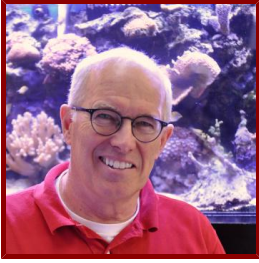


Stanford



John R. Pringle

Professor of Genetics

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Member, Bio-X

PROFESSIONAL EDUCATION

- Ph.D., Harvard University , Biology (1971)
- A.B., Harvard University , Mathematics (1963)

LINKS

- Pringle Lab website: <http://pringlelab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Much of the research in the Pringle laboratory exploits the power of yeast as an experimentally tractable model eukaryote to investigate fundamental problems in cell and developmental biology such as the mechanisms of cell polarization and cytokinesis. In regards to cell polarization, the major current foci are the roles of cortical marker proteins and of a GTPase-based signal-transduction cascade in the selection of the polarization axes (as defined by the bud sites). Interestingly, the marker proteins appear to be delivered to polarized sites in the cell surface by an unconventional arm of the secretory pathway. In regards to cytokinesis, the major current foci are the roles of the septin proteins and the interactions among the actomyosin contractile ring, the enzymes of extracellular-matrix (cell-wall) synthesis, and proteins that appear to be involved in plasma-membrane reorganization. Our working hypothesis is that the conserved core mechanism is the rearrangements of the membrane during cleavage-furrow formation and that the actomyosin ring and extracellular matrix play accessory roles.

In a departure from our many years of yeast work, a major new project involves developing the small sea anemone *Aiptasia pallida* as a model system for study of the molecular and cellular biology of the dinoflagellate-cnidarian symbiosis, which is critical for the survival of most reef-building corals but still very poorly understood. Processes to be investigated include the recognition and signaling events involved in symbiosis establishment, the temporal and spatial coordination of symbiont and host cell cycles during symbiosis maintenance, and the signaling and cellular processes involved in symbiosis breakdown under stress. Currently much of our effort is directed at genomic analysis and method development that will underpin later studies.

Teaching

COURSES

2021-22

- Advanced Genetics: GENE 205 (Win)

- Current Issues in Genetics: GENE 219 (Aut, Win, Spr, Sum)
- Frontiers in Biological Research: BIOC 215, DBIO 215, GENE 215 (Aut, Win, Spr)
- Genetics and Developmental Biology Training Camp: DBIO 200, GENE 200 (Aut)

2020-21

- Advanced Genetics: GENE 205 (Win)
- Current Issues in Genetics: GENE 219 (Aut, Win, Spr, Sum)
- Frontiers in Biological Research: BIOC 215, DBIO 215, GENE 215 (Aut, Win, Spr)
- Genetics and Developmental Biology Training Camp: DBIO 200, GENE 200 (Aut)

2019-20

- Advanced Genetics: GENE 205 (Win)
- Current Issues in Genetics: GENE 219 (Aut, Win, Spr, Sum)
- Frontiers in Biological Research: BIOC 215, DBIO 215, GENE 215 (Aut, Win, Spr)
- Genetics and Developmental Biology Training Camp: DBIO 200, GENE 200 (Aut)

2018-19

- Advanced Genetics: GENE 205 (Win)
- Frontiers in Biological Research: BIOC 215, DBIO 215, GENE 215 (Aut, Win, Spr)
- Genetics and Developmental Biology Training Camp: DBIO 200, GENE 200 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Alanna Pyke, Nia Walker

Postdoctoral Faculty Sponsor

Rossie Clark-Cotton, Lorraine Ling, Gabe Rosenfield

Orals Evaluator

Amr Mohamed

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Genetics (Phd Program)

Publications

PUBLICATIONS

- **Conversion of oxybenzone sunscreen to phototoxic glucoside conjugates by sea anemones and corals.** *Science (New York, N.Y.)*
Vuckovic, D., Tinoco, A. I., Ling, L., Renicke, C., Pringle, J. R., Mitch, W. A.
2022; 376 (6593): 644-648
- **Reduced thermal tolerance in a coral carrying CRISPR-induced mutations in the gene for a heat-shock transcription factor.** *Proceedings of the National Academy of Sciences of the United States of America*
Cleves, P. A., Tinoco, A. I., Bradford, J., Perrin, D., Bay, L. K., Pringle, J. R.
2020
- **Insights into coral bleaching under heat stress from analysis of gene expression in a sea anemone model system.** *Proceedings of the National Academy of Sciences of the United States of America*
Cleves, P. A., Krediet, C. J., Lehnert, E. M., Onishi, M., Pringle, J. R.
2020

- **Impact of menthol on growth and photosynthetic function of *Breviolum minutum* (Dinoflagellata, Dinophyceae, Symbiodiniaceae) and interactions with its *Aiptasia* host.** *Journal of phycology*
Clowe, S., Renicke, C., Pringle, J. R., Grossman, A. R.
2020
- **Cleavage-furrow formation without F-actin in *Chlamydomonas*.** *Proceedings of the National Academy of Sciences of the United States of America*
Onishi, M., Umen, J. G., Cross, F. R., Pringle, J. R.
2020
- **Symbiont population control by host-symbiont metabolic interaction in Symbiodiniaceae-cnidarian associations.** *Nature communications*
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2020; 11 (1): 108
- **F-actin homeostasis through transcriptional regulation and proteasome-mediated proteolysis.** *Proceedings of the National Academy of Sciences of the United States of America*
Onishi, M., Pecani, K., Jones, T. 4., Pringle, J. R., Cross, F. R.
2018
- **CRISPR/Cas9-mediated genome editing in a reef-building coral** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Clevesa, P. A., Strader, M. E., Bay, L. K., Pringle, J. R., Matz, M. V.
2018; 115 (20): 5235–40
- **Role of the Hofl-Cyk3 interaction in cleavage-furrow ingression and primary-septum formation during yeast cytokinesis** *MOLECULAR BIOLOGY OF THE CELL*
Wang, M., Nishihama, R., Onishi, M., Pringle, J. R.
2018; 29 (5): 597–609
- **Glucose-Induced Trophic Shift in an Endosymbiont Dinoflagellate with Physiological and Molecular Consequences** *PLANT PHYSIOLOGY*
Xiang, T., Jinkerson, R. E., Clowe, S., Tran, C., Krediet, C. J., Onishi, M., Cleves, P. A., Pringle, J. R., Grossman, A. R.
2018; 176 (2): 1793–1807
- **Evidence for miRNA-mediated modulation of the host transcriptome in cnidarian-dinoflagellate symbiosis** *MOLECULAR ECOLOGY*
Baumgarten, S., Cziesielski, M. J., Thomas, L., Michell, C. T., Esherrick, L. Y., Pringle, J. R., Aranda, M., Voolstra, C. R.
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- **Robust Transgene Expression from Bicistronic mRNA in the Green Alga *Chlamydomonas reinhardtii*.** *G3 (Bethesda, Md.)*
Onishi, M., Pringle, J. R.
2016
- **Relative Contributions of Various Cellular Mechanisms to Loss of Algae during Cnidarian Bleaching** *PLOS ONE*
Bieri, T., Onishi, M., Xiang, T., Grossman, A. R., Pringle, J. R.
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- **Evidence That an Unconventional Actin Can Provide Essential F-Actin Function and That a Surveillance System Monitors F-Actin Integrity in *Chlamydomonas*.** *Genetics*
Onishi, M., Pringle, J. R., Cross, F. R.
2016; 202 (3): 977-996
- **Analysis of Rho-GTPase Activity During Budding Yeast Cytokinesis.** *Methods in molecular biology (Clifton, N.J.)*
Onishi, M., Pringle, J. R.
2016; 1369: 205-218
- **The nonopisthokont septins: How many there are, how little we know about them, and how we might learn more.** *Methods in cell biology*
Onishi, M., Pringle, J. R.
2016; 136: 1-19
- **Forty-five years of cell-cycle genetics** *MOLECULAR BIOLOGY OF THE CELL*
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- **Regulation of spindle pole body assembly and cytokinesis by the centrin-binding protein Sfi1 in fission yeast.** *Molecular biology of the cell*
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- **Actin is required for IFT regulation in *Chlamydomonas reinhardtii*.** *Current biology*
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- **An enduring enthusiasm for academic science, but with concerns** *MOLECULAR BIOLOGY OF THE CELL*
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Tuo, S., Nakashima, K., Pringle, J. R.
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 - **Apparent Defect in Yeast Bud-Site Selection Due to a Specific Failure to Splice the Pre-mRNA of a Regulator of Cell-Type-Specific Transcription** *PLOS ONE*
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 - **Fission yeast Cyk3p is a transglutaminase-like protein that participates in cytokinesis and cell morphogenesis** *MOLECULAR BIOLOGY OF THE CELL*
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 - **Evidence that a septin diffusion barrier is dispensable for cytokinesis in budding yeast** *BIOLOGICAL CHEMISTRY*
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 - **New insights into the phylogenetic distribution and evolutionary origins of the septins** *BIOLOGICAL CHEMISTRY*
Nishihama, R., Onishi, M., Pringle, J. R.
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 - **Cooperation Between the Septins and the Actomyosin Ring and Role of a Cell-Integrity Pathway During Cell Division in Fission Yeast** *GENETICS*
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 - **Role of Septins in the Orientation of Forespore Membrane Extension during Sporulation in Fission Yeast** *MOLECULAR AND CELLULAR BIOLOGY*
Onishi, M., Koga, T., Hirata, A., Nakamura, T., Asakawa, H., Shimoda, C., Baehler, J., Wu, J., Takegawa, K., Tachikawa, H., Pringle, J. R., Fukui, Y.
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 - **Role of Inn1 and its interactions with Hof1 and Cyk3 in promoting cleavage furrow and septum formation in S. cerevisiae** *JOURNAL OF CELL BIOLOGY*
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- **Origins and development of the septin field.** In *"The Septins"* (P.A. Hall, S.E.H. Russell & J.R. Pringle, eds.). Wiley-Blackwell.
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