Watson School 2014 Ph.D.s

Université Paul Sabatier - Toulouse III
Florence Gould Fellow

"Promoter evolution in *Drosophila*: non-coding transcription & transposon-driven innovation"

How "silent" areas of the genome can have a dramatic impact on how genes are expressed.

Università degli Studi di Pisa/ Scuola Normale Superiore
Goldberg-Lindsay Fellow

"A novel technology for the space-specific recovery of biological molecules"

Development of a laser-based technology to discover how gene expression varies at different locations within a cell.

University of Sydney
George A. and Marjorie H. Anderson Fellow
Genentech Foundation Fellow

"Characteristics of random monoallelic gene expression during embryonic stem cell differentiation"

A random feature of gene expression illuminates a surprising variability in how genes are used.

University of Guelph
William R. Miller Fellow
NSERC Scholar

"Meristem size and determinacy in maize"

How stem cell activity in plants can be exploited to increase food production.

Saint-Petersburg State Polytechnical University
Charles A. Dana Fellow

"Synaptic changes in the medial prefrontal cortex in susceptibility and resilience to stress"

How changes in neurons may underlie the behavior known as learned helplessness, a major symptom of depression.

Cornell University
Alfred D. Hershey Fellow

"Regulation of the auxin response by an ancient small RNA pathway"

How a small RNA pathway regulates the evolution of developmental programs in plants.

University of Warsaw
George A. and Marjorie H. Anderson Fellow

"Quantitative description of micro-RNA target site occupancy in mouse embryonic stem cells and derived cells of neuronal lineage"

Novel applications of sequencing technology to understand how small RNA pathways control gene expression in stem cells.

The University of New Mexico
National Science Foundation Graduate Research Fellow
Starr Centennial Fellow

"Investigating the roles of gene dosage and stem cell maintenance in the regulation of plant shoot and inflorescence architecture"

The genetic basis of the development of specialized reproductive branches that control fruit production.

Stony Brook University
Farish-Gerry Fellow
William Randolph Hearst Foundation Scholar

"A high throughput sequencing approach to mapping synaptic connectivity in the brain"

A new approach that uses DNA sequencing to map all of the neuronal connections in the mouse brain.

Stony Brook University
Farish-Gerry Fellow

"A computational framework for understanding decision confidence"

Determining the neural basis of decision making among the vast array of electrical signals in the animal brain.

University of Warsaw
George A. and Marjorie H. Anderson Fellow

"Unusual aspects of piRNA pathways in mice and flatworms"

Discovery of a protein that controls a small RNA pathway in reproductive cells to protect the genome from damage during the development of eggs and sperm.

B.S., 1964 Chemistry, California Institute of Technology

Ph.D., 1969 Biochemistry & Molecular Biology, Harvard University

Richard R. Burgess, Ph.D., James D. Watson Professor Emeritus of Oncology at the University of Wisconsin, received an honorary degree. An important figure in cancer, microbial and molecular research worldwide, Dr. Burgess has focused on RNA polymerase and the regulation of transcription. He has been the heart of the CSHL Course titled "Protein Purification & Characterization" since 1992. Dr. Burgess earned his Ph.D. at Harvard University under the tutelage of Dr. Watson.