


Cytoplasmic penetration and persistent infection of mammalian cells by polyglutamine aggregates.
Nat Cell Biol. 11: 219-225.  PMID: 19151706

Integrin alpha(v)beta(3) on human endothelial cells binds von Willebrand factor strings under fluid shear stress.
Blood. 113:1589-1597.   PMID: 18927433

Martens EC, Roth R, Heuser JE, & JI Gordon (2009)
Coordinate regulation of glycan degradation and polysaccharide capsule biosynthesis by a prominent human gut symbiont.
J Biol Chem. 284:18445-18457.  PMID: 19403529

Contribution of autolysin and Sortase a during Enterococcus faecalis DNA-dependent biofilm development.
Infect Immun. 77:3626-38. PMID: 19528211

Molecularly targeted nanocarriers deliver the cytolytic peptide melittin specifically to tumor cells in mice, reducing tumor growth.
J Clin Invest. 119:2830-2842.   PMID: 19726870

Brady RJ, Damer CK, Heuser JE, O'Halloran TJ. (2010)
Regulation of Hip1r by epsin controls the temporal and spatial coupling of actin filaments to clathrin-coated pits.
J Cell Sci. 123: 3652-3661  PMCID: PMC2964106  PMID: 20923836

Streptolysin O clearance via sequestration into blebs that bud passively from the plasma membrane
J Cell Sci. 124: 2414-2423.   PMCID: PMC3124372  PMID: 21693578
Formation of Uropathogenic E. coli Pellicle Biofilm Involves Clonal Expansion and Extensive Fiber Formation.
J Bacteriol. 341: 348-356  PMID: 34606189

T cell receptor internalization from the immunological synapse is mediated by TC21 and RhoG GTPase-dependent phagocytosis.
Immunity. 35: 208-222  PMID: 21820331

The holo-apoptosome: activation of procaspase-9 and interactions with caspase-3
Structure. 19: 1084-1096.  PMCID: PMC3155825   PMID: 21827945

Heuser JE. (2011)
The origins and evolution of freeze-etch electron microscopy.
J Electron Microsc. 60 Suppl 1:S3-29. PMCID: PMC3202940   PMID: 21844598

Eisosome proteins assemble into a membrane scaffold.

Utilization of photoinduced charge-separated state of donor-acceptor-linked molecules for regulation of cell membrane potential and ion transport.
J Am Chem Soc. 134:6092-6095.  PMID: 22449129
The control of ion transport across cell membranes by light is an attractive strategy that allows targeted, fast control of precisely defined events in the biological membrane. Here we report a novel general strategy for the control of membrane potential and ion transport by using charge-separation molecules and light. Delivery of charge-separation molecules to the plasma membrane of PC12 cells by a membranous nanocarrier and subsequent light irradiation led to depolarization of the membrane potential as well as inhibition of the potassium ion flow across the membrane. Photoregulation of the cell membrane potential and ion transport by using charge-separation molecules is highly promising for control of cell functions.
Stathmin regulates microtubule dynamics and microtubule organizing center
polarization in activated T cells.
J Immunol. 188:5421-5427. PMCID: PMC3358357 PMID: 22529300

Tanaka T, Takahashi K, Yamane M, Tomida S, Nakamura S, Oshima K, Niwa A,
Nishikomori R, Kambe N, Hara H, Mitsuyama M, Morone N, Heuser JE, Yamamoto T,
Watanabe A, Sato-Otsubo A, Ogawa S, Asaka I, Heike T, Yamanaka S, Nakahata T,
Saito MK. (2012)
Induced pluripotent stem cells from CINCA syndrome patients as a model for
dissecting somatic mosaicism and drug discovery.
Blood. 120:1299-1308. PMID: 22723549

Minami I, Yamada K, Otsuji TG, Yamamoto T, Shen Y, Otsuka S, Kadota S, Morone N,
A small molecule that promotes cardiac differentiation of human pluripotent stem
cells under defined, cytokine- and xeno-free conditions.

Development of a reentrant arrhythmia model in human pluripotent stem
cell-derived cardiac cell sheets.
Eur Heart J. 34:1147-1156. PMID: 23201623

Heuser J. (2012)
John Heuser: capture the moment. Interview by Caitlin Sedwick.
J Cell Biol. 199: 868-869 PMCID: PMC3518215 PMID: 23229894

Exosomes: looking back three decades and into the future.