

[ScienceWatch Home](#)[Inside This Month...](#)[Interviews](#)[Featured Interviews](#)[Author Commentaries](#)[Institutional Interviews](#)[Journal Interviews](#)[Podcasts](#)[Analyses](#)[Featured Analyses](#)[What's Hot In...](#)[Special Topics](#)[Data & Rankings](#)[Sci-Bytes](#)[Fast Breaking Papers](#)[New Hot Papers](#)[Emerging Research Fronts](#)[Fast Moving Fronts](#)[Corporate Research Fronts](#)[Research Front Maps](#)[Current Classics](#)[Top Topics](#)[Rising Stars](#)[New Entrants](#)[Country Profiles](#)[About Science Watch](#)[Methodology](#)[Archives](#)[Contact Us](#)[RSS Feeds](#)

scienceWATCH[®].com

TRACKING TRENDS & PERFORMANCE IN BASIC RESEARCH

[Interviews](#)[Analyses](#)[Data & Rankings](#)

2009 : June 2009 - Fast Breaking Papers : Paul A. Insel

FAST BREAKING PAPERS - 2009

June 2009



Paul A. Insel talks with *ScienceWatch.com* and answers a few questions about this month's Fast Breaking Paper in the field of Pharmacology & Toxicology.

[+enlarge](#)

Article Title: Caveolae as organizers of pharmacologically relevant signal transduction molecules

Authors: Patel, HH;Murray, F;Insel, PA

Journal: ANNU REV PHARMACOL TOXICOL

Volume: 48

Issue:

Page: :359-391

Year: 2008

* Univ Calif San Diego, Dept Anesthesia, La Jolla, CA 92093 USA.

* Univ Calif San Diego, Dept Anesthesia, La Jolla, CA 92093 USA.

* Univ Calif San Diego, Dept Pharmacol, La Jolla, CA 92093 USA.

* Univ Calif San Diego, Dept Med, La Jolla, CA 92093 USA.

SW: Why do you think your paper is highly cited?

This review article is a general one that addresses a broad topic: compartmentation in the cellular plasma membrane of signal transduction molecules, which is of considerable current interest to investigators in many different specific research areas.

SW: Would you summarize the significance of your paper in layman's terms?

In the article, my colleagues and I summarize findings for a wide variety of hormone/drug receptor systems. The recognition that cells have what are akin to "signaling factories," some of which are located in lipid/membrane rafts and caveolae (rafts that contain the protein caveolin), has been found in many cell types and contributes to normal function and disease, in particular in the cardiovascular system, which we emphasize in this review article.

SW: Where do you see your research leading in the future?

Future work will likely help define the precise molecular mechanisms for localization, entry and exit of signaling molecules in rafts/caveolae and whether regulation of such localization can be exploited as a therapeutic target.

Paul A. Insel, M.D.

Professor of Pharmacology and Medicine


Vice-Chair, Department of Pharmacology

University of California San Diego, School of Medicine

La Jolla, CA, USA

KEYWORDS: SIGNALING MOLECULES; CAVEOLIN; MYOCARDIAL ISCHEMIA; PULMONARY HYPERTENSION.

 PDF

[back to top](#) 

2009 : June 2009 - Fast Breaking Papers : Paul A. Insel

[Scientific Home](#) | [About Scientific](#) | [Site Search](#) | [Site Map](#)

[Copyright Notices](#) | [Terms of Use](#) | [Privacy Statement](#)