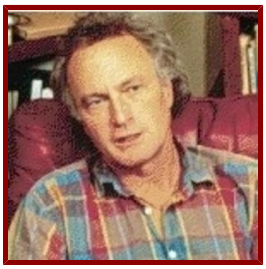
Stanford



Stuart Thompson

Professor of Biology (Hopkins Marine Station)

Bio

ACADEMIC APPOINTMENTS

- Professor, Biology
- Professor, Biology
- Member, Wu Tsai Neurosciences Institute

PROGRAM AFFILIATIONS

- Symbolic Systems Program

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Neurobiology, signal transduction

Teaching

COURSES

2026-27

- Marine Animal Physiology: BIO 162H, BIO 262H, OCEANS 162H, OCEANS 262H (Spr)
- Sensory Ecology of Marine Animals: BIO 12N, OCEANS 12N (Aut)

2025-26

- Sensory Ecology of Marine Animals: BIO 12N, OCEANS 12N (Aut)

2024-25

- Sensory Ecology of Marine Animals: BIO 12N, OCEANS 12N (Aut)

2023-24

- Sensory Ecology of Marine Animals: BIO 12N, OCEANS 12N (Aut)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (PhD Program)

Publications

PUBLICATIONS

- **Temperature effects on low-light vision in juvenile rockfish (Genus Sebastes) and consequences for habitat utilization** *JOURNAL OF COMPARATIVE PHYSIOLOGY A-NEUROETHOLOGY SENSORY NEURAL AND BEHAVIORAL PHYSIOLOGY*
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- **The spectral sensitivity of the lens eyes of a box jellyfish, Tripedalia cystophora (Conant)** *JOURNAL OF EXPERIMENTAL BIOLOGY*
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- **Central pattern generator for swimming in Melibe** *JOURNAL OF EXPERIMENTAL BIOLOGY*
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- **Some precautions in using chelators to buffer metals in biological solutions** *CELL CALCIUM*
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- **NO is necessary and sufficient for egg activation at fertilization** *NATURE*
  Kuo, R. K., Baxter, G. T., Thompson, S. H., Stricker, S. A., Patton, C., Bonaventura, J., Epel, D.
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- **Cholinergic modulation of the Ca2+ response to bradykinin in neuroblastoma cells** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*
  Coggan, J. S., Thompson, S. H.
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- **Cyclic GMP-gated channels in a sympathetic neuron cell line** *JOURNAL OF GENERAL PHYSIOLOGY*
  Thompson, S. H.
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- **Activation of the nitric oxide cGMP pathway is required for refilling intracellular Ca2+ stores in a sympathetic neuron cell line** *CELL CALCIUM*
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- **The nitric oxide/cGMP pathway couples muscarinic receptors to the activation of Ca2+ influx** *JOURNAL OF NEUROSCIENCE*
  Mathes, C., Thompson, S. H.
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- **THE RELATIONSHIP BETWEEN DEPLETION OF INTRACELLULAR CA2+ STORES AND ACTIVATION OF CA2+ CURRENT BY MUSCARINIC RECEPTORS IN NEUROBLASTOMA-CELLS** *JOURNAL OF GENERAL PHYSIOLOGY*
  Mathes, C., Thompson, S. H.
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- **Local positive feedback by calcium in the propagation of intracellular calcium waves** *BIOPHYSICAL JOURNAL*
  Wang, S. S., Thompson, S. H.
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- **INTRACELLULAR CALCIUM SIGNALS IN RESPONSE TO BRADYKININ IN INDIVIDUAL NEUROBLASTOMA-CELLS** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*
  Coggan, J. S., Thompson, S. H.
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- **CALCIUM REQUIREMENT FOR CGMP PRODUCTION DURING MUSCARINIC ACTIVATION OF N1E-115 NEUROBLASTOMA-CELLS** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*
  Thompson, S. H., Mathes, C., Alousi, A. A.

1995; 269 (4): C979-C985

- **THE LIFETIME OF INOSITOL 1,4,5-TRISPHOSPHATE IN SINGLE CELLS** *JOURNAL OF GENERAL PHYSIOLOGY*
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- **MEMBRANE TOXICITY OF THE PROTEIN-KINASE-C INHIBITOR CALPHOSTIN-A BY A FREE-RADICAL MECHANISM** *NEUROSCIENCE LETTERS*
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- **A-TYPE POTASSIUM CHANNEL CLUSTERS REVEALED USING A NEW STATISTICAL-ANALYSIS OF LOOSE PATCH DATA** *BIOPHYSICAL JOURNAL*
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- **MEASUREMENT OF NONUNIFORM CURRENT DENSITIES AND CURRENT KINETICS IN APLYSIA NEURONS USING A LARGE PATCH METHOD** *BIOPHYSICAL JOURNAL*
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