Kuret | The feasibility of using direct expression cloning to determine downstream components of signal transduction pathways |
| James Lister | Pomona College | N. Hernandez | Analysis of the AT-rich region of the U6 snRNA promoter by site-directed mutagenesis |
| Steven Palmer | Wabash College | D. Bar-Sagi | Isolation of the membrane phospholipase A2 gene from rat brain cDNA in lambda gt11 |
| Nives Pecina | University of Zagreb | A. Krainer | Reconstitution of snRNPs |
| Mika Sovak | Reed College | D. Spector | Effects of transcriptional inhibition upon the snRNP network |
| Martin Stoddart | Cambridge University | M. Mathews | Secondary structure determination of virus associated RNAs (VA RNAs) |
| Karen Zito | Indiana University | W. Herr | Expression pattern of Oct-1 and Oct-2 in mice |
| 1990 | | | |
| Benjamin Abella | Washington University | B. Futcher | Telomere structure in aging fibroblasts |
| Luis Alvarez | UC, Los Angeles | V. Sundaresan | Mu-induced gene expression in maize |
| Clare Baker | Cambridge University | B. Stillman | Investigation of a 13-kD single-stranded DNA-binding protein from S. cerevisiae |
| Steven Chao | Harvard University | E. Richards | Cloning of TAS sequences of A. thaliana by complementation in YACs |
| Matthew Cockerill | Cambridge University | N. Hernandez | A sensitive assay for U1/U2 snRNA gene transcription in vitro |
| Arshad Desai | California State University, Los Angeles | J. Kuret | Solution of the 3-D structure of a protein kinase using site-specific mutagenesis to create sites for isomorphous replacement |
| Medeva Ghee | North Carolina State University | D. Frendewey | Analysis of snRNAs and snRNPs in fission yeast |
| Gilbert Henry | UC, Santa Barbara | D. Helfman | Isolation of the cDNAs encoding a putative S. Pombe tropomyosin and a novel actin-like protein |
| Chia-Suei Hung | Beloit College | J. Pflugrath/T. Marr | Purification and crystallization of proliferating cell nuclear antigen |
| David Immanuel | Wesleyan University | K. Arndt | Cloning of SDS1, a gene which suppresses a deletion of SIT4 |
| Michelle Lozeron | University of Wisconsin | T. Peterson | Restriction mapping of the P mosaic allele of maize |
| Monn Monn Myat | Mount Holyoke College | A. Krainer | Purification and characterization of U2 snRNP auxiliary factor |
| Stanford Peng | Stanford University | D. Spector | Eukaryotic RNA levels after heat shock |
| Umas Saarma | Tartu University | A. Stenlund | Generation of an expression vector for the replication protein E1 from bovine papilloma virus |
| Angela Wilson | University of Wisconsin | D. Marshak | Molecular analysis of the expression of neurotrophic factor S100b |
| John Yates | University of Glasgow | D. Bar-Sagi | Sequencing of PLA2 from muscle and liver, using PCR and subcloning techniques |
| Ann Yonetani | University of Pennsylvania | G. Morris | Characterization of an Alu sequence transcribed from the human PCNA promoter |
| Karen Zito | Indiana University | W. Herr | Study of transcriptional activation by Oct-2, a lymphoid octamer binding protein |
| 1991 | | | |
| Joseph Beauchamp | SUNY, Cortland | T. Petersen | Investigation of mosaic pericarp color in maize |
| David Birschbach | University of Wisconsin, Madison | K. Arndt | Identification of suppressor of transcription (SIT) mutants in S. cerevisiae |
| Lisa Catapano | Dartmouth College | T. Marr | Short functional elements in DNA |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|--------------------------|------------------------------------|---------------------|---|
| 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 Slawacki | 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 (PTases) present in two PC12 cells |
| Ekaterini Tsapos | Harvard University | R. Franza | Characterization of NF-kB/p105 and cRel |
| Jin Yang | SUNY, Oneonta | E. Richards | Structure and function of telomere-associated sequences |
| 1992 | | | |
| Kenneth Bilchick | Dartmouth College | J. Anderson | Purification, crystallization, and structure determination of R. Pvu II methylase protein |
| Chad Brecher | Brown University | D. Marshak | Examination of the mechanism of action of S100b and determination of the interaction of S100b and β -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. Mori | 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 insertions into Arabidopsis plants |
| Gilbert Henry | UC, Santa Barbara | W. Herr | Transcriptional activation domains |
| JoAnn Hong | Yale University | D. Bar-Sagi | The effect of GRB2 overexpression in NIH 3T3 fibroblast cells containing moderately high levels of wild type p21 Ras |
| Fraser Imrie | University of Glasgow | T. Tully | Molecular cloning of linotte, a new learning and memory gene in Drosophila |
| Ingrid Kelly | Cambridge University | T. Peterson | Purification of antibodies to the P-gene in maize |
| Laurie Littlepage | University of North Texas | B. Futcher | Suppressing the lethality of WH13 overexpression in <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 |
| 1993 | | | |
| Diane Alonso | Claremont College | X. Cheng | Determining the role of the glutamine residue in the binding and sequence recognition by the Hha1 methyltransferase |
| Nadine Bewry | Tennessee State University | D. Helfman | The role of the polypyrimidine tract binding protein (PTB) in the regulation of alternative splicing in the rat b-tropomyosin gene |
| John Birney | Oxford University | A. Krainer | mRNA splicing in mammalian cells |
| Keith Brennan | Cambridge University | M. Gilman | Activation specificity of SRF and Phox1 |
| Julie Caruthers | 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 Drosophila |
| Frank Lee | Duke University | A. Silva | Study of spatial learning and synaptic plasticity in NF1 mutant mice and a-Ca2+ calmodulin-dependent kinase II (aCaMKII)/NF1 double mutant mice |
| Eric Liao | Stanford University | Y. Zhong | Immunocytochemical mapping of PACAP-like neuropeptide distribution in the third instar larval and adult CNS and PNS of Drosophila |
| Laurie Littlepage | University of Texas at Austin | B. Futcher | Use of the two-hybrid screen to find proteins associated with Cln2, Cln3 and other cell cycle proteins |
| Michele Pierre-Louis | Brown University | W. Herr | Protein-protein interactions between virion protein-16 and the Oct-1 transcription factor as a study in the role of a DNA binding domain in regulating transcription |
| Marko Piirsoo | Tartu University | A. Stenlund | Studies on the functions of M protein in BPV-1 replication |
| Marta Rosario | University of Glasgow | M. Wigler | Detection of specific protein-protein interactions in the mammalian Ras signal |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|----------------------|------------------------------------|----------------|--|
| Carolyn Ruddell | University of Liverpool | D. Beach | transduction pathway using the two-hybrid system |
| Wendy Schaub | Beloit College | J. Kuret | Identification of novel proteins which physically interact with cell cycle regulators, using the two-hybrid screen in <i>S. cerevisiae</i> |
| Patricia Sung | University of Texas, Austin | V. Sundaresan | Determining the functional role of members of the casein kinase I family of proteins |
| Fiona Thistlethwaite | Cambridge University | B. Stillman | The use of inverse polymerase chain reaction for amplifying Arabidopsis genomic sequences flanking transposed Ds elements Subcloning and expression of Mcm2 |
| 1994 | | | |
| Omar Antar | Harvard University | X. Cheng | Towards solving the 3-D structure of p16: crystallization trials |
| Nadine Bewry | Tennessee State University | H. Cline | BDNF in the development of retinal axon arbors in <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 <i>Arabidopsis</i> |
| 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 <i>Arabidopsis</i> 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 |
| 1995 | | | |
| 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 <i>Drosophila</i> learning mutants <i>latheo</i> and <i>linotte</i> |
| Rebecca Blankenburg | California Institute of Technology | Y. Zhong | Ras signal transduction pathway involvement in <i>Drosophila</i> 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, <i>C. elegans</i> |
| 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 <i>S. pombe</i> |
| Rebecca Farkas | Yale University | H. Ma | FON1 and floral developmental genetics |
| Christine Ford | Bellarmino 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. Hoememan | University of Wisconsin | B. Stillman | Construction and utilization of multicopy libraries to screen for suppressors of a conditional mutation in the 58-kD subunit of POL- α /primase |
| Ermitt 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 Pastmak | Wabash College | A. Krainer | Expression of human SR proteins in yeast |
| Loren del Mar Peña | Duke University | W. Herr | Cloning the <i>C. elegans</i> host cell factor gene |
| Elizabeth Pinches | Cambridge University | H. Cline | Synapse distribution on the retinotectal projection of <i>Xenopus</i> |
| Cynthia Snyder | Colorado State University | C. Greider | Human telomerase RNA |
| Hana Sugimoto | Wellesley College | K. Arndt | Sequencing of SAP4 clone and isolation of SAP190 ts mutants |
| Pei Lin Tan | Mount Holyoke College | S. Gunnery | Termination signal of RNA polymerase III (Pol III) transcription |
| Rachel Ventura | Harvard University | X. Cheng | Towards solving the 3-D structure of p16: crystallization trials |
| Kevin Wang | Stanford University | V. Sundaresan | Isolation and characterization of embryo-specific genes in <i>Arabidopsis</i> using insertional trap transposons |
| Audrey Wells | University of New Mexico | R. Martienssen | Characterization of the <i>Arabidopsis</i> genome |
| 1996 | | | |
| Nadeem Ali | Cambridge University | H. Cline | NO and neuronal development |
| Martha Betson | Cambridge University | L. Van Aelst | Isolation of a full-length clone for POR3, a novel rac-binding protein |
| Casey Blegen | University of Wisconsin | K. Arndt | Isolation of high-copy suppressors of the growth defect caused by overexpression of both SIT4 and SAP155 |
| Bilyana Georgieva | Mount Holyoke College | B. Stillman | DNA replication: construction and study of replication factor C (RFC) conditional mutants |
| Jennifer Gervais | Yale University | G. Hannon | A gene-tagging retroviral technique using p53 and its transcription factors |
| Jarret Glasscock | University of Arizona | Y. Zhong | CREB and the signal transduction pathway |
| Michael Goller | Pennsylvania State University | Y. Lazebnik | Characterization of apoptosis-relevant endonuclease activity |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|----------------------|---------------------------------------|-----------------|---|
| 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 <i>S. cerevisiae</i> |
| 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 <i>S. pombe</i> |
| 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, <i>C. elegans</i> |
| Govindan Ramanathan | Rochester Institute of Technology | G. Enikolopov | NO synthase in the development of <i>Drosophila</i> |
| 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 <i>Drosophila</i> |
| 1997 | | | |
| Nizar Batada | Carleton University | P. Nestler | Screening and detection of substrates of apoptotic protease, CPP32 |
| Richard Benton | Cambridge University | R. Martienssen | Use of gene-trap and enhancer-trap systems to determine pattern formation in the vegetative development of <i>Arabidopsis</i> |
| 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 <i>Drosophila</i> |
| 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 <i>Drosophila</i> NF1 and rutabaga adenyl 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 <i>Drosophila</i> 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 <i>Arabidopsis</i> |
| 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, <i>C. elegans</i> |
| Nikos Reppas | Oxford University | B. Stillman | The interaction of DNA polymerase α -primase with the origin recognition complex (ORC) in <i>S. cerevisiae</i> |
| Joel Stern | Columbia University | A. Silva | The N-ras heterozygous mutation rescues the spatial learning deficits caused by the NF1 heterozygous mutation |
| Milos Tanurdzic | University Novi Sad | E. Grotewold | Identification of additional factors interacting with regulators of flavonoid biosynthesis |
| Elizabeth Thomas | Evergreen State College | A. Krainer | Characterization of p54, a putative splicing factor |
| Hung Tran | Columbia University | M. Wigler | Characterization of the binding partners of the tumor suppressor gene PTEN |
| Keren Witkin | Wellesley College | R.-M. Xu | Purification and preliminary crystallization studies of UNC-69 |
| 1998 | | | |
| Thomas Bridges | Cambridge University | T. Tully | The cloning of the human homologue of the <i>Drosophila</i> learning gene <i>linotte</i> |
| 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 <i>C. elegans</i> |
| Maitreya Dunham | Massachusetts Institute of Technology | R. Martienssen | Molecular genetics of asymmetric leaves 1 in <i>Arabidopsis</i> |
| Kristina Gremski | Yale University | U. Grossniklaus | tlazolteotl: a mutation affecting ovule development and female fertility in <i>Arabidopsis</i> |
| 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 <i>Drosophila</i> 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 |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|----------------------------|--|----------------|---|
| 1999 | | | |
| Kelly Brown | Harding University | B. Stillman | An essential gene for DNA replication. |
| Kevin Christie | College of William and Mary | A. Neuwald | A computational system for comprehensive sequence analysis for protein domains. |
| Heather Cosel-Pieper | New York University | M. Hengartner | Toward an understanding of apoptosis in <i>C. elegans</i> . |
| Adriano Costa de Alcantara | Universidade Federal da Bahia | M. Zhang | First steps in building up a <i>C. elegans</i> 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 <i>Drosophila</i> neuromuscular junction. |
| Daniella Dumitriu | UC Santa Barbara | H. Cline | Behavioral assessment of visual acuity development in <i>Xenopus</i> tadpoles. |
| Fazila Pinar Erciyas | Bogazici University | R.-M. Xu | Purification and crystallization of <i>S. cerevisiae</i> ORC1-BAH domain |
| Rebecca Ewald | King's College London | S. Lowe | Comparison of gene expression profiles of p53-mediated growth arrest and p53-mediated senescence. |
| Sashay Franklyn | Harvard University | S. Grewal | Characterization of Clr6 histone deacetylase. |
| Satoshi Kawashima | University of Kobe School of Medicine | Y. Lazebnik | Epitope mapping by protein fragmentation. |
| Maithreyi Krishnaswami | Hobard and William Smith Colleges | D. Jackson | Regulation of shoot morphogenesis in plants: Studying an altered phyllotaxy in maize. |
| Silja Kuusk | Tartu University | A. Krainer | In vitro selection for exonic splicing silencers. |
| Ben Lehner | Cambridge University | R. Martienssen | Molecular characterization of the gene Argonaute in <i>A. thaliana</i> and <i>S. pombe</i> . |
| 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 <i>Myc</i> . |
| 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 <i>Drosophila</i> . |
| Natasha Thome | 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 <i>Drosophila</i> nitric oxide synthase gene. |
| Keith Wu | Cambridge University | W. Herr | Role of the VP16 core and transcriptional activating regions in HSV virion formation. |
| Trevor Ming-Yee Yeung | Cambridge University | D. Helfman | An investigation into one postulated mechanism regulating the distribution of tropomyosin in human SV80 fibroblasts. |
| 2000 | | | |
| Michelle Aaron | Clarion University | A. Krainer | Exon Definition and Alternative Splice Site Selection in AT-AC Intron Splicing |
| Sarah Addou | University College, London | L. Stein | Genetic Map Display for ACEDB |
| Tariq Ahmad | New York University | R. Kobayashi | Phosphorylation Site Analysis of p62 (dok)" |
| Sarah Archer-Evans | University of Texas | D. Jackson | Expression and Sequence Analysis of fasciated ear2 in maize |
| 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 Kopec | Rutgers University | R. Martienssen | Expanding on a Model for Ramosa's Function in Zea Maize |
| Guillermo Munoz-Elias | Rutgers University | H. Cline | Lending Ears to Silent Synapses: Expression and Regulation of Calcium-Permeable AMPA Receptors in the Retinotectal System of <i>Xenopus</i> |
| Abdullah Ozer | Bilkent University | Y. Lazebnik | Construction of Single-Chain Antibodies against Caspase-7, Caspase-9, and APAF-1 |
| Ramya Rajagopalan | Cornell University | R. McCombie | Sequencing of a Tomato BAC; Analysis of Promoter Regions of Nodulin-Like Genes in <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 Siolas | St. Johns University | G. Hannon | Developing a phenotype array using RNA interference in <i>Drosophila</i> S2 Cells |
| Wisuwat Songnuan | Duke University | M. Timmermans | Repression of Homeobox Genes by Rough Sheath-2 in Maize Lateral Organ Primordia |
| Frederick Tan | Worcester Polytechnic Institute | A. Neuwald | Rapid Sequence Alignment Against Hidden Markov Models |
| Dougal Tervio | Oxford University | T. Zador | Pitch in the Primary Auditory Cortex of the Rat |
| Maria Vichnevskaia | University of Bridgeport | M. Zhang | Identification of CREB Targets in <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 |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|------------------------|----------------------------------|----------------|--|
| Trevor Yeung | Cambridge University | D. Helfman | An Investigation into the Importance of a 13-aa Trigger Sequence in Mediating the Dimerization of LMW Tropomyosin |
| 2001 | | | |
| Brain Adkins | Tuskegee University | M. Hamaguchi | A Study of the DBC2 Gene: Tumor Suppressor Candidate in Breast Cancer |
| Gautam Agarwal | University of Texas | Z. Mainen | Discriminability and Coding of Odors in the Olfactory Bulb |
| Seth Bechis | Harvard University | L. Joshua-Tor | Purification and Crystallization of the Replication Initiation Protein of the Human Papillomavirus High-Risk Strains |
| Alicia Berger | University of Colorado | G. Hannon | Creation of a Phenotype Array Using RNA Interference in Drosophila S2 Cells |
| Kelly Biddle | Rice University | D. Jackson | Intercellular Trafficking of Transcription Factors in Arabidopsis |
| Laura Burrack | Macalester College | B. Stillman | Complex Formation and Function of scMcm Proteins in Initiation of DNA Replication |
| Alison Carey | Pennsylvania State University | J. Yin | Identification of Molecular Partners for the Memory Protein DaPKCz |
| Raymond Chen | Harvard University | W. Tansey | Myc: the Unphosphorylated, the Phosphorylated, and the Imposters |
| Yao Chen | Cambridge University | K. Svoboda | Project I: Visualizing mRNA Trafficking in Living Neurons |
| Benjamin DeBivort | Duke University | Y. Zhong | Roles of Notch and NF1 Proteins in Activity-Dependent Synaptic Plasticity |
| Carolyn Dong | University of Massachusetts | D. Spector | Modulation of Transcriptional Activity by Nuclear Positioning |
| Jovana Drinjakovic | Oxford University | Y. Lazebnik | Oncogenes Induce Cell Fusion |
| Elizabeth Fingar | Ohio University | H. Cline | Homer Constructs in the Xenopus Visual System |
| Lindzy Friend | University of Evansville | A. Krainer | Investigating the Relationship between UP1 and Telomeric DNA using Footprinting Techniques |
| Laurie Friesenhahn | Texas A & M University | S. Grewal | Histone H3 lys9 Methylation and Epigenetic Silencing in Schizosaccharomyces pombe |
| Elizabeth Head | University of Minnesota | R. Martienssen | Characterizing Three Putative RNAi Genes in S. Pombe |
| Michael Hoffman | University of Texas | M. Zhang | ATProbe: Arabidopsis thaliana Promoter Binding Element Database |
| Lindsay 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. Manilow | Involvement of spontaneous activity in the phosphorylation of GluR1/4 by PKA |
| 2002 | | | |
| Gautam Agarwal | University of Texas | Z. Mainen | Modeling Odor Recognition by Neural Synchrony |
| Michalis Agathocleous | Trinity College | H. Cline | CPG Expression Changes Tyrosine Phosphorylation In Vivo |
| Hiroki Asari | University of Tokyo | M. Hamaguchi | Suppression of Dbc2 by RNA Interference |
| Shery Aw | University of Wisconsin | D. Jackson | Protein Trafficking via plasmodesmata in Arabidopsis thaliana |
| Anna Belkina | Russian State Medical University | D. Helfman | Characterization of S100A4 Function |
| Thomas Denkenberger | Pennsylvania State University | A. Stenlund | Studies of the Bovine Papillomavirus E1 Helicase |
| Winfred Frazier | 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. Manilow | Neurons ReAsHed: Imaging a Molecular Model of Memory |
| Rachel Kalmar | USCD | T. Zador | How does the Auditory Cortex encode Complex Sound |
| Renatta Knox | Harvard University | D. Spector | Visualizing UAP56 in Living Cells |
| Erin Kurten | University of Wisconsin | W. Tansey | Developing Tools to Study Interactions between the Proteasome and Med 8 |
| Cindy Lee | SUNY Stony Brook | J. Yin | Molecular Mechanism of Atypical PKM Regulation |
| Cory Lindsay | Wayne State College | E. Hatchwell | A Common Microdeletion at 8q24.3: Population Frequency Analysis |
| Jamie Newman | Amherst College | Y. Lazebnik | Can Primus Regulate Apoptosis |
| 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 |
| 2003 | | | |
| Emily Anderson | Grinnell College | R. McCombie | Gene Prediction: An Assessment of Tools |
| Mollie Biewald | Columbia University | J. Dubnau | Oskar and Staufen: Visualizing Memory Formation |
| Christopher Brown | Clemson University | R. Lucito | Detecting Gene Copy Number Changes in Ovarian Cancer |
| Jessica Cardenas-Navia | Yale University | Y. Lazebnik | Development and Implementation of a Cell Fusion Tracking Assay |
| Rittik Chaudhuri | Duke University | D. Jackson | Potential Plasmodesmata Receptors in Arabidopsis thaliana |
| Galen Collins | Wabash College | M. Timmermans | Understanding Asymmetric Leaves1 Repression of Knox Genes in Leaf Development |
| Catherine Del Vecchio | | B. Tansey | An Investigation into Mediator Factor Med8 and its Potential Role in Ubiquitin-Mediated Proteolysis |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|--------------------------|-------------------------------------|------------------|--|
| 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 |
| Shraddha Pai | University of Waterloo | L. Stein | Reconstructing the Evolutionary History of Olfactory Chemoreceptors in <i>C. elegans</i> and <i>C. briggsae</i> |
| Jonathan Schneideman | Tel Aviv University | G. Hannon | A Species of RISC: Characterizing the Recruitment of Small Interfering RNA in the RNAi Pathway |
| Peter Slomiany | Connecticut College | E. Hatchwell | Mapping a Microdeletion using a Myriad of Methods including Microarrays and Polymorphisms |
| Lieven Van der Veken | Leuven Catholic University Belgium | L. Van Aelst | Oligophrenin, a Study of Interactions |
| John Walach | MIT | K. Svoboda | The Role of Neural Actin Binding Protein in Dendritic Spines Morphogenesis |
| Margaret Wat | Duke University | M. Hamaguchi | RNAi Knockdown of DBC2 |
| Christine Wu | UC Berkeley | W. Herr | Investigating the Role of HCF-1 in Mouse F9 Cell Differentiation |
| Maria Zhadina | Brandeis University | D. Helfman | Characterization of p21 Function in Cell Motility |
| 2004 | | | |
| Juan Aragon | Armstrong Atlantic State University | G. Hannon | Mapping of the Interaction of the 5' end of the siRNA with Argonaute |
| Srinjan Basu | Cambridge University | S. Muthuswami | Role of par genes in cell proliferation |
| Johanna Berberena | Hunter College | J. Dubnau | Expression Study of Long-Term Memory Gene Thor (4E-BP) |
| Heeran Buhecha | Cambridge University | B. Stillman | Characterisation of hORC1 ubiquitination |
| Briana Burden | UCLA | L. Van Aelst | Molecular Characterization of DOCK7 |
| John Colarco | University of Toronto | A. Krainer | SMN alternative splicing and Spinal Muscular Atrophy |
| Carol Cho | Seoul National University | L. Joshua-Tor | The Genetic Switch - Elucidating the Structural Components of the Gal Transcription System |
| Boaz Gildor | Tel Aviv University | E. Hatchwell | Gene expression analysis in putative centromere position effect |
| Katrina Gold | Cambridge University | R. Martienssen | How are RNA-dependent RNA polymerases and Dicers involved in microRNA-based gene regulation? |
| Emily Helcamp | Duke University | V. Mittal | A Role for Id1 and Id3 in Tumor Angiogenesis |
| Max Jan | Princeton University | D. Jackson | Characterization of a Defect in Protein Trafficking in Arabidopsis |
| Miranda Kim | Amherst College | R. McCombie | Epigenetic Modification in Cancer |
| Matthew Klein | Reed College | R. 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. Sachidanandam | 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 |
| 2005 | | | |
| Vineeta Agarwala | Stanford University | M. Zhang | CTCF Binding Site Specificity and Distribution |
| Albert Almeta | 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 <i>A. thaliana</i> |
| 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 | Drosophila deficiency mapping using whole-genome tiling arrays |
| Christopher Javadi | University of Texas at Austin | J. Dubnau | Developing an in vitro assay for studying the function of bone marrow-derived lineage depleted cells in vasculature formation. |
| Betty Kong | Rutgers University | V. Mittal | Prp8 - the elusive structure of a crucial spliceosomal component |
| Marek Kudla | Warsaw University | R.-M. Xu | Mutational Analysis of the Oncogenic Activity of SF2/ASF |
| Scott Millman | Cornell University | A. Krainer | Genome-wide SNPs detection in <i>Oryza sativa</i> /strains using a massively parallel sequencing strategy |
| Alexandra Nica | International University Bremen | R. McCombie | Binding of mitotic cyclins to Cdc6 and ORC as regulators of pre-replication complex formation. |
| Krishnan Palaniappan | Carnegie Mellon University | B. Stillman | Investigations into the Affects of Asymmetric Leaves 1 in Arabidopsis |
| Vanessa Ringgold | University of California at Davis | M. Timmermans | Oligophrenin: where art thou? Detecting OPHN-specific phage clones for subsequent germ line manipulation in mice |
| Margot Rommens | University of Leuven | L. Van Aelst | Silencing Par6a in Breast Epithelial Cell Lines |
| Tasleem Samji | Cambridge University | S. Muthuswami | High Throughput RT-qPCR: Narrowing the list of candidate tumor suppressor genes and ovarian other cancers |
| Christian Sanchez-Jordan | John Hopkins University | R. Lucito | Isolation of FEA2 and associated proteins |
| Nora Seidl | Cambridge University | D. Jackson | |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|----------------------|--|-----------------|--|
| Victoria Svinti | Nui Maynooth, Ireland | L. Stein | Programmed frameshifts in Paramecium |
| Thomas Takara | Grinnell College | L. Joshua-Tor | A structural investigation of papillomavirus replication initiation protein E1 |
| Ye Wang | University of Rochester | C. Schultz | To Be Stem Cells, Or Not To Be |
| Kelly Wetmore | University of California Los Angeles | W. Lukowitz | Mapping Quantitative Trait Loci that modify mutations in SHORT SUSPENSOR, a predicted kinase regulating plant embryogenesis |
| Laura Wherity | Oxford University | A. Koulakov | Obtaining graded values of synaptic strength in the CaMKII and PP1 feedback loop in neurons |
| David Wurtz | Olin College of Engineering | Y. Lazebnik | |
| 2006 | | | |
| Katherine Amodeo | Marist College | V. Mittal | Role of tumor growth factor VEGF in bone marrow-dependent angiogenesis-mediated tumor growth |
| Lenore Barhak | The Cooper Union | L. Joshua-Tor | A Molecular View of 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 <i>Arabidopsis</i> |
| Oleg Dmytrenko | International University Bremen | D. Jackson | Analysis of gat2- Mutants with Reduced Plasmodesmata Size Exclusion Limit (<i>Arabidopsis thaliana</i>) Weeding for phenotypes and motifs in a weed, in the field, and within genomes |
| Nandita Garud | Cornell University | D. Ware | Characterizing the Binding Specificity of CTCF |
| Julie Granka | Cornell University | M. Zhang | Characterization of a New S6 Kinase 1 Isoform |
| Paloma Guzzardo | University of Puerto Rico | A. Krainer | Novel protein Lucky Luke and Cellular Integrity |
| Lillian Ho | Vassar College | C. Schultz | The AS1/AS2 and ta-siRNA pathways regulate <i>MIR166</i> gene expression in <i>Arabidopsis</i> |
| William Kruesi | Carleton College | M. Timmermans | Knock-downs and neurons: Using RNAi to specify cell fate in mouse embryonic stem cells |
| Carolyn Leeds | Amherst College | P. Paddison | How old are Introns? |
| Wenke Li | Stevens Institute of Technology | R. Sachidanadam | The role of the <i>Saccharomyces cerevisiae</i> gene Sc11 in proteasome mediated transcriptional pathways. |
| Adam Lowe | Salisbury University | B. Tansey | An Improved Neural Spike Clustering Approach |
| Christopher Quinn | Cornell University | A. Koulakov | Developing a Direct Biochemical Method to Identify the Targets of microRNAs |
| Brian Schmidt | Indiana University, Bloomington | G. Hannon | The Role of the X-Linked Mental Retardation Protein Oligophrenin-1 in Glutamate Receptor Signaling |
| Kathryn Schmidt | Yale University | L. Van Aelst | RNAi & Gene silencing effects on <i>Arabidopsis</i> development |
| Tal Shamia | Tel Aviv University | R. Martienssen | Oscillatory Brain Dynamics of Working Memory: A Simultaneous MEG and EEG Study |
| Joshua Siegle | Brown University | P. Mitra | Bgl II Fragment Selection in the Human Genome using Different Hybridization-Based Selections |
| Lincoln Smith | Wabash College | R. McCombie | Construction of RNAi for Neurofibromatosis Type 1 |
| Britni Stenard | Bethel College | Y. Zhong | The Role of Orc2 in Mitotic Checkpoint Assembly |
| Kipp Weiskopf | Amherst College | B. Stillman | Visualization of <i>C. elegans</i> Gene Expression Data in Wormbase |
| Vicky Zhou | University of California, Irvine | L. Stein | |
| 2007 | | | |
| Vikram Agarwal | University of Texas at Austin | L. Stein | Characterizing Coverage and Chromosomal Rearrangement in the Watson Genome |
| Jack Angiolillo | Amherst College | L. Joshua-Tor | Attempting to Crystallize and Solve the Structure for the ORC 2-3 subcomplex |
| Christine Cho | Brown University | J. Dubnau | MicroRNAs in memory: Characterization of miR276a expression |
| Karla Claudio-Campos | University of Puerto Rico, Cayey | G. Hannon | Devil Facial Tumor Disease |
| Emily Combs | Cornell University | D. Ware | Validation of non-canonical introns in rice and a yeast-one hybrid system in <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 |
| Sarah Sansom | Ohio State University | M. Timmermans | Understanding Leaf Polarity Pathways |
| Christine Schenck | Marist College | R. Lucito | An Investigation of Histone Modifications using ChIP-on-chip |
| Kathryn Schmidt | Yale University | L. Van Aelst | The Role of the X-Linked Mental Retardation Protein Oligophrenin-1 in Glutamate Receptor Signaling |
| Josh Silverman | Duke University | M. Zhang | Novel miRNAs: Just a few clicks away |
| Alison Spencer | University of Rochester | V. Mittal | Identification and Preliminary Characterization of the Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) Expressing Cell in Murine Bone Marrow |
| Sarah Timm | Dickinson College | R. Sordella | Non-Small Cell Lung Cancer: Animal Models and Cancer Stem Cells |
| Paul Wolski | Cornell University | H. Furukawa | Structural Analysis of the NMDA Receptor NR2D Subunit Ligand Binding Core |
| John Xue | Cambridge University | R. Martienssen | The regulatory roles of <i>ASYMMETRIC LEAVES1</i> and putative RNA-dependent |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|--------------------------|--|----------------|---|
| | | | RNA polymerases in <i>Arabidopsis</i> |
| 2008 | | | |
| Alison Baker | Dartmouth College | T. Zador | A Role for Rat Auditory Cortex in Attention in Time to Auditory Stimuli |
| Walter Barry | Tufts University | B. Stillman | Analysis of Yeast Replication Origins via Two Dimensional Gel Electrophoresis |
| Colleen 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 a ubiquitin ligase RPC |
| Richie Gerard | University of St. Andrews | D. Spector | In Vivo Studies of the H3K27 Demethylase JmJ3 |
| 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 Jimenez | 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 | Phylogenetics 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. Muthuswamy | Scribble Expression in Mammary Epithelial Cells with Low <i>let7c</i> miRNA |
| 2009 | | | |
| Christopher Bennett | McGill University | A. Krainer | Presence of Intronic Splicing Silencers Downstream of 5' Splice Sites |
| Philippa Borrill | University of Cambridge | D. Jackson | Cell-to-cell trafficking of transcription factor KNOTTED1/SHOOTMERISTEMLESS: Why and How? |
| Marcella Carmona | University of Pennsylvania | M. Timmermans | The Contribution of Polarity Determinants to Organ Development |
| Phillip Coffman | University of New Mexico | P. Mitra | Completing the Circuit: A Practical Technique to Trace Long Range Projections in the Brain |
| Danielle Feldman | Hunter College | J. Dubnau | Expression and Localization of Lightoid (Beck-1) in <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 Padres | B. Li | Effect of ketamine on striatum and nucleus accumbens neuronal activity |
| Julia Rogers | Yale University | L. Joshua-Tor | Transducer and Repressor Complex in the Yeast GAL Induction System |
| Natalie Straight | Cornell University | J. Huang | Characterizing Cell Adhesion Molecules in GABAergic Synapses: Neurexin and Neuroligin |
| Tim Wang | University of California, Berkeley | S. Powers | An Investigation of the Liver Cancer Epigenome |
| Katie Washington | Notre Dame University | R. Sordella | Molecular Mechanism of EGFR Addiction in H4006 Non-Small Cell Lung Carcinoma |
| 2010 | | | |
| Robert Aboukhalil | McGill University | M. Atwal | Colocalization of Tumor Suppressor Genes |
| Emily Bottle | University of Cambridge | T. Zador | Screening the brain areas involved in sensori-motor association |
| Alexandra Bryson | Texas A & M University | B. Stillman | Exogenous Expression of DDX5 RNA Helicase |
| Diana Cal | Columbia College | Y. Zhong | Combining two gene targeting systems to investigate crosstalk between the mushroom body and central complex in <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? |
| Helen Cha | 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? |
| Claudio Morales-Perez | University of Puerto Rico | H. Furukawa | Understanding the molecular mechanism of antagonism in NMDA receptor |
| Angelina Regua | Molloy College | L. Joshua-Tor | Organization of ClrC (Clr4-Rik1-Cul4) complex |
| Hanna Retallack | Harvard University | A. Kepecs | Acetylcholine and the basal forebrain in a sustained attention task |
| Sarah Shareef | Harvard University | C. Vakoc | Condensin Localization Along Mitotic Chromatin |
| Ayse Trolander | Carleton College | A. Mills | p63 point mutation causing EEC syndrome alters gene expression in vitro |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|------------------------|--|----------------|---|
| 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 |
| 2011 | | | |
| Paul Baranay | University of Notre Dame | M. Schatz | Metassembler: A secret weapon for winning Assemblathon 2 |
| Tumas Beinortas | Cambridge University | L. Trotman | Characterization of signature gene expression in <i>Pten</i> loss associated senescence PICS |
| Lital Charatarfsky | 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 <i>Grifola frondosa</i> Metalloendopeptidase |
| Claire Edgcumbe | University of British Columbia, Canada | B. Li | ErbB4's effect on the morphology of somatostatin cell in the thalamic reticular nucleus |
| Thomas Erskine | Florida State University | A. Koulakov | Modeling the Human Brain: A Mathematical Approach |
| Gregory Fitzgerald | Queens College | P. Osten | Anterograde Tracing of the Infralimbic Cortex in Ng3 R451C and Wild-Type Mice |
| Ann-Desdemonia Fowajuh | University of Maryland, Eastern Shore | G. Enikolopov | The Molecular Mechanism of NO and its Role in Cilia Function |
| Hannah Gendelman | Amherst College | G. Turner | Light as a Remote Controller of the Proboscis Extension Response in <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 |
| 2012 | | | |
| Francesca Aloisio | University of Texas at Austin | G. Hannon | Using RNA-FISH to characterize the localization of novel lincRNAs in the mouse hematopoietic system |
| Sarah Anderson | University of North Carolina-Chapel Hill | G. Hannon | Characterizing the role of pachytene piRNAs in mice |
| Marta Andrés Terré | UPenn, Universitat de Barcelona | M. Timmermans | Defining the developmental profile of miRNA mobility |
| Dhruba Banerjee | University of California, Berkeley | F. Albeanu | Top-Down Control of Invariant Odor Perception |
| Alexandra Batchelor | University of Cambridge, UK | A. Kepecs | How does cocaine affect optimal decision making? |
| Eleanor Batty | Brown University | A. Churchland | Encoding of Head Movement in Posterior Parietal Cortex |
| Eric Biggers | Macalester College | M. Schatz | Assembling the Pineapple Genome |
| Jeetayu Biwas | Brandeis University | D. Pappin | Human Thymosin α -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 Gruningner | 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 <i>Arabidopsis</i> male germline development |
| Marissa LaMoure | University of Texas at Austin | B. Stillman | Elucidating the Orc2 – BubR1 Interaction |
| Ryan Lee | California State University San Bernardi | Y. Zhong | <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 Raimer | Widener University | A. Krainer | Splicing Variability of Spinal Muscular Atrophy |
| Ian Stephens | Trinity College, Dublin, Ireland | J. Huang | Genetic Targeting of Cortical Pyramidal Neuron Subtypes Using Mouse Engineering |
| Edward Twomey | Seton Hall University | L. Joshua-Tor | Characterization of Gtsf1 involvement in the piRNA pathway |
| 2013 | | | |
| Lauren Choate | Truman State University | M. Timmermans | Mapping and Characterization of a Leaf Polarity Mutant in Maize: rld-5409 |
| Amy Danson | University of Cambridge | D. Tuveson | Optimizing Growth Conditions of Normal and Diseases Pancreatic Organoids to Study and Identify Pancreatic Cancer Biomarkers |
| Abhishek Dev | Bard College | A. Kepecs | Effect of Morphine on Decision Making |
| Maria Eguiluz | Hope College | G. Hannon | Characterization of Nuclear Protein CG13741 in the Germline piRNA Pathway |
| Michael Fishman | Swarthmore College | P. Osten | The Role of the Medial Amygdala and Ventromedial Hypothalamus Circuit in Mouse Social Behavior |
| Emily Flynn | Smith College | T. Gingeras | Examining RNA Annotation and Quantification by RAMPAGEL Comparison with RNA-seq and Pol II |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|-------------------------|--|----------------|---|
| Heather Fuller | University College London | J. Dubnau | Gypsy virus and Neurodegenerative Disorders |
| Gregory Fuller | Johns Hopkins University | J. Huang | Chandelier Cells and Apoptosis |
| Michael Jacobs | Oberlin College | L. Joshua-Tor | CG3893 and the piRNA Pathway |
| Victoria Jones | North Carolina Central University | A. Mills | The Role of Plant Homeodomains (PHDs) of Chromodomain Helicase DNA Binding Protein 5 in Neural Stem Cells |
| David Kleinman | University of Toronto | L. Trotman | STAT3 inhibition and Prostate Cancer |
| Ricki Korff | Cornell University | M. Atwal | Germine 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 FE44, 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>D/SC1</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 |
| 2014 | | | |
| Henry Ashworth | Eckerd College | M. Egeblad | The Mystery of Lysyl Oxidase Pancreatic Cancer |
| Patricia Aubele | 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 Burdzialek | 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 Germine Gene Expression in Glioblastoma Multiforme and Breast Cancer |
| Michael Gross | Cornell University | F. Albeau | Behavioral Effects of Cortico-bulbar Feedback Manipulation in Mice |
| Melina-Theoni Gyparakis | 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. Koulikov | 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 Rummmler | Clemson University | Z. Lippman | Meristem Regulation and the Fin and Fan Mutants in Tomato |
| Michael Sayegh | Harvard College | B. Stillman | Gene Regulation via RB and ORC1 Interaction |
| Selin Schamiloglu | Columbia University | J. Huang | Investigating the Role of Chandelier Cells in Fear Circuitry |
| Rachel Sherman | Harvey Mudd College | M. Schatz | Whole Genome Assembly and Alignment Pipeline For Unique Gene Discovery |
| Toby Turney | University of Notre Dame | D. Pappin | Improving the Yield and Purity in a Large-Scale Expression and Purification of Velocin-N |
| Victoria Wang | University of Cambridge | L. Trotman | CRISPR/Cas9 as a Genome-Editing Tool to Investigate Metastatic Prostate Cancer |
| 2015 | | | |
| Melanie Abegglen | University of Cambridge | R. Martienssen | DNA Methylation and Epigenetic Inheritance in Arabidopsis thaliana |
| Marley Alford | Bard College | M. Schatz | Threading Through the Breast Cancer Genome with PacBio Sequencing Data |
| Patrick Aoude | University of Massachusetts Amherst | C. Hammell | Post-Transcriptional Gene Regulation in <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 | Chandelier Cell Selectivity in a Prefrontal Fear Circuit |
| Gabriel Mel | University of Southern California | P. Mitra | Algorithms for Automatic Anatomical Segmentation in Mouse Brain Nissl Slices |
| Robert Ontiveros | California State University Fullerton | Z. Lippman | The Tomato Flowering Transition Proteins TMF and BOP Enhance Transcription In Vitro |
| Luqun Shen | University of Notre Dame | L. Trotman | Mitochondrial DNA and Bone Metastasis in Prostate Cancer |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|--------------------------|--|----------------|---|
| Cole Townsend | University of Oklahoma | M. Egeblad | The Tumor Microenvironment and Phenotypic Plasticity |
| Kellie Wilson | Washington University in St. Louis | F. Albeanu | Light-Induced Olfactory Detection |
| 2016 | | | |
| Toby Aicher | Middlebury College | M. Hammell | Investigating drug resistance in melanoma using single-cell RNA-sequencing |
| 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 β 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. Koullakov | 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 |
| Loma Wills | University of Cambridge | L. Trotman | The effect of targeting Phlpp2 on cell proliferation and pAkt and Myc signaling pathways |
| 2017 | | | |
| George Bekheet | Northeastern University | A. Churchland | Multisensory integration during an audiovisual looming stimulus |
| Benjamin Isaac Cohen | New York University | J. Huang | Exploring the Cellular Basis of the Circuitry and Functional Organization of Mouse Motor Cortex |
| Sean Connolly | 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 Cuniff | 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 Parous Epigenetic Landscape |
| Marianna Frey | Williams College | A. Kepecs | Adenosinergic modulation of optimal foraging decisions |
| James Gomet | 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 |
| 2018 | | | |
| Chimsom Agbim | Vanderbilt University | L. Trotman | Exosomes as Therapeutic Biomarkers in Prostate Cancer |
| Anisha Babu | The Ohio State University | F. Albeanu | Revolving Odor Delivery Machine |
| Basheer Becerra | Illinois State University | A. Krasnitz | A bioinformatics pipeline for copy-number feature extraction used for predicting tumor organoid chemo-sensitivity |
| Gavriela Carver | Cornell University | D. Jackson | Investigating the roles of trehalose-6-phosphate phosphatases in plant development |
| George Chen | University of British Columbia | B. Li | Monitoring Home-cage Behaviour of 16p11.2+/- Mice to Determine Their Viability as a Model for Autism in Humans |
| Kevin Chen | University of Maryland, Baltimore County | B. Stillman | Role of ORC4 and ORC2 in ORC origin sequence specificity |
| Sterling Evans | University of Missouri | R. Martienssen | Understanding easiRNA in <i>Arabidopsis thaliana</i> Pollen |
| Itai Levin | Cornell University | T. Zador | Mapping Neuronal Projections from the Mouse Periaqueductal Gray |
| Matheo Morales | Arizona State University | D. Spector | Characterization of long noncoding RNA lnc10 in neurodevelopment |
| Noelle Ozimek | Queen Mary University of London | P. Osten | C-fos screening for cellular resolution mapping of behaviorally evoked whole brain activation in APPSWE mouse model |
| Matthew Peacey | University of Cambridge | U. Pedmale | Investigating interaction of CRY2 with MOST1 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 |

CSHL Undergraduate Research Program Participants 1959 - 2021

| URP name | University | Advisor | Research Project |
|-----------------------|---|---------------|--|
| 2019 | | | |
| Dominik Aylard | University of California, Davis | C. dos Santos | Aging and NKT cell inactivity decrease breast cancer prevention in advanced-age pregnancies |
| Alison Bashford | Muhlenberg College | S. Shea | Instinct and Altruism in Pup Retrieving Mice |
| Nathan Castro Pacheco | Northeastern University | A. Dobin | Single-cell Transcript Isoform Abundance Estimation using an Expectation Maximization Maximum Likelihood (EM-ML) Algorithm |
| Andrew Claros | City University of New York Queens College | F. Albeanu | Cortical feedback from the olfactory cortex affects firing of mitral cells |
| Emma Cravo | Union College | A. Churchland | The Role of the Parietal and Frontal Cortex during Sensory-Guided Decision-Making |
| Faniya Doswell | Norfolk State University | P. Osten | Comparative Mapping of Neuron Populations in Prairie Voles and Mice |
| Ahmet Doymaz | CUNY Hunter College | L. Joshua-Tor | Structural Study of Exonuclease Dis3l2's RNA-Unwinding Activity |
| Jasmin Fleuranvil | University of Chicago | L. Trotman | The role of Axl as a putative regulator of migration and morphology in prostate cancer |
| Tara Gallagher | University of Notre Dame | T. Gingeras | A study of the role of RNase 1 in the processing of RNA in extracellular vesicles |
| Nathaniel Gary | Cornell University | A. Krainer | SRSF3-regulated Alternative Splicing and Nonsense-mediated mRNA Decay in Cancer |
| Owen Hughes | University of Michigan | T. Engel | Towards Inference of Non-stationary Langevin Dynamics from Spike Data |
| Mackenzie Litz | Smith College | A. Koulakov | Understanding the organization of the nervous system: identifying patterns in neuronal responses to 3D molecular structure in the accessory olfactory system |
| Sarah Mantell | California Polytechnic State University San Luis Obispo | A. Kepecs | An Investigation of the Inverse Comorbidity Between Neurodegenerative Disorders and Cancers |
| Blake Nelson | University of the Sciences | D. Spector | Examining the Expression of MALAT1 Long Non-Coding RNA in Human Breast Tumor Organoids |
| Samantha Rothberg | Amherst College | D. Ware | The Effect of Phosphorus Regulatory Genes on Root System Architecture in Arabidopsis |
| Charlotte Simpson | Durham University | M. Egeblad | The major signalling molecules involved in classical and non-classical NETosis |
| Abraham Steinberger | Williams College | D. Jackson | RAMOSA3 and its Potential RNA-binding Protein Interactors |
| Yin Yuan | University of Cambridge | C. Vakoc | Defining critical residues of the POU homeodomain transcription factor OCT-11 that sustain tuft cell lung cancer growth |
| 2020 | | | |
| Cancelled | | | |
| 2021 | | | |
| Vandana Agarwala | Pennsylvania State University | P. Koo | Representation Learning of Genomic Sequence Motifs via Generative Adversarial Network Model |
| Jessica Dixon | Florida State University | L. Cheadle | Defining the Interactions Between Microglia and Oligodendrocyte Precursor Cells in Synapse Elimination |
| Matias Enriquez | Williams College | C. dos Santos | Exploring Parity Induced Effects of EZH2 Inhibited Cells Grown with EPP Through Cut & Run Histone Modification Analysis |
| Rajee Ganesan | University of North Carolina at Chapel Hill | H. Meyer | Integrative Analysis of single cell expression and chromatin states in Medullary Thymic Epithelial Cells |
| Emily Guemsey | 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> |