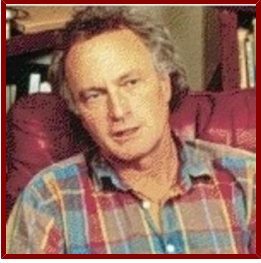


Stanford



Stuart Thompson

Professor of Biology (Hopkins Marine Station)

Bio

ACADEMIC APPOINTMENTS

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

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Neurobiology, signal transduction

Teaching

COURSES

2021-22

- Frontiers in Marine Biology: BIO 3 (Aut)
- Sensory Ecology of Marine Animals: BIO 12N (Aut)

2020-21

- Frontiers in Marine Biology: BIO 3 (Aut, Spr)
- Sensory Ecology of Marine Animals: BIO 12N (Aut)

2019-20

- Frontiers in Marine Biology: BIO 3 (Aut)
- Sensory Ecology of Marine Animals: BIO 12N (Aut)

2018-19

- From Play to Innovation: ENGR 280 (Spr)
- Frontiers in Marine Biology: BIO 3 (Aut)
- Natural History, Marine Biology, and Research: BIO 10SC (Sum)
- Sensory Ecology of Marine Animals: BIO 12N (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Shirel Kahane-Rapport

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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2006; 209 (19): 3758-3765
- **Central pattern generator for swimming in *Melibe*** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Thompson, S., Watson, W. H.
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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.
1997; 273 (2): C612-C617
- **Cyclic GMP-gated channels in a sympathetic neuron cell line** *JOURNAL OF GENERAL PHYSIOLOGY*
Thompson, S. H.
1997; 110 (2): 155-164
- **Activation of the nitric oxide cGMP pathway is required for refilling intracellular Ca²⁺ stores in a sympathetic neuron cell line** *CELL CALCIUM*
Harrington, M. A., Thompson, S. H.
1996; 19 (5): 399-407
- **The nitric oxide/cGMP pathway couples muscarinic receptors to the activation of Ca²⁺ influx** *JOURNAL OF NEUROSCIENCE*
Mathes, C., Thompson, S. H.
1996; 16 (5): 1702-1709
- **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.
1995; 106 (5): 975-993
- **Local positive feedback by calcium in the propagation of intracellular calcium waves** *BIOPHYSICAL JOURNAL*
Wang, S. S., Thompson, S. H.
1995; 69 (5): 1683-1697
- **INTRACELLULAR CALCIUM SIGNALS IN RESPONSE TO BRADYKININ IN INDIVIDUAL NEUROBLASTOMA-CELLS** *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*
Coggan, J. S., Thompson, S. H.
1995; 269 (4): C841-C848

- **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*
Wang, S. S., Alousi, A. A., Thompson, S. H.
1995; 105 (1): 149-171
- **FACILITATION OF CALCIUM-DEPENDENT POTASSIUM CURRENT** *JOURNAL OF NEUROSCIENCE*
Thompson, S. H.
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- **CALCIUM CURRENT ACTIVATED BY MUSCARINIC RECEPTORS AND THAPSIGARGIN IN NEURONAL CELLS** *JOURNAL OF GENERAL PHYSIOLOGY*
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- **THE AMINOGLYCOSIDE G418 SUPPRESSES MUSCARINIC RECEPTOR-ACTIVATED CALCIUM-RELEASE IN STABLY TRANSFECTED MURINE N1E-115 NEUROBLASTOMA-CELLS** *NEUROSCIENCE LETTERS*
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- **MEMBRANE TOXICITY OF THE PROTEIN-KINASE-C INHIBITOR CALPHOSTIN-A BY A FREE-RADICAL MECHANISM** *NEUROSCIENCE LETTERS*
Wang, S. S., Mathes, C., Thompson, S. H.
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- **MEMBRANE TOXICITY OF THE PROTEIN-KINASE-C INHIBITOR CALPHOSTIN-A BY A FREE-RADICAL MECHANISM** *NEUROSCIENCE LETTERS*
Wang, S. S., Mathes, C., Thompson, S. H.
1993; 156 (1-2): 145-148
- **A-TYPE POTASSIUM CHANNEL CLUSTERS REVEALED USING A NEW STATISTICAL-ANALYSIS OF LOOSE PATCH DATA** *BIOPHYSICAL JOURNAL*
Wang, S. S., Thompson, S.
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- **INTRACELLULAR CALCIUM RELEASE IN N1E-115 NEUROBLASTOMA-CELLS IS MEDIATED BY THE M1 MUSCARINIC RECEPTOR SUBTYPE AND IS ANTAGONIZED BY MCN-A-343** *BRAIN RESEARCH*
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Premack, B. A., Thompson, S., COOMBSHAHN, J.
1989; 9 (11): 4089-4099
- **MEASUREMENT OF NONUNIFORM CURRENT DENSITIES AND CURRENT KINETICS IN APLYSIA NEURONS USING A LARGE PATCH METHOD** *BIOPHYSICAL JOURNAL*
Johnson, J. W., Thompson, S.
1989; 55 (2): 299-308
- **INWARD RECTIFICATION IN RESPONSE TO FMRFAMIDE IN APLYSIA NEURON-L2 - SUMMATION WITH TRANSIENT K-CURRENT** *JOURNAL OF NEUROSCIENCE*
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- **SPATIAL-DISTRIBUTION OF CA CURRENTS IN MOLLUSCAN NEURON CELL-BODIES AND REGIONAL DIFFERENCES IN THE STRENGTH OF INACTIVATION** *JOURNAL OF NEUROSCIENCE*
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