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### Actinomycin D

DNA topology; DNA left-handed supercoil; Actinomycin chirality (Leoni, L. (33) 11)

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Single-photon timing; Fluorescence decay; Tryptophan; Global analysis; Quenching rate constant (Boens, N. (33) 77)

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### Base stacking

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DNA bending; Electric dichroism; Hydrodynamics; Dipole moment (Antosiewicz, J. (33) 19)

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Linear dichroism; Ultraviolet transition moment; DNA binding; DNA adduct; Diol epoxide (Roche, C.J. (33) 277)

### Bioluminescence

Lumazine protein; Bacterial luciferase; Fluorescence lifetime; Emission anisotropy decay (Lee, J. (33) 99)

### Brush border membrane

Acridine orange; Fluorescence spectroscopy; Lipid binding; (Proximal tubule) (Holmberg, E.G. (33) 245)

### $Ca^{2+}$ -dependent regulation

Actin regulation, F-; Subunit exchange; Pyrenyl-actin; Dynamic polarity (Mihashi, K. (33) 195)

### CD

Immunoglobulin A<sub>1</sub>; Hinge region oligopeptide; NMR,  $^{13}C$ -; Enzyme inhibitor (Burton, J. (33) 39)

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Liquid crystal; Polarized resonance Raman spectrum; Order parameter; Distribution function (Wróbel, D. (33) 127)

### $\alpha$ -Chymotrypsin

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### Cooperativity

Ligand binding; Infinite lattice approximation (Reiter, J. (33) 1)

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### Diffusional transition

Dipalmitoylphosphoglycerolcholine; Diffusion coefficient; Surface pressure isotherm (Denicourt, N. (33) 63)

### Diol epoxide

Linear dichroism; Ultraviolet transition moment; Benzo[a]pyrene derivative; DNA binding; DNA adduct (Roche, C.J. (33) 277)

### Dipalmitoylphosphoglycerolcholine

Diffusional transition; Diffusion coefficient; Surface pressure isotherm (Denicourt, N. (33) 63)

**Dipole moment**

DNA bending; Electric dichroism; Hydrodynamics; Bead model simulation (Antosiewicz, J. (33) 19)

**Distance distribution**

Donor-acceptor separation; Fluorescence intensity; Energy-transfer efficiency; Intensity decay time (Albaugh, S. (33) 71)

**Distribution function**

Chlorophyll *b*; Liquid crystal; Polarized resonance Raman spectrum; Order parameter (Wróbel, D. (33) 127)

**DNA adduct**

Linear dichroism; Ultraviolet transition moment; Benzo-[*a*]pyrene derivative; DNA binding; Diol epoxide (Roche, C.J. (33) 277)

**DNA bending**

Electric dichroism; Hydrodynamics; Bead model simulation; Dipole moment (Antosiewicz, J. (33) 19)

**DNA binding**

Linear dichroism; Ultraviolet transition moment; Benzo-[*a*]pyrene derivative; DNA adduct; Diol epoxide (Roche, C.J. (33) 277)

**DNA curvature**

Ribulose-1,5-bisphosphate carboxylase; Light-responsive element; Nucleotide sequence; Gene, *rbcS-3A* (Cacchione, S. (33) 217)

**DNA left-handed supercoil**

Actinomycin D; DNA topology; Actinomycin chirality (Leoni, L. (33) 11)

**DNA, local conformation**

DNA-Tb<sup>3+</sup> interaction; Tb<sup>3+</sup> fluorescence; DNase I; Platinum complex;  $\gamma$ -Irradiation; Ultraviolet irradiation (Balcarová, Z. (33) 55)

**DNase I**

DNA-Tb<sup>3+</sup> interaction; Tb<sup>3+</sup> fluorescence; DNA, local conformation; Platinum complex;  $\gamma$ -Irradiation; Ultraviolet irradiation (Balcarová, Z. (33) 55)

**DNA structure,  $\psi$ -**

Histone H1; H1 domain; Kinetics (Morán, F. (33) 133)

**DNA-Tb<sup>3+</sup> interaction**

Tb<sup>3+</sup> fluorescence; DNA, local conformation; DNase I; Platinum complex;  $\gamma$ -Irradiation; Ultraviolet irradiation (Balcarová, Z. (33) 55)

**DNA topology**

Actinomycin D; DNA left-handed supercoil; Actinomycin chirality (Leoni, L. (33) 11)

**Donor-acceptor separation**

Fluorescence intensity; Distance distribution; Energy-transfer efficiency; Intensity decay time (Albaugh, S. (33) 71)

**Dynamic polarity**

Actin regulation, F-; Subunit exchange; Pyrenyl-actin; Ca<sup>2+</sup>-dependent regulation (Mihashi, K. (33) 195)

**Electric current**

Multicellular system; Proton accumulation; Growth; (Plant) (Toko, K. (33) 161)

**Electric dichroism**

DNA bending; Hydrodynamics; Bead model simulation; Dipole moment (Antosiewicz, J. (33) 19)

**Electro-kinetics**

Nonequilibrium thermodynamics; Membrane permeability; Membrane structure; Anisotropy; Viscoelastic behavior (Shukla, P.C. (33) 31)

**Emission anisotropy decay**

Lumazine protein; Bacterial luciferase; Fluorescence lifetime; Bioluminescence (Lee, J. (33) 99)

**Energy transfer**

Liposome; Absorbance; Fluorescence; K<sup>+</sup>; Kinetics; Optical sensor (Roe, J.N. (33) 295)

**Energy-transfer efficiency**

Donor-acceptor separation; Fluorescence intensity; Distance distribution; Intensity decay time (Albaugh, S. (33) 71)

**Enzyme inhibitor**

Immunoglobulin A<sub>1</sub>; Hinge region oligopeptide; CD; NMR, <sup>13</sup>C- (Burton, J. (33) 39)

**Equilibrium constant**

Base stacking; mRNA; Purine derivative (Darzynkiewicz, E. (33) 285)

**Erythrocyte**

NMR, <sup>31</sup>P-; Microviscosity; Hypophosphite ion; Longitudinal relaxation time; Spin-rotation relaxation; (Human) (Price, W.S. (33) 205)

**Europium(III) luminescence**

Laser spectroscopy; Phospholipid bilayer vesicle; Ion transport; Mobile carrier mechanism; Phosphatidylcholine (Cader, B.M. (33) 265)

**Excluded volume**

Thermodynamic nonideality; Interaction coefficient; Gel chromatography; Partition coefficient (Van Damme, M.-P.I. (33) 115)

**Fluorescence**

Protein unfolding; Myoglobin; Guanidine hydrochloride; Urea; Time-resolved fluorescence spectroscopy (Fronticelli, C. (33) 143)

Liposome; Absorbance; Energy transfer;  $K^+$ ; Kinetics; Optical sensor (Roe, J.N. (33) 295)

**Fluorescence decay**

Single-photon timing; Activation energy; Tryptophan; Global analysis; Quenching rate constant (Boens, N. (33) 77)

**Fluorescence intensity**

Donor-acceptor separation; Distance distribution; Energy-transfer efficiency; Intensity decay time (Albaugh, S. (33) 71)

**Fluorescence lifetime**

Lumazine protein; Bacterial luciferase; Emission anisotropy decay; Bioluminescence (Lee, J. (33) 99)

**Fluorescence spectroscopy**

Acridine orange; Brush border membrane; Lipid binding; (Proximal tubule) (Holmberg, E.G. (33) 245)

**Gel chromatography**

Thermodynamic nonideality; Interaction coefficient; Partition coefficient; Excluded volume (Van Damme, M.-P.I. (33) 115)

**Gene, *rbcS-3A***

Ribulose-1,5-bisphosphate carboxylase; Light-responsive element; Nucleotide sequence; DNA curvature (Cacchione, S. (33) 217)

**Global analysis**

Single-photon timing; Activation energy; Fluorescence decay; Tryptophan; Quenching rate constant (Boens, N. (33) 77)

**Glyceraldehyde-3-phosphate dehydrogenase**

Tryptophan phosphorescence; Protein dynamics (Gabbellieri, E. (33) 257)

**Growth**

Multicellular system; Electric current; Proton accumulation; (Plant) (Toko, K. (33) 161)

**Guanidine hydrochloride**

Protein unfolding; Myoglobin; Urea; Time-resolved fluorescence spectroscopy; Fluorescence (Fronticelli, C. (33) 143)

**H1 domain**

DNA structure,  $\psi$ -; Histone H1; Kinetics (Morán, F. (33) 133)

**Hinge region oligopeptide**

Immunoglobulin A<sub>1</sub>; CD; NMR,  $^{13}\text{C}$ -; Enzyme inhibitor (Burton, J. (33) 39)

**Histone H1**

DNA structure,  $\psi$ -; H1 domain; Kinetics (Morán, F. (33) 133)

**Horseradish peroxidase**

Solvent effect; Hydrostatic pressure; Subzero temperature; Stopped-flow (Balny, C. (33) 237)

**Hydrodynamics**

DNA bending; Electric dichroism; Bead model simulation; Dipole moment (Antosiewicz, J. (33) 19)

**Hydrostatic pressure**

Horseradish peroxidase; Solvent effect; Subzero temperature; Stopped-flow (Balny, C. (33) 237)

**Hypophosphite ion**

NMR,  $^{31}\text{P}$ -; Erythrocyte; Microviscosity; Longitudinal relaxation time; Spin-rotation relaxation; (Human) (Price, W.S. (33) 205)

**Immunoglobulin A<sub>1</sub>**

Hinge region oligopeptide; CD; NMR,  $^{13}\text{C}$ -; Enzyme inhibitor (Burton, J. (33) 39)

**Infinite lattice approximation**

Cooperativity; Ligand binding (Reiter, J. (33) 1)

**Intensity decay time**

Donor-acceptor separation; Fluorescence intensity; Distance distribution; Energy-transfer efficiency (Albaugh, S. (33) 71)

**Interaction coefficient**

Thermodynamic nonideality; Gel chromatography; Partition coefficient; Excluded volume (Van Damme, M.-P.I. (33) 115)

**Ion transport**

Europium(III) luminescence; Laser spectroscopy; Phospholipid bilayer vesicle; Mobile carrier mechanism; Phosphatidylcholine (Cader, B.M. (33) 265)

 **$\gamma$ -Irradiation**

DNA-Tb $^{3+}$  interaction; Tb $^{3+}$  fluorescence; DNA, local conformation; DNase I; Platinum complex; Ultraviolet irradiation (Balcarová, Z. (33) 55)

 **$K^+$** 

Liposome; Absorbance; Fluorescence; Energy transfer; Kinetics; Optical sensor (Roe, J.N. (33) 295)

**Kinetics**

Protein association;  $\alpha$ -Chymotrypsin; Stopped-flow; Solvation (Kitano, H. (33) 47)

DNA structure,  $\psi$ -; Histone H1; H1 domain (Morán, F. (33) 133)

Stopped-flow; X-ray scattering; Phosphorylase *b* (Wang, Z.-X. (33) 153)

Liposome; Absorbance; Fluorescence; Energy transfer;  $K^+$ ; Optical sensor (Roe, J.N. (33) 295)

#### Laser spectroscopy

Europium(III) luminescence; Phospholipid bilayer vesicle; Ion transport; Mobile carrier mechanism; Phosphatidylcholine (Cader, B.M. (33) 265)

#### Ligand binding

Cooperativity; Infinite lattice approximation (Reiter, J. (33) 1)

#### Light-responsive element

Ribulose-1,5-bisphosphate carboxylase; Nucleotide sequence; Gene, *rbcS-3A*; DNA curvature (Cacchione, S. (33) 217)

#### Linear dichroism

Ultraviolet transition moment; Benzo[*a*]pyrene derivative; DNA binding; DNA adduct; Diol epoxide (Roche, C.J. (33) 277)

#### Lipid binding

Acridine orange; Brush border membrane; Fluorescence spectroscopy; (Proximal tubule) (Holmberg, E.G. (33) 245)

#### Liposome

Absorbance; Fluorescence; Energy transfer;  $K^+$ ; Kinetics; Optical sensor (Roe, J.N. (33) 295)

#### Liquid crystal

Chlorophyll *b*; Polarized resonance Raman spectrum; Order parameter; Distribution function (Wróbel, D. (33) 127)

#### Longitudinal relaxation time

NMR,  $^{31}\text{P}$ -; Erythrocyte; Microviscosity; Hypophosphite ion; Spin-rotation relaxation; (Human) (Price, W.S. (33) 205)

#### Lumazine protein

Bacterial luciferase; Fluorescence lifetime; Emission anisotropy decay; Bioluminescence (Lee, J. (33) 99)

#### Membrane permeability

Nonequilibrium thermodynamics; Membrane structure; Electro-kinetics; Anisotropy; Viscoelastic behavior (Shukla, P.C. (33) 31)

#### Membrane structure

Nonequilibrium thermodynamics; Membrane permeability; Electro-kinetics; Anisotropy; Viscoelastic behavior (Shukla, P.C. (33) 31)

#### Membrane transport

Time delay; Overshoot; Oscillatory permeation (Ohshima, H. (33) 303)

#### Microviscosity

NMR,  $^{31}\text{P}$ -; Erythrocyte; Hypophosphite ion; Longitudinal relaxation time; Spin-rotation relaxation; (Human) (Price, W.S. (33) 205)

#### Mobile carrier mechanism

Europium(III) luminescence; Laser spectroscopy; Phospholipid bilayer vesicle; Ion transport; Phosphatidylcholine (Cader, B.M. (33) 265)

#### Multicellular system

Electric current; Proton accumulation; Growth; (Plant) (Toko, K. (33) 161)

#### Myoglobin

Protein unfolding; Guanidine hydrochloride; Urea; Time-resolved fluorescence spectroscopy; Fluorescence (Fronticelli, C. (33) 143)

#### NMR, $^{13}\text{C}$ -

Immunoglobulin  $A_1$ ; Hinge region oligopeptide; CD; Enzyme inhibitor (Burton, J. (33) 39)

#### NMR, $^{31}\text{P}$ -

Erythrocyte; Microviscosity; Hypophosphite ion; Longitudinal relaxation time; Spin-rotation relaxation; (Human) (Price, W.S. (33) 205)

#### Nonequilibrium thermodynamics

Membrane permeability; Membrane structure; Electro-kinetics; Anisotropy; Viscoelastic behavior (Shukla, P.C. (33) 31)

#### Nucleic acid base

Nucleic acid hydration; Partial molar heat capacity; Partial molar volume; Nucleoside; Aqueous sugar solution (Kishore, N. (33) 227)

#### Nucleic acid hydration

Partial molar heat capacity; Partial molar volume; Nucleic acid base; Nucleoside; Aqueous sugar solution (Kishore, N. (33) 227)

#### Nucleoside

Nucleic acid hydration; Partial molar heat capacity; Partial molar volume; Nucleic acid base; Aqueous sugar solution (Kishore, N. (33) 227)

#### Nucleotide sequence

Ribulose-1,5-bisphosphate carboxylase; Light-responsive element; Gene, *rbcS-3A*; DNA curvature (Cacchione, S. (33) 217)

#### Optical sensor

Liposome; Absorbance; Fluorescence; Energy transfer;  $K^+$ ; Kinetics (Roe, J.N. (33) 295)

#### Order parameter

Chlorophyll *b*; Liquid crystal; Polarized resonance Raman spectrum; Distribution function (Wróbel, D. (33) 127)

#### Oscillatory permeation

Membrane transport; Time delay; Overshoot (Ohshima, H. (33) 303)

**Overshoot**

Membrane transport; Time delay; Oscillatory permeation (Ohshima, H. (33) 303)

**Partial molar heat capacity**

Nucleic acid hydration; Partial molar volume; Nucleic acid base; Nucleoside; Aqueous sugar solution (Kishore, N. (33) 227)

**Partial molar volume**

Nucleic acid hydration; Partial molar heat capacity; Nucleic acid base; Nucleoside; Aqueous sugar solution (Kishore, N. (33) 227)

**Partition coefficient**

Thermodynamic nonideality; Interaction coefficient; Gel chromatography; Excluded volume (Van Damme, M.-P.I. (33) 115)

**Phosphatidylcholine**

Europium(III) luminescence; Laser spectroscopy; Phospholipid bilayer vesicle; Ion transport; Mobile carrier mechanism (Cader, B.M. (33) 265)

**Phospholipid bilayer vesicle**

Europium(III) luminescence; Laser spectroscopy; Ion transport; Mobile carrier mechanism; Phosphatidylcholine (Cader, B.M. (33) 265)

**Phosphorylase *b***

Stopped-flow; X-ray scattering; Kinetics (Wang, Z.-X. (33) 153)

**Platinum complex**

DNA-Tb<sup>3+</sup> interaction; Tb<sup>3+</sup> fluorescence; DNA, local conformation; DNase I;  $\gamma$ -Irradiation; Ultraviolet irradiation (Balcarová, Z. (33) 55)

**Polarized resonance Raman spectrum**

Chlorophyll *b*; Liquid crystal; Order parameter; Distribution function (Wróbel, D. (33) 127)

**Protein association**

$\alpha$ -Chymotrypsin; Stopped-flow; Solvation; Kinetics (Kitano, H. (33) 47)

**Protein dynamics**

Glyceraldehyde-3-phosphate dehydrogenase; Tryptophan phosphorescence (Gabbieri, E. (33) 257)

**Protein unfolding**

Myoglobin; Guanidine hydrochloride; Urea; Time-resolved fluorescence spectroscopy; Fluorescence (Fronticelli, C. (33) 143)

**Proton accumulation**

Multicellular system; Electric current; Growth; (Plant) (Toko, K. (33) 161)

**Purine derivative**

Base stacking; mRNA; Equilibrium constant (Darzynkiewicz, E. (33) 285)

**Pyrenyl-actin**

Actin, F-; Subunit exchange, steady-state; Treadmilling; Subunit flow (Suzuki, N. (33) 177)

Actin regulation, F-; Subunit exchange; Dynamic polarity; Ca<sup>2+</sup>-dependent regulation (Mihashi, K. (33) 195)

**Quenching rate constant**

Single-photon timing; Activation energy; Fluorescence decay; Tryptophan; Global analysis (Boens, N. (33) 77)

**Radiation damage**

Thermodynamics; Cell death (Di Cera, E. (33) 91)

**Ribulose-1,5-bisphosphate carboxylase**

Light-responsive element; Nucleotide sequence; Gene, *rbcS-3A*; DNA curvature (Cacchione, S. (33) 217)

**mRNA**

Base stacking; Equilibrium constant; Purine derivative (Darzynkiewicz, E. (33) 285)

**Single-photon timing**

Activation energy; Fluorescence decay; Tryptophan; Global analysis; Quenching rate constant (Boens, N. (33) 77)

**Solvation**

Protein association;  $\alpha$ -Chymotrypsin; Stopped-flow; Kinetics (Kitano, H. (33) 47)

**Solvent effect**

Horseradish peroxidase; Hydrostatic pressure; Subzero temperature; Stopped-flow (Balny, C. (33) 237)

**Spin-rotation relaxation**

NMR, <sup>31</sup>P-; Erythrocyte; Microviscosity; Hypophosphite ion; Longitudinal relaxation time; (Human) (Price, W.S. (33) 205)

**Stopped-flow**

Protein association;  $\alpha$ -Chymotrypsin; Solvation; Kinetics (Kitano, H. (33) 47)

X-ray scattering; Phosphorylase *b*; Kinetics (Wang, Z.-X. (33) 153)

Horseradish peroxidase; Solvent effect; Hydrostatic pressure; Subzero temperature (Balny, C. (33) 237)

**Subunit exchange**

Actin regulation, F-; Pyrenyl-actin; Dynamic polarity; Ca<sup>2+</sup>-dependent regulation (Mihashi, K. (33) 195)

**Subunit exchange, steady-state**

Actin, F-; Treadmilling; Pyrenyl-actin; Subunit flow (Suzuki, N. (33) 177)

**Subunit flow**

Actin, F-; Subunit exchange, steady-state; Treadmilling; Pyrenyl-actin (Suzuki, N. (33) 177)

**Subzero temperature**

Horse radish peroxidase; Solvent effect; Hydrostatic pressure; Stopped-flow (Balny, C. (33) 237)

**Surface pressure isotherm**

Dipalmitoylphosphoglycerocholine; Diffusional transition; Diffusion coefficient (Denicourt, N. (33) 63)

**Tb<sup>3+</sup> fluorescence**

DNA-Tb<sup>3+</sup> interaction; DNA, local conformation; DNase I; Platinum complex;  $\gamma$ -Irradiation; Ultraviolet irradiation (Balcarová, Z. (33) 55)

**Thermodynamic nonideality**

Interaction coefficient; Gel chromatography; Partition coefficient; Excluded volume (Van Damme, M.-P.I. (33) 115)

**Thermodynamics**

Radiation damage; Cell death (Di Cera, E. (33) 91)

**Time delay**

Membrane transport; Overshoot; Oscillatory permeation (Ohshima, H. (33) 303)

**Time-resolved fluorescence spectroscopy**

Protein unfolding; Myoglobin; Guanidine hydrochloride; Urea; Fluorescence (Fronticelli, C. (33) 143)

**Treadmilling**

Actin, F-; Subunit exchange, steady-state; Pyrenyl-actin; Subunit flow (Suzuki, N. (33) 177)

**Tryptophan**

Single-photon timing; Activation energy; Fluorescence decay; Global analysis; Quenching rate constant (Boens, N. (33) 77)

**Tryptophan phosphorescence**

Glyceraldehyde-3-phosphate dehydrogenase; Protein dynamics (Gabbieri, E. (33) 257)

**Ultraviolet irradiation**

DNA-Tb<sup>3+</sup> interaction; Tb<sup>3+</sup> fluorescence; DNA, local conformation; DNase I; Platinum complex;  $\gamma$ -Irradiation (Balcarová, Z. (33) 55)

**Ultraviolet transition moment**

Linear dichroism; Benzo[a]pyrene derivative; DNA binding; DNA adduct; Diol epoxide (Roche, C.J. (33) 277)

**Urea**

Protein unfolding; Myoglobin; Guanidine hydrochloride; Time-resolved fluorescence spectroscopy; Fluorescence (Fronticelli, C. (33) 143)

**Viscoelastic behavior**

Nonequilibrium thermodynamics; Membrane permeability; Membrane structure; Electro-kinetics; Anisotropy (Shukla, P.C. (33) 31)

**X-ray scattering**

Stopped-flow; Phosphorylase *b*; Kinetics (Wang, Z.-X. (33) 153)