

Subject Index to Volume 82

Actin filament

Cell motility; Fluctuations; Myosin; Sliding movement (Hatori, K. (82) 29)

Adducin

ERM family proteins; Membrane ruffling; Microvilli; Rho; Rho-kinase (Fukata, Y. (82) 139)

ADP/ATP translocase

Ryanodine receptor; Sarcoplasmic reticulum; DIDS; Calsequestrin (Kasai, M. (82) 173)

Amino acid side-chains

Group additivity; Protein partial specific volumes; Aqueous solution; Tripeptides; Partial molar volume (Häckel, M. (82) 35)

Amoeboid movement

Phototaxis; *Physarum*; Cellular rhythm; Biochemical oscillation; Frequency synchronization (Nakagaki, T. (82) 23)

Aqueous solution

Tripeptides; Partial molar volume; Amino acid side-chains; Group additivity; Protein partial specific volumes (Häckel, M. (82) 35)

Aromatic hydrocarbons

Excluded volume; Dispersive interactions; Enthalpy–entropy compensation; Hydrophobicity (Graziano, G. (82) 69)

Biochemical oscillation

Frequency synchronization; Amoeboid movement; Phototaxis; *Physarum*; Cellular rhythm (Nakagaki, T. (82) 23)

Bioinformatics

Prediction; Genome; Proteome; Membrane protein (Mitaku, S. (82) 165)

Cadherin

Cell adhesion; Homophilic binding (Shan, W.-S. (82) 157)

Calsequestrin

ADP/ATP translocase; Ryanodine receptor; Sarcoplasmic reticulum; DIDS (Kasai, M. (82) 173)

Caveolae

Microdomain; Glycosphingolipid; src-family kinase; GPI-anchored protein; Lipid raft (Kasahara, K. (82) 121)

Cell adhesion

Homophilic binding; Cadherin (Shan, W.-S. (82) 157)

Cell motility

Fluctuations; Myosin; Sliding movement; Actin filament (Hatori, K. (82) 29)

Cell-surface organization

Fluorescence energy transfer; Scanning force microscopy; Electron microscopy; Receptor patterns (Damjanovich, S. (82) 99)

Cellular rhythm

Biochemical oscillation; Frequency synchronization; Amoeboid movement; Phototaxis; *Physarum* (Nakagaki, T. (82) 23)

DIDS

Calsequestrin; ADP/ATP translocase; Ryanodine receptor; Sarcoplasmic reticulum (Kasai, M. (82) 173)

Diffusion coefficient

K⁺ channel; Molecular dynamics (MD) simulation; Energetics; Ion permeation; Hydrophobic channel (Qi, Z. (82) 183)

Diffusion time

Protein 4.1; Phosphatidyl serine (PS); Phospholipase A₂ (PLA₂); Fluorescence correlation spectroscopy (FCS); Fluorescence autocorrelation functions (FAF) (Takakuwa, Y. (82) 149)

Discrete unfolding transition

Higher-order structure of DNA; Fluorescence microscopy; Single molecular observation; RNA; Spermidine (Tsumoto, K. (82) 1)

Dispersive interactions

Enthalpy–entropy compensation; Hydrophobicity; Aromatic hydrocarbons; Excluded volume (Graziano, G. (82) 69)

Dynamic force spectroscopy

Receptor–ligand interactions; Receptor-membrane anchoring; Energy landscapes of biomolecular bonds (Evans, E. (82) 83)

Electron microscopy

Receptor patterns; Cell-surface organization; Fluorescence energy transfer; Scanning force microscopy (Damjanovich, S. (82) 99)

Energetics

Ion permeation; Hydrophobic channel; Diffusion coefficient; K⁺ channel; Molecular dynamics (MD) simulation (Qi, Z. (82) 183)

Energy landscapes of biomolecular bonds

Dynamic force spectroscopy; Receptor–ligand interactions; Receptor-membrane anchoring (Evans, E. (82) 83)

Enthalpy–entropy compensation

Hydrophobicity; Aromatic hydrocarbons; Excluded volume; Dispersive interactions (Graziano, G. (82) 69)

ERM family proteins

Membrane ruffling; Microvilli; Rho; Rho-kinase; Adducin (Fukata, Y. (82) 139)

Excluded volume

Dispersive interactions; Enthalpy–entropy compensation; Hydrophobicity; Aromatic hydrocarbons (Graziano, G. (82) 69)

Fluctuations

Myosin; Sliding movement; Actin filament; Cell motility (Hatori, K. (82) 29)

Fluorescence autocorrelation functions (FAF)

Diffusion time; Protein 4.1; Phosphatidyl serine (PS); Phospholipase A₂ (PLA₂); Fluorescence correlation spectroscopy (FCS) (Takakuwa, Y. (82) 149)

Fluorescence correlation spectroscopy (FCS)

Fluorescence autocorrelation functions (FAF); Diffusion time; Protein 4.1; Phosphatidyl serine (PS); Phospholipase A₂ (PLA₂) (Takakuwa, Y. (82) 149)

Fluorescence energy transfer

Scanning force microscopy; Electron microscopy; Receptor patterns; Cell-surface organization (Damjanovich, S. (82) 99)

Fluorescence microscopy

Single molecular observation; RNA; Spermidine; Discrete unfolding transition; Higher-order structure of DNA (Tsumoto, K. (82) 1)

Frequency synchronization

Amoeboid movement; Phototaxis; *Physarum*; Cellular rhythm; Biochemical oscillation (Nakagaki, T. (82) 23)

Genome

Proteome; Membrane protein; Bioinformatics; Prediction (Mitaku, S. (82) 165)

Glycosphingolipid

src-family kinase; GPI-anchored protein; Lipid raft; Caveolae; Microdomain (Kasahara, K. (82) 121)

GPI-anchored protein

Lipid raft; Caveolae; Microdomain; Glycosphingolipid; src-family kinase (Kasahara, K. (82) 121)

Group additivity

Protein partial specific volumes; Aqueous solution; Tripeptides; Partial molar volume; Amino acid side-chains (Häckel, M. (82) 35)

Higher-order structure of DNA

Fluorescence microscopy; Single molecular observation; RNA; Spermidine; Discrete unfolding transition (Tsumoto, K. (82) 1)

Homophilic binding

Cadherin; Cell adhesion (Shan, W.-S. (82) 157)

Hydrophobic channel

Diffusion coefficient; K⁺ channel; Molecular dynamics (MD) simulation; Energetics; Ion permeation (Qi, Z. (82) 183)

Hydrophobicity

Aromatic hydrocarbons; Excluded volume; Dispersive interactions; Enthalpy–entropy compensation (Graziano, G. (82) 69)

IgE receptor

Membrane domains; Lipid rafts; Signal transduction; Lipid–protein interactions; Lipid–lipid interactions (Baird, B. (82) 109)

Ion permeation

Hydrophobic channel; Diffusion coefficient; K^+ channel; Molecular dynamics (MD) simulation; Energetics (Qi, Z. (82) 183)

 K^+ channel

Molecular dynamics (MD) simulation; Energetics; Ion permeation; Hydrophobic channel; Diffusion coefficient (Qi, Z. (82) 183)

Lipid raft

Caveolae; Microdomain; Glycosphingolipid; src-family kinase; GPI-anchored protein (Kasahara, K. (82) 121)

Lipid rafts

Signal transduction; Lipid-protein interactions; Lipid-lipid interactions; IgE receptor; Membrane domains (Baird, B. (82) 109)

Lipid-lipid interactions

IgE receptor; Membrane domains; Lipid rafts; Signal transduction; Lipid-protein interactions (Baird, B. (82) 109)

Lipid-protein interactions

Lipid-lipid interactions; IgE receptor; Membrane domains; Lipid rafts; Signal transduction (Baird, B. (82) 109)

Membrane domains

Lipid rafts; Signal transduction; Lipid-protein interactions; Lipid-lipid interactions; IgE receptor (Baird, B. (82) 109)

Membrane protein

Bioinformatics; Prediction; Genome; Proteome (Mitaku, S. (82) 165)

Membrane ruffling

Microvilli; Rho; Rho-kinase; Adducin; ERM family proteins (Fukata, Y. (82) 139)

Microdomain

Glycosphingolipid; src-family kinase; GPI-anchored protein; Lipid raft; Caveolae (Kasahara, K. (82) 121)

Microvilli

Rho; Rho-kinase; Adducin; ERM family proteins; Membrane ruffling (Fukata, Y. (82) 139)

Molecular dynamics

Plastocyanin; Solvent isotope (Guzzi, R. (82) 9)

Molecular dynamics (MD) simulation

Energetics; Ion permeation; Hydrophobic channel; Diffusion coefficient; K^+ channel (Qi, Z. (82) 183)

Myosin

Sliding movement; Actin filament; Cell motility; Fluctuations (Hatori, K. (82) 29)

Myristoylation

Protein-lipid interaction; Protein-protein interaction; Phosphorylation; Protein modification (Taniguchi, H. (82) 129)

Partial molar volume

Amino acid side-chains; Group additivity; Protein partial specific volumes; Aqueous solution; Tripeptides (Häckel, M. (82) 35)

Phosphatidyl serine (PS)

Phospholipase A_2 (PLA $_2$); Fluorescence correlation spectroscopy (FCS); Fluorescence autocorrelation functions (FAF); Diffusion time; Protein 4.1 (Takakuwa, Y. (82) 149)

Phospholipase A_2 (PLA $_2$)

Fluorescence correlation spectroscopy (FCS); Fluorescence autocorrelation functions (FAF); Diffusion time; Protein 4.1; Phosphatidyl serine (PS) (Takakuwa, Y. (82) 149)

Phosphorylation

Protein modification; Myristoylation; Protein-lipid interaction; Protein-protein interaction (Taniguchi, H. (82) 129)

Phototaxis

Physarum; Cellular rhythm; Biochemical oscillation; Frequency synchronization; Amoeboid movement (Nakagaki, T. (82) 23)

Physarum

Cellular rhythm; Biochemical oscillation; Frequency synchronization; Amoeboid movement; Phototaxis (Nakagaki, T. (82) 23)

Plastocyanin

Solvent isotope; Molecular dynamics (Guzzi, R. (82) 9)

Prediction

Genome; Proteome; Membrane protein; Bioinformatics (Mitaku, S. (82) 165)

Protein 4.1

Phosphatidyl serine (PS); Phospholipase A_2 (PLA $_2$); Fluorescence correlation spectroscopy (FCS); Fluorescence autocorrelation functions (FAF); Diffusion time (Takakuwa, Y. (82) 149)

Protein modification

Myristoylation; Protein-lipid interaction; Protein-protein interaction; Phosphorylation (Taniguchi, H. (82) 129)

Protein partial specific volumes

Aqueous solution; Tripeptides; Partial molar volume; Amino acid side-chains; Group additivity (Häckel, M. (82) 35)

Protein-lipid interaction

Protein-protein interaction; Phosphorylation; Protein modification; Myristoylation (Taniguchi, H. (82) 129)

Protein–protein interaction

Phosphorylation; Protein modification; Myristoylation; Protein–lipid interaction (Taniguchi, H. (82) 129)

Proteome

Membrane protein; Bioinformatics; Prediction; Genome (Mitaku, S. (82) 165)

Receptor patterns

Cell-surface organization; Fluorescence energy transfer; Scanning force microscopy; Electron microscopy (Damjanovich, S. (82) 99)

Receptor–ligand interactions

Receptor-membrane anchoring; Energy landscapes of biomolecular bonds; Dynamic force spectroscopy (Evans, E. (82) 83)

Receptor-membrane anchoring.

Energy landscapes of biomolecular bonds; Dynamic force spectroscopy; Receptor–ligand interactions (Evans, E. (82) 83)

Rho

Rho-kinase; Adducin; ERM family proteins; Membrane ruffling; Microvilli (Fukata, Y. (82) 139)

Rho-kinase

Adducin; ERM family proteins; Membrane ruffling; Microvilli; Rho (Fukata, Y. (82) 139)

RNA

Spermidine; Discrete unfolding transition; Higher-order structure of DNA; Fluorescence microscopy; Single molecular observation (Tsumoto, K. (82) 1)

Ryanodine receptor

Sarcoplasmic reticulum; DIDS; Calsequestrin; ADP/ATP translocase (Kasai, M. (82) 173)

Sarcoplasmic reticulum

DIDS; Calsequestrin; ADP/ATP translocase; Ryanodine receptor (Kasai, M. (82) 173)

Scanning force microscopy

Electron microscopy; Receptor patterns; Cell-surface organization; Fluorescence energy transfer (Damjanovich, S. (82) 99)

Signal transduction

Lipid–protein interactions; Lipid–lipid interactions; IgE receptor; Membrane domains; Lipid rafts (Baird, B. (82) 109)

Single molecular observation

RNA; Spermidine; Discrete unfolding transition; Higher-order structure of DNA; Fluorescence microscopy (Tsumoto, K. (82) 1)

Sliding movement

Actin filament; Cell motility; Fluctuations; Myosin (Hatori, K. (82) 29)

Solvent isotope

Molecular dynamics; Plastocyanin (Guzzi, R. (82) 9)

Spermidine

Discrete unfolding transition; Higher-order structure of DNA; Fluorescence microscopy; Single molecular observation; RNA (Tsumoto, K. (82) 1)

src-family kinase

GPI-anchored protein; Lipid raft; Caveolae; Microdomain; Glycosphingolipid (Kasahara, K. (82) 121)

Tripeptides

Partial molar volume; Amino acid side-chains; Group additivity; Protein partial specific volumes; Aqueous solution (Häckel, M. (82) 35)