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[Giving To Psychology](#)

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[Faculty](#)

[PhD](#)

[Students](#)

[Lecturers](#)

[&](#)

[Research](#)

[Staff](#)

[Administrative
staff](#)

[Postdoctoral
Scholars](#)

[Research
Topics](#)

Department Areas

[Affective
Science](#)

[Cognitive](#)

[Developmental](#)

[Social](#)

[Neuroscience](#)

Academic Programs

[Undergraduate](#)

[Graduate](#)

[Talks,](#)

Colloquia,
Events

Department
History

How our
research
is
changing
the world

Resources

[Home](#) » [Faculty](#) » [Wine, Jeffrey](#)

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[Back to faculty gallery](#)

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Jeffrey Wine

Benjamin Scott Crocker
Professor in Human
Biology
Professor of
Psychology,
Neurosciences and (by
courtesy) Pediatrics

Director, Cystic Fibrosis Research
Laboratory

[Personal/Lab Website](#) |

Primary Area: Neuroscience

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Research Topics: neuroscience
approaches,

Research Summary

The goal is to understand how a defective ion channel leads to the human genetic disease cystic fibrosis. Studies of ion channels and ion transport involved in gland fluid transport. Methods include SSCP mutation detection and DNA sequencing, protein analysis, patch-clamp recording, ion-selective microelectrodes, electrophysiological analyses of transmembrane ion flows, isotopic methods, DIC (Nomarski) and fluorescence microscopy, optical methods for analysis of fluid secretion by cultured human cells and from intact human tissues obtained after surgery.

Education

Ph.D. Physiological Psychology, University of California Los Angeles, 1971

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