References: Plant Membrane Transport & Integrating transport with plant growth, development and adaptation.

Jan 30, 2006, Sze (Adv Plant Dev Physiol)

*, Worth reading
**, classic or first paper of its kind

I. Pumps

a. H+-pumps : P-type and V-type

PM H+-ATPase


V-ATPase


H+-PPase


b. Ca-pumps: P-type


c. ABC transporters


II. Cotransporters & their role in plant physiology

a. sugars, amino acids


Research papers


b. Ions- H+-coupled Ca and Na


III. Ion Channels

**HEDRICH R, SCHROEDER JI**  THE PHYSIOLOGY OF ION CHANNELS AND ELECTROGENIC PUMPS IN HIGHER-PLANTS  ANNUAL REVIEW OF PLANT PHYSIOLOGY AND PLANT MOLECULAR BIOLOGY 40: 539-569 1989


Research papers


Calcium

Reviews


Hepler PK  Calcium: A central regulator of plant growth and development.  PLANT CELL 17 (8): 2142-2155 AUG 2005


Research papers

**Furuichi T, Cunningham KW, Muto S.  A putative two pore channel AtTPC1 mediates Ca(2+) flux in Arabidopsis leaf cells.  Plant Cell Physiol. 2001 Sep;42(9):900-5.


IV. Auxin Transport  [lots of recent papers]


V. Salt tolerance


VI. Guard Cell Movement


*Roelfsema MRG, Hedrich R In the light of stomatal opening: new insights into 'the Watergate'
NEW PHYTOLIGIST 167 (3): 665-691 SEP 2005


