

SUBJECT INDEX

Acholeplasma laidlawii

Weak association of glucosamine-containing polymer with the — membrane (Terry, Zupnik) (291) 144

Agglutinin receptor

Isolation and characterization of — sites. II. Isolation and partial purification of a surface membrane receptor for wheat germ agglutinin (Janson, Burger) (291) 127

Agglutinin receptor

Isolation and characterization of — sites. III. Studies on the interaction with other lectins (Janson et al.) (291) 136

Amino acid

Molecular weight, — composition and other properties of membrane-bound ATPase from *Bacillus megaterium* KM (Mirsky, Barlow) (291) 480

Amino acid accumulation

— in frog muscle. I. Steady-state glycine accumulation at 0 °C (Neville) (291) 287

Amino acid transport

Regulation of — in chick embryo heart cells. II. Adaptive control sites for the "A mediation" (Franchi-Gazzola et al.) (291) 545

Anaesthetic

Pressure reversal of inhalation — induced disorder in spin-labeled phospholipid vesicles (Trudell et al.) (291) 328

Anaesthetics

Effect of two inhalation — on the order of spin-labeled phospholipid vesicles (Trudell et al.) (291) 321

ATP

Binding of — to and release from microsomal ($\text{Na}^+ + \text{K}^+$)-ATPase (Brodsky, Shamoo) (291) 208

ATPase

Allosteric transitions and membrane-bound — from rat tissues: The effect of fat deprivation on the allosteric inhibition by fluoride (Goldemberg et al.) (291) 489

ATPase

Molecular weight, amino acid composition and other properties of membrane-bound — from *Bacillus megaterium* KM (Mirsky, Barlow) (291) 480

ATPase

Subcellular distribution and characterization of — activity in pig platelets (Harris, Crawford) (291) 720

Betaine efflux

— from rat-liver mitochondria, a possible regulating step in choline oxidation (de Ridder, van Dam) (291) 557

Bile acids

Different effects of free and conjugated — and their keto derivatives on (Na^+ , K^+)-stimulated and Mg^{2+} -ATPase of rat intestinal mucosa (Hepner, Hofmann) (291) 237

Bilayer lipid membrane

— as a model for vasopressin, prostaglandin and Ca^{2+} effects on water permeability (Graziani, Livne) (291) 612

Bilayer membranes

Electrical polarization of phosphatidylserine — by calcium ions (Wobschall, Ohki) (291) 363

Bilayers

Effect of colloidal silicic acid on lecithin — (Körösy, Taboch) (291) 608

Bilayers

Interaction of paramagnetic ions and spin labels with lecithin — (Levine et al.) (291) 592

Bilirubin uptake

— in vitro by the rat intestinal mucosa (Corchs et al.) (291) 308

Brush border

Effects of cycloheximide on influx across the — of rabbit small intestine (Frizzell et al.) (291) 302

Calcium ion

Bilayer lipid membrane as a model for vasopressin, prostaglandin and — effects on water permeability (Graziani, Livne) (291) 612

Calcium ions

Electrical polarization of phosphatidylserine bilayer membranes by — (Wobschall, Ohki) (291) 363

Calcium transport

— in intact Ehrlich ascites tumour cells (Cittadini et al.) (291) 246

Catalase

Membrane fractions from rat hepatoma. III. Immunochemical characterization of detergent-soluble membrane phosphatases, electron transport chains and — (Rafteil, Blomberg) (291) 442

Cell walls

The alanine ester content and magnesium

- binding capacity of — of *Staphylococcus aureus* H grown at different pH values (Archibald et al.) (291) 629
- Cells**
Binding of exogenously added neuraminidase to — and tissues in culture (McQuiddy, Lilien) (291) 774
- Cells**
Isopeptide bonds in membrane proteins from eukaryotic — (Birckbichler et al.) (291) 149
- Chloride**
Kinetic characterization of the — dependence of sodium transport in the frog skin (Ferreira et al.) (291) 269
- Cholesterol**
Filipin as a fluorescent probe for the location of — in the membranes of fragmented sarcoplasmic reticulum (Drabikowski et al.) (291) 61
- Cholesterol**
Influence of lecithin structure on their monolayer behaviour and interactions with — (Ghosh et al.) (291) 351
- Choline**
Betaine efflux from rat liver mitochondria, a possible regulating step in — oxidation (de Ridder, van Dam) (291) 557
- Choline uptake**
— systems of rat brain synaptosomes (Haga, Noda) (291) 564
- Copper**
Studies on the interaction of chick brain microsomal ($\text{Na}^+ + \text{K}^+$)-ATPase with — (Ting-Beall et al.) (291) 229
- Creatine kinase**
The localization of mitochondrial —, and its use for the determination of the sidedness of submitochondrial particles (Scholte et al.) (291) 764
- Cycloheximide**
Effects of — on influx across the brush border of rabbit small intestine (Frizzell et al.) (291) 302
- Dipalmitoyllecithin**
Time-dependent surface behaviour of — and lung alveolar surfactant monolayers (Munden, Swarbrick) (291) 344
- Endoplasmic reticulum**
Phospholipid metabolism of rat liver —. Structural analyses, turnover studies and enzymic activities (Lee, Snyder) (291) 71
- Electron transport chains**
Membrane fractions from rat hepatoma. III. Immunochemical characterization of detergent-soluble membrane phosphatases, — and catalase (Raftell, Blomberg) (291) 442
- Erythrocyte ghosts**
Glucose transport by trypsin-treated — (Carter et al.) (291) 506
- Erythrocyte membranes**
Effect of low levels of trypsin on — (Avruch et al.) (291) 494
- Erythrocyte membrane vesicles**
Asymmetric interaction of inside-out and right-side-out — with ouabain (Perrone, Blostein) (291) 680
- Erythrocytes**
Freeze-etch electron microscopy of —, *Acholeplasma laidlawii* cells and liposomal membranes after the action of filipin and amphotericin B (Demel et al.) (291) 577
- Erythrocytes**
Mediated transport of nucleosides in human —. Specificity toward purine nucleosides as permeants (Cass, Paterson) (291) 734
- Erythrocytes**
Metabolically controlled hemolysis of chicken — (Frish et al.) (291) 690
- Erythrocytes**
Some aspects of the osmotic lysis of —. I. A reexamination of the osmotic lysis method (Wessels et al.) (291) 165
- Erythrocytes**
Some aspects of the osmotic lysis of —. II. Differences in osmotic behaviour of erythrocytes after treatment with electrolyte and non-electrolyte solutions (Wessels, Veerkamp) (291) 178
- Erythrocytes**
Some aspects of the osmotic lysis of —. III. Comparison of glycerol permeability and lipid composition of red blood cell membranes from eight mammalian species (Wessels, Veerkamp) (291) 190
- Ethanol**
Effect of — on the amount and enzyme activities of hepatic rough and smooth microsomal membranes (Ishii et al.) (291) 411
- Fat**
Allosteric transitions and membrane-bound ATPase from rat tissues: The effect of — deprivation on the allosteric inhibition by fluoride (Goldemberg et al.) (291) 489
- Fatty acids**
A synthetic lecithin containing branched-chain —. Physical properties and membrane studies (Johnson et al.) (291) 587
- Fibroblasts**
Levels of membrane marker enzyme activity in normal and RNA and DNA virus-transformed — (Bosman) (291) 582

Filipin

— as a fluorescent probe for the location of cholesterol in the membranes of fragmented sarcoplasmic reticulum (Drabikowski et al.) (291) 61

Fluoride

Allosteric transitions and membrane-bound ATPase from rat tissues: The effect of fat deprivation on the allosteric inhibition by — (Goldemberg et al.) (291) 489

Fructose

Metabolism of — in the small intestine. I. The effect of fructose feeding on fructose transport and metabolism in rat small intestine (Mavrias, Mayer) (291) 531

Fructose transport

Metabolism of fructose in the small intestine. I. The effect of fructose feeding on — and metabolism in rat small intestine (Mavrias, Mayer) (291) 531

Fructose transport

Metabolism of fructose in the small intestine. II. The effect of fructose feeding on — and metabolism in guinea pig small intestine (Mavrias, Mayer) (291) 538

Gastric acid

Intramucosal — concentration determined by glass microelectrode technique (Winship, Cafilisch) (291) 280

Glucosamine

Weak association of —-containing polymer with the *Acholeplasma laidlawii* membrane (Terry, Zupnik) (291) 144

D-Glucose binding protein

Isolation of N-ethylmaleimide-labelled phlorizin-sensitive — of brush border membrane from rat kidney cortex (Thomas) (291) 454

Glucose transport

— by trypsin-treated erythrocyte ghosts (Carter et al.) (291) 506

Glycerol

Some aspects of the osmotic lysis of erythrocytes. III. Comparison of — permeability and lipid composition of red blood cell membranes from eight mammalian species (Wessels, Veerkamp) (291) 190

Glycine

Amino acid accumulation in frog muscle. I. Steady-state — accumulation at 0 °C (Neville) (291) 287

Glycerophosphate

Comparative inhibition studies of the phosphotransferase and — acylation systems in membrane vesicles of *Escherichia coli* (Négre et al.) (291) 635

Haemolysis

— induced by *Prymnesium parvum* toxin. Calorimetric studies (Binford et al.) (291) 156

Haemolysis

Metabolically controlled — of chicken erythrocytes (Frish et al.) (291) 690

HeLa cells

Effect of K⁺ on the membrane potential in — (Okada et al.) (291) 116

Insulin

— action. Accumulation in vitro of Mg²⁺ and K⁺ in rat uterus: ion pump activity (Lostroh, Krahl) (291) 260

Lecithin

Influence of — structure on their monolayer behaviour and interaction with cholesterol (Ghosh et al.) (291) 351

Lecithin

Synthetic — containing branched-chain fatty acids. Physical properties and membrane studies (Johnson et al.) (291) 587

Lecithin bilayers

Effect of colloidal silicic acid on — (Körösy, Taboch) (291) 608

Lecithin bilayers

Interaction of paramagnetic ions and spin labels with — (Levine et al.) (291) 592

Lectins

Isolation and characterization of agglutinin receptor sites. III. Studies on the interaction with other — (Janson et al.) (291) 136

Lipid

Preparation of mitochondrial membrane proteins from *Neurospora crassa*: Prevention of — autoxidation damage by an antioxidant (Minssen, Munkres) (291) 398

Lipid

Some aspects of the osmotic lysis of erythrocytes. III. Comparison of glycerol permeability and — composition of red blood cell membranes from eight mammalian species (Wessels, Veerkamp) (291) 190

Liposomes

Binding and aggregate formation of phospholipid — containing phosphatidic acid with ovalbumin (Oshima, Nagasawa) (291) 1

Lymphocytes

Subcellular fractionation of human —. Isolation of two plasma membrane fractions and comparison of the protein components of the various lymphocytic organelles (Demus) (291) 93

Lymphocytes

Surface properties of human — (Vassar et al.) (291) 107

Lysine auxotroph

Peptide utilization in yeast: Studies on

- methionine and — of *Saccharomyces cerevisiae* (Becker et al.) (291) 388
- Magnesium-ATPase**
Different effects of free and conjugated bile acids and their keto derivatives on (Na^+ , K^+)-stimulated and — of rat intestinal mucosa (Hepner, Hofmann) (291) 237
- Magnesium binding**
The alanine ester content and — capacity of cell walls of *Staphylococcus aureus* H grown at different pH values (Archibald et al.) (291) 629
- Magnesium ion**
Insulin action. Accumulation in vitro of — and K^+ in rat uterus: ion pump activity (Lostroh, Krah) (291) 260
- Melittin**
Interaction of a lytic peptide, —, with spin-labelled membranes (Hegner et al.) (291) 15
- Membrane**
Antibodies to pig kidney (Na^+ + K^+)-ATPase inhibit the sodium pump in human red cells provided they have access to the inner surface of the cell (Jørgensen et al.) (291) 795
- Membrane**
Asymmetric interaction of inside-out and right-side-out erythrocyte — vesicles with ouabain (Perrone, Blostein) (291) 680
- Membrane**
Bilayer lipid — as a model for vasopressin, prostaglandin and Ca^{2+} effects on water permeability (Graziani, Livne) (291) 612
- Membrane**
Effect of K^+ on the — potential in HeLa cells (Okada et al.) (291) 116
- Membrane**
Isolation and characterization of agglutinin receptor sites. II. Isolation and partial purification of a surface — receptor for wheat germ agglutinin (Janson, Burger) (291) 127
- Membrane**
Isolation of N-ethylmaleimide-labelled phlorizin-sensitive D-glucose binding protein of brush border — from rat kidney cortex (Thomas) (291) 454
- Membrane**
— component of the cellular slime mould *Dictyostelium discoideum*, rapidly labelled with [^{32}P]orthophosphate (Hammond) (291) 371
- Membrane**
— fractions from rat hepatoma. II. Immunochemical characterization of detergent-soluble membrane esterases, glycosidases and leucyl- β -naphthylamidase (Blomberg, Raftell) (291) 431
- Membrane**
— fractions from rat hepatoma. I. Isolation and characterization (Raftell, Blomberg) (291) 421
- Membrane**
Plasma — fragments in bovine and caprine skim milks (Plantz, Patton) (291) 51
- Membrane**
Subcellular fractionation of human lymphocytes. Isolation of two plasma — fractions and comparison of the protein components of the various lymphocytic organelles (Demus) (291) 93
- Membrane**
Synthetic lecithin containing branched-chain fatty acids. Physical properties and — studies (Johnson et al.) (291) 587
- Membrane marker enzyme**
Levels of — activity in normal and RNA and DNA virus-transformed fibroblasts (Bosman) (291) 582
- Membranes**
Effect of ethanol on the amount and enzyme activities of hepatic rough and smooth microsomal — (Ishii et al.) (291) 411
- Membranes**
Effect of low levels of trypsin on erythrocyte — (Avruch et al.) (291) 494
- Membranes**
Effects of freezing on biological — in vivo and in vitro (Heber et al.) (291) 23
- Membranes**
Electrical polarization of phosphatidylserine bilayer — by calcium ions (Wobischall, Ohki) (291) 363
- Membranes**
Enzyme activities in — from three phenotypes of the murine plasmocytoma MOPC 173, cultivated in vitro (Lelièvre, Paraf) (291) 671
- Membranes**
Filipin as a fluorescent probe for the location of cholesterol in the — of fragmented sarcoplasmic reticulum (Drabikowski et al.) (291) 61
- Membranes**
Freeze-etch electron microscopy of erythrocytes, *Acholeplasma laidlawii* cells and liposomal — after the action of filipin and amphotericin B (Demel et al.) (291) 577
- Membranes**
Freezing: The effect of eutectic crystallization on biological — (Santarius) (291) 38
- Membranes**

- Interaction of a lytic peptide, melittin, with spin-labeled — (Hegner et al.) (291) 15
- Membranes
 - Isolation of pig platelet — and granules. Distribution and validity of marker enzymes (Harris, Crawford) (291) 701
- Membranes
 - of Tetrahymena. II. Direct visualization transitions in biomembrane structure induced by temperature (Speth, Wunderlich) (291) 621
- Membranes
 - Plasma — from fibroblastic cells in culture. Isolation, morphological and enzymatic identification (Lelièvre) (291) 662
- Membranes
 - Plasma — of bovine circumvallate papillae. Isolation and partial characterization (Lo) (291) 650
- Membranes
 - Turnover of rat liver plasma membrane. Comparison with microsomal membranes (Lee et al.) (291) 86
- Membrane-bound ATPase
 - Allosteric transitions and — from rat tissues: the effect of fat deprivation on the allosteric inhibition by fluoride (Goldemberg et al.) (291) 489
- Membrane-bound ATPase
 - Molecular weight, amino acid composition and other properties of — from *Bacillus megaterium* KM (Mirsky, Barlow) (291) 480
- Membrane proteins
 - Isopeptide bonds in — from eukaryotic cells (Birckbichler et al.) (291) 149
- Membrane proteins
 - Preparation of mitochondrial — from *Neurospora crassa*: Prevention of lipid autoxidation damage by an antioxidant (Minssen, Munkres) (291) 398
- Membrane vesicles
 - Comparative inhibition studies of the phosphotransferase and glycerophosphate acylation systems in — of *Escherichia coli* (Negrel et al.) (291) 635
- Membrane vesicles
 - On the preparation and some properties of closed — from hog duodenal and jejunal brush border (Louvard et al.) (291) 747
- Methionine
 - Peptide utilization in yeast: Studies on — and lysine auxotrophs of *Saccharomyces cerevisiae* (Becker et al.) (291) 388
- Methionine auxotroph
 - Peptide utilization in yeast: Studies on lysine and — of *Saccharomyces cerevisiae* (Becker et al.) (291) 388
- α -Methyl-D-glucoside transport
 - Developmental and other characteristics of — by rat kidney cortex slices (Segal et al.) (291) 519
- Microsomal membranes
 - Effect of ethanol on the amount and enzyme activities of hepatic rough and smooth — (Ishii et al.) (291) 411
- Microsomal membranes
 - Turnover of rat liver plasma membrane: comparison with — (Lee et al.) (291) 86
- Microsomal sodium, potassium-ATPase
 - Binding of ATP to and release from — (Brodsky, Shamoo) (291) 208
- Microsomal sodium, potassium-ATPase
 - Studies on the interaction of chick brain — with copper (Ting-Beall et al.) (291) 229
- Microsome
 - Appendix. Simulation of — sedimentation (Breillat) (291) 83
- Mitochondria
 - Betaine efflux from rat-liver —, a possible regulating step in choline oxidation (de Ridder, van Dam) (291) 557
- Mitochondrial membrane proteins
 - Preparation of — from *Neurospora crassa*: Prevention of lipid autoxidation damage by an antioxidant (Minssen, Munkres) (291) 398
- Monolayer
 - Influence of lecithin structure on their — behaviour and interactions with cholesterol (Ghosh et al.) (291) 351
- Monolayers
 - Surface properties of synthetic phospholipids. II. Thermal phase transitions in — (Hayashi et al.) (291) 335
- Monolayers
 - Time-dependent surface behaviour of dipalmitoyllecithin and lung alveolar surfactant — (Munden, Swarbrick) (291) 344
- Neuraminidase
 - Binding of exogenously added — to cells and tissues in culture (McQuiddy, Lilien) (291) 774
- Nucleoside transport
 - Mediated — in human erythrocytes. Specificity toward purine nucleosides as permeants (Cass, Paterson) (291) 734
- Osmotic lysis
 - Some aspects of the — of erythrocytes I. A reexamination of the osmotic lysis method (Wessels et al.) (291) 165
- Osmotic lysis
 - Some aspects of the — of erythrocytes. III. Comparison of glycerol permeability

- and lipid composition of red blood cell membranes from eight mammalian species (Wessels, Veerkamp) (291) 190
- Osmotic lysis
Some aspects of the — of erythrocytes. II. Differences in osmotic behaviour or erythrocytes after treatment with electrolyte and non-electrolyte solutions (Wessels, Veerkamp) (291) 178
- Ouabain
Asymmetric interaction of inside-out and right-side-out erythrocyte membrane vesicles with — (Perrone, Blostein) (291) 680
- Ovalbumin
Binding and aggregate formation of phospholipid liposomes containing phosphatidic acid with — (Oshima, Nagasawa) (291) 1
- Peptide
Interaction of a lytic —, melittin, with spin-labelled membranes (Hegner et al.) (291) 15
- Peptide
— utilization in yeast: Studies on methionine and lysine auxotrophs of *Saccharomyces cerevisiae* (Becker et al.) (291) 388
- Phosphatases
Membrane fractions from rat hepatoma. III. Immunochemical characterization of detergent-soluble membrane —, electron transport chains and catalase (Raftell, Blomberg) (291) 442
- Phosphatidylserine bilayer membranes
Electrical polarization of — by Ca^{2+} (Wobschall, Ohki) (291) 363
- Phospholipid
Effect of two inhalation anaesthetics on the order of spin-labelled — vesicles (Trudell et al.) (291) 321
- Phospholipid
— metabolism in rat liver endoplasmic reticulum: Structural analyses, turnover studies and enzymic activities (Lee, Snyder) (291) 71
- Phospholipid
Pressure reversal of inhalation anaesthetic-induced disorder in spin-labelled — vesicles (Trudell et al.) (291) 328
- Phospholipids
Surface properties of synthetic —. II. Thermal phase transitions in monolayers (Hayashi et al.) (291) 335
- Phospholipids
Turnover of rat liver plasma membrane —. Comparison with microsomal membranes (Lee et al.) (291) 86
- Phospholipid liposomes
Binding and aggregate formation — containing phosphatidic acid with ovalbumin (Oshima, Nagasawa) (291) 1
- Phosphotransferase
Comparative inhibition studies of the — and glycerophosphate acylation systems in membrane vesicles of *Escherichia coli* (Négrel et al.) (291) 635
- Plasma membrane
Subcellular fractionation of human lymphocytes. Isolation of two — fractions and comparison of the protein components of the various lymphocytic organelles (Demus) (291) 93
- Plasma membrane
— fragments in bovine and caprine skim milks (Plantz, Patton) (291) 51
- Plasma membrane
Turnover of rat liver —. Comparison with microsomal membranes (Lee et al.) (291) 86
- Plasma membranes
— from fibroblastic cells in culture. Isolation, morphological and enzymatic identification (Lelièvre) (291) 662
- Plasma membranes
— of bovine circumvallate papillae. Isolation and partial characterization (Lo) (291) 650
- Plasmocytoma
Enzyme activities in membranes from three phenotypes of the murine — MOPC 173, cultivated in vitro (Lelièvre, Paraf) (291) 671
- Platelets
Subcellular distribution and characterisation of ATPase activity in pig — (Harris, Crawford) (291) 720
- Platelet membranes
Isolation of pig — and granules. Distribution and validity of marker enzymes (Harris, Crawford) (291) 701
- Potassium ion
Effect of — on the membrane potential in HeLa cells (Okada et al.) (291) 116
- Potassium ion
Insulin action. Accumulation in vitro of Mg^{2+} and — in rat uterus: ion pump activity (Lostroh, Krah) (291) 260
- Prostaglandin
Bilayer lipid membrane as a model for vasopressin, — and Ca^{2+} effects on water permeability (Graziani, Livne) (291) 612
- Protein
Isolation of N-ethylmaleimide-labelled phlorizin-sensitive D-glucose binding — of brush border membrane from rat kidney cortex (Thomas) (291) 454
- Proteins
Preparation of mitochondrial membrane

- from *Neurospora crassa*: Prevention of lipid autoxidation damage by an antioxidant (Minssen, Munkres) (291) 398
- Protein**
 - Subcellular fractionation of human lymphocytes. Isolation of two plasma membrane fractions and comparison of the — components of the various lymphocytic organelles (Demus) (291) 93
- Purine**
 - Mediated transport of nucleosides in human erythrocytes. Specificity toward — nucleosides as permeants (Cass, Paterson) (291) 734
- Rubidium ion uptake**
 - Activation of — and Na^+ uptake into yeast by monovalent cations (Borst-Pauwels et al.) (291) 274
- Sarcoplasmic reticulum**
 - Filipin as a fluorescent probe for the location of cholesterol in the membranes of fragmented — (Drabikowski et al.) (291) 61
- Silicic acid**
 - Effect of colloidal — on lecithin bilayers (Körösy, Taboch) (291) 608
- Sodium ion uptake**
 - Activation of Rb^+ and — into yeast by monovalent cations (Borst-Pauwels et al.) (291) 274
- Sodium pool**
 - and Na^+ concentration in epidermis of frog skin (Smith et al.) (291) 465
- Sodium, potassium-ATPase**
 - Antibodies to pig kidney — inhibit the sodium pump in human red cells provided they have access to the inner surface of the cell membrane (Jørgensen et al.) (291) 795
- Sodium, potassium-ATPase**
 - Binding of ATP to and release from microsomal — (Brodsky, Shamoo) (291) 208
- Sodium, potassium-stimulated ATPase**
 - Different effects of free and conjugated bile acids and their keto derivatives on — and Mg^{2+} -ATPase of rat intestinal mucosa (Hepner, Hofmann) (291) 237
- Sodium, potassium-ATPase**
 - Studies on the interaction of chick brain microsomal — with copper (Ting-Beall et al.) (291) 229
- Sodium pump**
 - Antibodies to pig kidney ($\text{Na}^+ + \text{K}^+$)-ATPase inhibit the — in human red cells provided they have access to the inner surface of the cell membrane (Jørgensen et al.) (291) 795
- Sodium transport**
 - Kinetic characterization of the chloride dependence of — in the frog skin (Ferreira et al.) (291) 269
- Synaptosomes**
 - Choline uptake systems of rat brain — (Haga, Noda) (291) 564
- Transmembrane channel**
 - Synthetic — (Goodall, Urry) (291) 317
- Trypsin**
 - Effect of low levels of — on erythrocyte membranes (Avruch et al.) (291) 494
- Tumour cells**
 - Calcium transport in intact Ehrlich ascites — (Cittadini et al.) (291) 246
- Vasopressin**
 - Bilayer lipid membrane as a model for —, prostaglandin and Ca^{2+} effects on water permeability (Graziani, Livne) (291) 612
- Water**
 - Bilayer lipid membrane as a model for vasopressin, prostaglandin and Ca^{2+} effects on — permeability (Graziani, Livne) (291) 612
- Water flow**
 - Path of osmotic — through rabbit gall bladder epithelium (van Os, Slegers) (291) 197
- Yeast**
 - Activation of Rb^+ and Na^+ uptake into — by monovalent cations (Borst-Pauwels et al.) (291) 274
- Yeast**
 - Peptide utilization in —. Studies on methionine and lysine auxotrophs of *Saccharomyces cerevisiae* (Becker et al.) (291) 388