

BIBLIOGRAFÍA

8. BIBLIOGRAFÍA

- ◆ Abramson, J.; Smirnova, I.; Kasho, V.; Verner, G.; Kaback, H.R.; Iwata, S. (2003). *Structure and Mechanism of the Lactose Permease of Escherichia coli*. Science, 301, 610-615.
- ◆ Alberts, B.; Johnson, A.; Lewis, J.; Raff, M.; Roberts, K.; Walter, P. (2002). *Molecular Biology of the Cell*. 4ª Edición. Garland Science Pub. Nueva York (USA).
- ◆ Alexander, S.; Hellems, L.; Marti, O.; Schneir, J.; Elings, V.; Hansma, P.K. (1989). *An atomic-resolution atomic-force microscope implemented using an optical lever*. J. Appl. Phys., 65, 164-167.
- ◆ Allison, D.P.; Hinterdorfer, P.; Han, W. (2002). *Biomolecular force measurements and the atomic force microscope*. Curr. Opin. Biotech., 13, 47-51.
- ◆ Anderson, R.G.W. y Jacobson, K. (2002). *A Role for Lipid Shells in Targeting Proteins to Caveolae, Rafts, and Other Lipid Domains*. Science, 296, 1821-1825.
- ◆ Basu, S.C. y Basu, M. (2002). *Methods in Molecular Biology. Volume 199. Liposome Methods and Protocols*. Ed. Humana Press. Totowa, New Jersey (USA).
- ◆ Bechinger, B. (2000). *Understanding peptide interactions with the lipid bilayer: a guide to membrane protein engineering*. Curr. Opin. Chem. Biol., 4, 639-644.
- ◆ Beckmann, M.; Nollert, P.; Kolb, H.A. (1998). *Manipulation and Molecular Resolution of a Phosphatidylcholine-Supported Planar Bilayer by Atomic Force Microscopy*. J. Mem. Biol., 161, 227-233.
- ◆ Benz, R.; Janko, K.; Boos, W.; Lauger, P. (1978). *Formation of large, ion-permeable membrane channels by the matrix protein (porin) of Escherichia coli*. Biochim. Biophys. Acta, 511, 305-319.
- ◆ Benz, R.; Maier, E.; Chakraborty, T. (1997). *Purification of OmpU from Vibrio cholerae classical strain 569B: evidence for the formation of large cation-selective ion-permeable channels by OmpU*. Microbiología SEM, 13, 321-330.
- ◆ Benz, R.; Schmid, A.; Hancock, R.E.W. (1985). *Ion selectivity of Gram-negative bacterial porins*. J. Bacteriol., 162, 722-727.

- ◆ Benzanilla, M.; Drake, B.; Nudler, E.; Kashlev, M.; Hansma, P.K.; Hansma, H.G. (1994). *Motion and enzymatic degradation of DNA in the atomic force microscope*. Biophys. J., 67, 2454-2459.
- ◆ Bergethon, P.R. (1998). *The Physical Basis of Biochemistry. The Foundations of Molecular Biophysics*. Ed. Springer. Nueva York (USA).
- ◆ Berquand, A.; Mingeot-Leclercq, M.P.; Dufrêne, Y.F. (2004). *Real-time imaging of drug-membrane interactions by atomic force microscopy*. Biochim. Biophys. Acta, 1664, 198-205.
- ◆ Bigelow, C.C. (1967). *On the average hydrophobicity of proteins and the relationship between it and protein structure*. J. Theor. Biol., 16, 187-211.
- ◆ Binnig, G.; Quate, C.F. y Gerber, Ch. (1986). *Atomic Force Microscopy*. Phys. Rev. Lett., 56, 930-933.
- ◆ Binnig, G.; Rohrer, H.; Gerber, Ch.; Weibel, E. (1982). *Tunneling through a controllable vacuum gap*. Appl. Phys. Lett., 40, 178-180.
- ◆ Bogdanov, M. y Dowhan, W. (1995). *Phosphatidylethanolamine is required for in vivo function of the membrane-associated Lactose Permease of Escherichia coli*. J. Biol. Chem., 270 (2), 732-739.
- ◆ Bogdanov, M. y Dowhan, W. (1998). *Phospholipid-assisted protein folding: phosphatidylethanolamine is required at a late step of the conformational maturation of the polytopic membrane protein lactose permease*. EMBO J., 17, 5255-5264.
- ◆ Bogdanov, M.; Heacock, P.N. y Dowhan, W. (2002). *A polytopic membrane protein displays a reversible topology dependent on membrane lipid composition*. EMBO J., 21, 2107-2116.
- ◆ Boggs, J.M. (1987). *Lipid intermolecular hydrogen bonding: influence on structural organization and membrane function*. Biochim. Biophys. Acta, 906, 353-404.
- ◆ Bollag, D.M. y Edelstein, S.J. (1991). *Protein Methods*. Ed. Wiley-Liss. Nueva York (USA).
- ◆ Brown, D.A. y London, E. (1998). *Structure and Origin of Ordered Lipid Domains in Biological Membranes*. J. Mem. Biol., 164, 103-114.

- ◆ Bustamante, C.; Vesenka, J.; Tang, C.L.; Rees, W.; Guthod, M.; Keller, R. (1992). *Circular DNA imaged in air by scanning force microscopy*. Biochemistry, 31, 22-26.
- ◆ Cai, J.; Yang, J. y Jones, D.P. (1998). *Mitochondrial control of apoptosis: the role of the cytochrome c*. Biochim. Biophys. Acta, 1366, 139-149.
- ◆ Cócera, M.; López, O.; Coderch, L.; Parra, J.L.; de la Maza, A. (2000). *Influence of the level of cholesterol sulfate in the solubilization of stratum corneum lipid liposomes by sodium dodecyl sulfate*. Colloid Polym. Sci., 278, 794-799.
- ◆ Cócera, M.; López, O.; Coderch, L.; Parra, J.L.; de la Maza, A. (2002). *Sublytic Alterations Caused by the Nonionic Surfactant Dodecyl Maltoside in Stratum Corneum Lipid Liposomes*. Langmuir, 18, 297-300.
- ◆ Cowan, S.W.; Schirmer, T.; Rummel, G.; Steiert, M.; Ghosh, R.; Pauptit, R.A.; Jansonius, J.N. y Rosenbusch, J.P. (1992). *Crystal structures explain functional properties of two Escherichia coli porins*. Nature, 358, 727-733.
- ◆ Csúcs, G. y Ramsden, J.J. (1998). *Solubilization of planar bilayers with detergent*. Biochim. Biophys. Acta, 1369, 304-308.
- ◆ Dan, N. y Safran, S.A. (1998). *Effect of lipid Characteristics on the Structure of Transmembrane Proteins*. Biophys. J., 75, 1410-1414.
- ◆ De Grooth, B.G.; Putman, C.A. (1992). *High-resolution imaging of chromosome-related structures by atomic force microscopy*. J. Microsc., 168, 239-247.
- ◆ De Jongh, H.H.J.; Ritsema, T.; Killian, J.A. (1995). *Lipid specificity for membrane mediated partial unfolding of cytochrome c*. FEBS Letters. 360, 255-260.
- ◆ De la Maza, A. y Parra, J.L. (1994). *Structural phase transitions involved in the interaction of phospholipid bilayers with octyl glucoside*. Eur. J. Biochem., 226, 1029-1038.
- ◆ De la Maza, A. y Parra, J.L. (1997). *Solubilizing Effects Caused by the Nonionic Surfactant Dodecylmaltoside in Phosphatidylcholine Liposomes*. Biophys. J., 72, 1668-1675.
- ◆ Dempsey, C.E. (1990). *The actions of melittin on membranes*. Biochim. Biophys. Acta, 1031, 143-161.
- ◆ Desagher, S. y Martinou, J. C. (2000). *Mitochondria as the central control point of apoptosis*. Trends Cell Biol., 10, 369-377.

- ◆ Dimitrova, M.N.; Matsumura, H.; Terezava, N.; Neytchev, V. (2002). *Binding of globular proteins to lipid membranes studied by isothermal titration calorimetry and fluorescence*. Colloid Surface B, 24, 53-61.
- ◆ Dolder, M.; Engel, A.; Zulauf, M. (1996). *The micelle to vesicle transition of lipids and detergents in the presence of a membrane protein: towards a rationale for 2D crystallization*. FEBS Letters, 382, 203-208.
- ◆ Domènech, Ò.; Torrent-Burgués, J.; Merino, S.; Sanz, F.; Montero, M.T.; Hernández-Borrell, J. (2005). *Surface thermodynamics study of monolayers formed with heteroacid phospholipids of biological interest*. Colloid Surface B, 41, 233-238.
- ◆ Dubois, M.; Gilles, K.A.; Hamilton, J.K.; Rebers, P.A. y Smith, F. (1956). *Colorimetric Method for Determination of Sugars and Related Substances*. Anal. Chem., 28 (3), 350-356.
- ◆ Dufrêne, Y.F. (2001). *Application of atomic force microscopy to microbial surfaces: from reconstituted cell surface layers to living cells*. Micron, 32, 153-165.
- ◆ Dufrêne, Y.F. (2003). *Recent progress in the application of atomic force microscopy imaging and force spectroscopy to microbiology*. Curr. Opin. Microbiol., 6, 317-323.
- ◆ Dufrêne, Y.F. y Lee, G.U. (2000). *Advances in the characterization of supported lipid films with the atomic force microscope*. Biochim. Biophys. Acta, 1509, 14-41.
- ◆ Dumas, F.; Lebrun, M.Ch.; Tocanne, F. (1999). *Is the protein/lipid hydrophobic matching principle relevant to membrane organization and functions?*. FEBS Letters, 458, 271-277.
- ◆ Egawa, H. y Furosawa, K. (1999). *Liposome Adhesion on Mica Surface Studied by Atomic Force Microscopy*. Langmuir, 15, 1660-1666.
- ◆ Engel, C.K.; Chen, L.; Privé G.G. (2002). *Stability of the lactose permease in detergent solutions*. Biochim. Biophys. Acta, 1564, 47-56.
- ◆ Engel, A.; Müller, D.J. (2000). *Observing single biomolecules at work with the atomic force microscope*. Nature Struct. Biol., 7, 715-718.
- ◆ Fernández, M.S. (1981). *Determination of surface potential in liposomes*. Biochim. Biophys. Acta, 646, 23-26.

- ◆ Fernández, M.S. y Fromherz, P. (1977). *Lipoid pH Indicators as Probes of Electrical Potential and Polarity in Micelles*. J. Phys. Chem., 81, 1755-1761.
- ◆ Firtel, M.; Beveridge, T.J. (1995). *Scanning Force Microscopy in Microbiology*. Micron, 26, 347-362.
- ◆ Foster, D.L.; Boublik, M.; Kaback, H.R. (1983). *Structure of the lac carrier protein of Escherichia coli*. J. Biol. Chem., 258, 31-34.
- ◆ Fotiadis, D.; Scheuring, S.; Müller, S.A.; Engel, A.; Müller, D.J. (2002). *Imaging and manipulation of biological structures with the AFM*. Micron, 33, 385-397.
- ◆ Fritzsche, W.; Henderson, E. (1996). *Volume determination of human metaphase chromosomes by scanning force microscopy*. Scanning microsc., 10, 103-110.
- ◆ Gaboriaud, F.; Golan, R.; Volinsky, R.; Berman, A.; Jelinek, R. (2001). *Organization and Structural Properties of Langmuir Films Composed of Conjugated Polydiacetylene and Phospholipids*. Langmuir, 17, 3651-3657.
- ◆ Garavito, R.M. y Rosenbush, J.P. (1980). *Three-dimensional Crystals of an Integral Membrane Protein: An Initial X-Ray Analysis*. J. Cell Biol., 86, 327-329.
- ◆ Gil, T.; Ipsen, J.H.; Mouritsen, O.G.; Sabra, M.C.; Sperotto, M.M.; Zuckermann, M.J. (1998). *Theoretical analysis of protein organization in lipid membranes*. Biochim. Biophys. Acta, 1376, 245-266.
- ◆ Gimzewski, J.K.; Joachim, C. (1999). *Nanoscale science of single molecules using local probes*. Science, 283, 1683-1688.
- ◆ Giocondi, M.C.; Pacheco, L.; Milhiet, P.E.; Le Grimmellec, Ch. (2001). *Temperature dependence of the topology of supported dimyristoyl-distearoyl phosphatidylcholine bilayers*. Ultramicroscopy, 86, 151-157.
- ◆ Giocondi, M.C.; Vié, V.; Lesniewska, E.; Goudonnet, J.P.; Le Grimmellec, Ch. (2000). *In Situ Imaging of Detergent-Resistant Membranes by Atomic Force Microscopy*. J. Struct. Biol., 131, 38-43.
- ◆ Gómara, M.J.; Nir, S. y Nieva, J.L. (2003). *Effects of sphingomyelin on melittin pore formation*. Biochim. Biophys. Acta, 1612, 83-89.
- ◆ Gorbenko, G.P. y Domanov, Y.A. (2003). *Cytochrome c location in phosphatidylcholine/cardioplipin model membranes: resonance energy transfer study*. Biophys. Chem., 103, 239-249.

- ◆ Grigorieff, N.; Ceska, T.A.; Downing, K.H.; Baldwin, J.M.; Henderson, R. (1996). *Electron-crystallographic refinement of the structure of bacteriorhodopsin*. J. Mol. Biol., 259, 393-421.
- ◆ Habermann, E. (1972). *Bee and wasp venoms*. Science, 177, 314-322.
- ◆ Hallett, P.; Offer, G.; Miles, M.J. (1995). *Atomic force microscopy of the myosin molecule*. Biophys. J., 68, 1604-1606.
- ◆ Hasler, L.; Heymann, J.B.; Engel, A.; Kistler, J.; Walz, T. (1998). *2D Crystallization of Membrane Proteins: Rationales and Examples*. J. Struct. Biol., 121, 162-171.
- ◆ Hauser, H.; Pascher, I.; Pearson, H.R.; Sundell, S. (1981). *Preferred conformation and molecular packing of phosphatidylethanolamine and phosphatidylcholine*. Biochim. Biophys. Acta, 650, 21-51.
- ◆ Henderson, R.M.; Schneider, S.; Li, Q.; Hornby, D.; White, S.J.; Oberleithner, H. (1996). *Imaging ROMK1 inwardly rectifying ATP-sensitive K⁺ channel protein using atomic force microscopy*. Proc. Natl. Acad. Sci. USA, 93, 8756-8760.
- ◆ Heymann, J.B.; Pfeiffer, M.; Hildebrandt, V.; Kaback, H.R.; Fotiadis, D.; de Groot, B.; Engel, A.; Oesterhelt, D.; Müller, D.J. (2000). *Conformations of the rhodopsin third cytoplasmic loop grafted onto bacteriorhodopsin*. Structure, 8, 643-653.
- ◆ Hinch, D.K. y Crowe, J.H. (1996). *The lytic activity of the bee venom peptide melittin is strongly reduced by the presence of negatively charged phospholipids or chloroplast galactolipids in the membranes of phosphatidylcholine large unilamellar vesicles*. Biochim. Biophys. Acta, 1284, 162-170.
- ◆ Hope, M.J.; Bally, M.B.; Webb, G.; Cullis, P.R. (1985). *Production of large unilamellar vesicles by a rapid extrusion procedure*. Biochim. Biophys. Acta, 812, 55-65.
- ◆ Houslay, M.D. y Stanley, K.K. (1982). *Dynamics of biological membranes: influence on synthesis, structure and function*. Ed. Wiley. Nueva York (USA).
- ◆ Houssin, C.; Le Maire, M.; Aggerbeck, L.P.; Shechter, E. (1985). *The Lactose Permease of Escherichia coli: Evidence in Favor of a Dimer*. Arch. Biochem. Biophys., 240, 593-606.
- ◆ Hristova, K.; Dempsey, C.E. y White, S.H. (2001). *Structure, Location, and Lipid Perturbations of Melittin at the Membrane Interface*. Biophys. J., 80, 801-811.

- ◆ Huang, C.H. (1969). *Studies of phosphatidylcholine vesicles: Formation and physical characteristics*. Biochemistry, 8, 334-352.
- ◆ Huang, C.H. (1977). *A structural model for the cholesterol-phosphatidylcholine complexes in bilayer membranes*. Lipids, 12, 348-356.
- ◆ Hui, S.W.; Viswanathan, R.; Zasadzinski, J.A.; Israelachvili, J.N. (1995). *The structure and stability of phospholipid bilayers by atomic force microscopy*. Biophys. J., 68, 171-178.
- ◆ Hunte, C.; Von Jagow, G.; Schägger, H. (2003). *Membrane protein purification and crystallization. A practical guide*. Ed. Academic Press (2ª edición). San Diego, CA, USA.
- ◆ Ikeda, S. y Morris, V.J. (2002). *Fine-Stranded and Particulate Aggregates of Heat-Denatured Whey Proteins Visualized by Atomic Force Microscopy*. Biomacromolecules, 3, 382-389.
- ◆ Jass, J.; Tjärnhage, T.; Puu, G. (2000). *From Liposomes to Supported, Planar Bilayer Structures on Hydrophilic and Hydrophobic Surfaces: An Atomic Force Microscopy Study*. Biophys. J., 79, 3153-3163.
- ◆ Jones, M.N. y Chapman, D. (1995). *Micelles, Monolayers, and Biomembranes*. Ed. Wiley-Liss. Nueva York (USA).
- ◆ Jones, O.T.; Earnest, J.P.; McNamee, M.E. (1987). *In Biological Membranes*. J.B.C. Findlay and W.H. Evans, Eds. IRL. Oxford (UK).
- ◆ Jung, K.; Jung, H.; Kaback, H.R. (1994). *Dynamics of Lactose Permease of Escherichia coli Determined by Site-Directed Fluorescence Labeling*. Biochemistry, 33, 3980-3985.
- ◆ Jung, K.; Jung, H.; Wu, J.; Privé, G.G.; Kaback, H.R. (1993). *Use of site-directed fluorescence labelling to study proximity relationships in the lactose permease of Escherichia coli*. Biochemistry, 32, 12273-12278.
- ◆ Jung-Hsin, L. and Baumgaertner, A. (2000). *Stability of a Melittin Pore in a Lipid Bilayer: A Molecular Dynamics Study*. Biophys. J., 78, 1714-1724
- ◆ Kaback, H.R. (1986). *Active transport in Escherichia coli: from membrane to molecule*. *In physiology of membrane disorders*. (Ed. T.E. Andreoli, J.F. Hoffmann, D.D. Fanestil and S.G. Schultz). New York: Plenum Press.

- ◆ Kaback, H.R. (1989). *Molecular biology of active transport; from membranes to molecules to mechanism*. Harvey Lect., 83, 77-103.
- ◆ Kaback, H.R. (1990). *The Lac Permease of Escherichia coli: a prototypic energy-transducing membrane protein*. Biochim. Biophys. Acta, 1018, 160-162.
- ◆ Kaback, H.R. (1992). *In and out and up and down with the lactose permease of Escherichia coli*. In *bacterial and glucose transporters*. (ed. Friedlander and M. Mueckler). Int. Rev. Cytol. 137A. New York: Academic Press.
- ◆ Kaback, H.R. (1996). *Handbook of Biological Physics: Transport Processes in Eukariotic and Prokariotic Organisms* (Konings, W.N., Kaback, H.R., y Lolkema, J.S., Eds.). Ed. Elsevier Science. Amsterdam (Holanda).
- ◆ Kaback, H.R.; Sahin-Tóth, M. y Weinglass, A.B. (2001). *The kamikaze approach to membrane transport*. Nature reviews, 2, 610-620.
- ◆ Kaback, H.R.; Voss, J. y Wu, J. (1997). *Helix packing in polytopic membrane proteins: The lactose permease of Escherichia coli*. Curr. Opin. Struct. Biol., 7, 537-542.
- ◆ Kaback, H.R. y Wu, J. (1997). *From membrane to molecule to the third amino acid from the left with a membrane transport protein*. Q. Rev. Biophys., 30, 333-364.
- ◆ Kaback, H.R. y Wu, J. (1999). *What To Do While Awaiting Crystals of a Membrane Transport Protein and Thereafter*. Acc. Chem. Res., 32, 805-813.
- ◆ Kalb, E.; Frey, S.; Tamm, L.K. (1992). *Formation of supported planar bilayers by fusion of vesicles to supported phospholipid monolayers*. Biochim. Biophys. Acta, 1103, 307-312.
- ◆ Kessel, M.; Brennan, M.J.; Trus, B.L.; Bisher, M.E.; Steven, A.C. (1988). *Naturally crystalline porin in the outer membrane of Bordetella pertusis*. J. Mol. Biol., 203, 275-278.
- ◆ Keough, K.M.W. y Davis, P.J. (1979). *Gel to Liquid-Crystalline Phase Transitions in Water Dispersions of Saturated Mixed-Acid Phosphatidylcholines*. Biochemistry, 18, 1453-1459.
- ◆ Kiselyova, O.I.; Yaminsky, I.V.; Ivanov, Y.D.; Kanaeva, I.P.; Kuznetsov, V.Y.; Archakov, A.I. (1999). *AFM Study of Membrane Proteins, Cytochrome P450 2B4, and NADPH-Cytochrome P450 Reductase and Their Complex Formation*. Arch. Biochem. Biophys., 371, 1-7.

- ◆ Kittel, C. (1995). *Introduction to Solid State Physics*. 7ª Edición. Ed. Wiley. Nueva York (USA).
- ◆ Kluck, R.M.; Bossy-Wetzel, E.; Green, D.R. y Newmeyer, D.D. (1997). *The Release of Cytochrome c from Mitochondria: A Primary Site for Bcl-2 Regulation of Apoptosis*. Science, 275, 1132-1136.
- ◆ Kogan, M.J.; Dalcol, I.; Gorostiza, P.; López-Iglesias, C.; Pons, R.; Pons, M.; Sanz, F.; Giralt, D. (2002). *Supramolecular Properties of the Proline-Rich γ -Zein N-Terminal Domain*. Biophys. J., 83, 1194-1204.
- ◆ Kogan, M.J.; Dalcol, I.; Gorostiza, P.; López-Iglesias, C.; Pons, M.; Sanz, F.; Ludevid, D.; Giralt, D. (2001). *Self-Assembly of the Amphipathic Helix (VHLPPP)₈. A Mechanism for Zein Protein Body Formation*. J. Mol. Biol., 312, 907-913.
- ◆ Kragh-Hansen, U.; le Maire, M.; Møller, J.V. (1998). *The Mechanism of Detergent Solubilization of Liposomes and Protein-Containing Membranes*. Biophys. J., 75, 2932-2946.
- ◆ Kriech, M.A. y Conboy, J.C. (2003). *Label-Free Chiral Detection of Melittin Binding to a Membrane*. JACS Communications, 125, 1148-1149.
- ◆ Kühlbrandt, W. (1992). *Two-dimensional crystallization of membrane proteins*. Quart. Rev. Biophys., 25, 1-49.
- ◆ Ladokhin, A. y White, S.H. (1999). *Folding of Amphipathic α -Helices on Membranes: Energetics of Helix Formation by Melittin*. J. Mol. Biol., 285, 1363-1369.
- ◆ Ladokhin, A. y White, S.H. (2001). *“Detergent-like” permeabilization of anionic lipid vesicles by melittin*. Biochim. Biophys. Acta, 1514, 253-260.
- ◆ Lakowicz, J.R. (1999). *Principles of Fluorescence Spectroscopy*. Ed. Kluwer Academic/Plenum Publishers, 2ª Edición (Nueva York, USA).
- ◆ Landau, E.M. y Rosenbusch, J.P. (1996). *Lipidic cubic phases: A novel concept for the crystallization of membrane proteins*. Proc. Natl. Acad. Sci. USA, 93, 14532-14535.
- ◆ Langner, M. y Kubica, K. (1999). *The electrostatics of lipid surfaces*. Chem. Phys. Lipids, 101, 3-35.
- ◆ Lasic, D.D. (1987a). *A General Model of Vesicle Formation*. J. Theor. Biol., 124, 35-41.

- ◆ Lasic, D.D. (1987b). *The Spontaneous Formation of Unilamellar Vesicles*. J. Coll. Interf. Sci., 124, 428-435.
- ◆ Lasic, D.D. y Martin, F.J. (1991). *Preparation and the Mechanism of Liposome Formation*. J. Surface Sci. Technol., 7, 291-305.
- ◆ Le Coutre, J.; Narasimhan, L.R.; Patel, C.K.N.; Kaback, H.R. (1997). *The lipid bilayer determines helical tilt angle and function in lactose permease of Escherichia coli*. Proc. Natl. Acad. Sci. USA, 94, 10167-10171.
- ◆ Le Grimellec, Ch.; Giocondi, M.C.; Pujol, R.; Lesniewska, E. (2000). *Tapping Mode Atomic Force Microscopy allows the in situ Imaging of Fragile Membrane Structures and of Intact Cells Surface at High Resolution*. Single Mol., 1, 105-107.
- ◆ Le Maire, M.; Chambeil, P.; Møller, J.V. (2000). *Interaction of membrane proteins and lipids with solubilizing detergents*. Biochim. Biophys. Acta, 1508, 86-111.
- ◆ Lebeau, L.; Lanch, F.; Vénien-Bryan, C.; Renault, A.; Dietrich, J.; Jah, T.; Palmgren, M.G.; Kühlbrandt, W. and Mioskowski, C. (2001). *Two-Dimensional Crystallization of a Membrane Protein on a Detergent-resistant Lipid Monolayer*. J. Mol. Biol., 308, 639-647.
- ◆ Lee, A.G. (2003). *Lipid-protein interactions in biological membranes: a structural perspective*. Biochim. Biophys. Acta, 1612, 1-40.
- ◆ Lehninger, A.; Nelson, D.L.; Cox, M.M. (2001). *Principios de Bioquímica*. 3ª edición. Ed. Omega. Barcelona.
- ◆ Lehtonen, J.Y.A. y Kinnunen, P.K.J. (1997). *Evidence for Phospholipid Microdomain Formation in Liquid Crystalline Liposomes Reconstituted with Escherichia coli Lactose Permease*. Biophys. J., 72, 1247-1257.
- ◆ Lévy, D.; Chami, M.; Rigaud, J.-L. (2001). *Two-dimensional crystallization of membrane proteins: the lipid layer strategy*. FEBS Letters, 504, 187-193.
- ◆ Lévy, D.; Mosser, G.; Lambert, O. Moeck, G.S.; Bald, D.; Rigaud, J.L. (1999). *Two-Dimensional Crystallization on Lipid Layer: A Successful Approach for Membrane Proteins*. J. Struct. Biol., 127, 44-52.
- ◆ Li, X.-D.; Villa, A.; Gownley, C.; Kim, M.J.; Song, J.; Auer, M.; Wang, D.-N. (2001). *Monomeric state and ligand binding of recombinant GABA transporter from Escherichia coli*. FEBS Letters, 494, 165-169.

- ◆ Li, J. y Tooth, P. (1987). *Size and shape of the Escherichia coli lactose permease measured in filamentous arrays*. Biochemistry, 26, 4816-4823.
- ◆ Lichtenberg, D.; Opatowski, E.; Kozlov, M.M. (2000). *Phase boundaries in mixtures of membrane-forming amphiphiles and micelle-forming amphiphiles*. Biochim. Biophys. Acta, 1508, 1-19.
- ◆ Lichtenberg, D.; Robson, R. J.; Dennis, E. A. (1983). *Solubilization of phospholipids by detergents structural and kinetic aspects*. Biochim. Biophys. Acta, 737, 285-304.
- ◆ Litzinger, D.C. y Huang, L. (1992). *Phosphatidylethanolamine liposomes: drug delivery, gene transfer and immunodiagnostic applications*. Biochim. Biophys. Acta, 1113, 201-227.
- ◆ Lodish, H.; Berk, A.; Matsudaira, P.; Kaiser, C.A.; Krieger, M.; Scott, M.P.; Zipursky, L.; Darnell, J. (2003). *Molecular Cell Biology*. 5ª edición W.H. Freeman and Co., Publishers. Nueva York (USA).
- ◆ López, O.; Cócera, M.; Coderch, L.; Parra, J.L.; Barsukov, L.; de la Maza, A. (2001). *Octyl Glucoside-Mediated Solubilization and Reconstitution of Liposomes: Structural and Kinetic Aspects*. J. Phys. Chem. B, 105, 9879-9886.
- ◆ López, O.; Cócera, M.; Coderch, L.; Parra, J.L.; de la Maza, A. (2002). *Dodecyl maltoside as a solubilizing agent of stratum corneum lipid liposomes*. Colloid Polym. Sci., 280, 352-357.
- ◆ López, O.; Cócera, M.; Pons, R.; Azemar, N.; de la Maza, A. (1998). *Kinetic Studies of Liposome Solubilization by Sodium Dodecyl Sulfate Based on a Dynamic Light Scattering Technique*. Langmuir, 14, 4671-4674.
- ◆ Lyon, M.K. (1998). *Multiple crystal types reveal photosystem II to be a dimer*. Biochim. Biophys. Acta, 1364, 403-419.
- ◆ McConnell, H.M.; Watts, T.H.; Weis, R.M.; Brian, A.A. (1986). *Supported planar membranes in studies of cell-cell recognition in the immune system*. Biochim. Biophys. Acta, 864, 95-106.
- ◆ Merino, S. (2002). *Incorporació de proteïnes a models de membrana*. Diploma de Estudios Avanzados (DEA), Departamento de Fisicoquímica. Facultad de Farmacia, Universidad de Barcelona.

- ◆ Merino, S.; Domènech, Ò.; Díez, I.; Sanz, F.; Viñas, M.; Montero, M.T.; Hernández-Borrell, J. (2003). *Effects of Ciprofloxacin on Escherichia coli Lipids Bilayers: an Atomic Force Microscopy Study*. Langmuir, 19, 6922-6927.
- ◆ Merino, S.; Domènech, Ò.; Montero, M.T.; Hernández-Borrell, J. (2005a). *Atomic force microscopy study of the solid-supported proteolipid sheets formed with the protein membrane lactose permease of Escherichia coli*. Biosens. Bioelectron., 20, 1843-1846.
- ◆ Merino, S.; Domènech, Ò.; Viñas, M.; Montero, M.T.; Hernández-Borrell, J. (2005b). *Effects of Lactose Permease on the phospholipid environment in which it is reconstituted: a fluorescence and atomic force microscopy study*. Langmuir (in press).
- ◆ Merino, S.; Vázquez, J.L.; Domènech, Ò.; Berlanga, M.; Viñas, M.; Montero, M.T.; Hernández-Borrell, J. (2002). *Fluoroquinolone-Biomembrane Interaction at the DPPC/PG Lipid-Bilayer Interface*. Langmuir, 18, 3288-3292.
- ◆ Meyer, G. y Amer, N.M. (1988). *Novel optical approach to atomic force microscopy*. Appl. Phys. Lett., 53, 1045-1047.
- ◆ Mosser, G. (2001). *Two-dimensional crystallogenesis of transmembrane proteins*. Micron, 32, 517-540.
- ◆ Mou, J.; Czajkowsky, D.M.; Shao, Z. (1996). *Gramicidin A Aggregation in Supported Gel State Phosphatidylcholine Bilayers*. Biochemistry, 35, 3222-3226.
- ◆ Mueller, H.; Butt, H-J.; Bamberg, E. (2000). *Adsorption of Membrane-Associated Proteins to Lipid Bilayers Studied with an Atomic Force Microscope: Myelin Basic Protein and Cytochrome c*. J. Phys. Chem. B, 104, 4552-4559.
- ◆ Müller, D.J.; Amrein, M. y Engel, A. (1997). *Adsorption of Biological Molecules to a Solid Support for Scanning Probe Microscopy*. J. Struct. Biol., 119, 172-188.
- ◆ Müller, D.J. y Engel, A. (1997). *The Height of Biomolecules Measured with the Atomic Force Microscope Depends on Electrostatic Interactions*. Biophys. J., 73, 1633-1644.
- ◆ Müller, D.J. y Engel, A. (1999). *Voltaje and pH-induced Channel Closure of Porin OmpF Visualized by Atomic Force Microscopy*. J. Mol. Biol., 285, 1347-1351.

- ◆ Müller, D.J. y Engel, A. (2001). *Conformational changes, flexibilities and intramolecular forces observed on individual proteins using AFM*. RIKEN Review, 36, 29-31.
- ◆ Müller, D.J.; Fotiadis, D.; Scheuring, S.; Müller, S.A.; Engel, A. (1999). *Electrostatically Balanced Subnanometer Imaging of Biological Specimens by Atomic Force Microscope*. Biophys. J., 76, 1101-1111.
- ◆ Muresan, A.S. y Lee, K.Y.C. (2001). *Shape Evolution of Lipid Bilayer Patches Adsorbed on Mica: an Atomic Force Microscopy Study*. J. Phys. Chem. B, 105, 852-855.
- ◆ Nikaido, H. y Saier, M.H. Jr. (1992). *Transport proteins in bacteria: common themes in their design*. Science, 258, 936-942.
- ◆ Nikolelis, D.P.; Hianik, T.; Krull, U.J. (1999). *Biosensors based on thin lipid films and liposomes*. Electroanalysis, 11, 7-15.
- ◆ Nollert, P.; Kiefer, H.; Jähnig, F. (1995). *Lipid vesicle adsorption versus formation of planar bilayers solid surfaces*. Biophys. J., 69, 1447-1455.
- ◆ Oellerich, S.; Lecomte, S.; Paternostre, M.; Heimburg, T.; Hildebrandt, P. (2004). *Peripheral and Integral Binding of Cytochrome c to Phospholipids Vesicles*. J. Phys. Chem., 108, 3871-3878.
- ◆ Ollivon, M.; Lesieur, S.; Grabielle-Madellmont, C.; Paternostre, M. (2000). *Vesicle reconstitution from lipid-detergent mixed micelles*. Biochim. Biophys. Acta, 1508, 34-50.
- ◆ Paternostre, M.T.; Roux, M. Y Rigaud, J.L. (1988). *Mechanisms of Membrane Protein Insertion into Liposomes during Reconstitution Procedures Involving the Use of Detergents. 1. Solubilization of Large Unilamellar Liposomes (Prepared by Reverse-Phase Evaporation) by Triton X-100, Octyl Glucoside, and Sodium Cholate*. Biochemistry, 27, 2668-2677.
- ◆ Patra, S.K.; Alonso, A.; Goñi, F.M. (1998). *Detergent solubilization of phospholipid bilayers in the gel state: the role of polar and hydrophobic forces*. Biochim. Biophys. Acta, 1373, 112-118.
- ◆ Patzlaff, J.S.; Moeller, J.A.; Barry, B.A.; Brooker, R.J. (1998). *Fourier Transform infrared analysis of purified lactose permease: a monodisperse lactose permease*

preparation is stably folded, α -helical, and highly accessible to deuterium exchange. Biochemistry, 37, 15363-15375.

- ◆ Pereira, R. S. (2001). *Atomic force microscopy as a novel pharmacological tool.* Biochem. Pharmacol., 62, 975-983.
- ◆ Pramanik, A.; Thyberg, P.; Rigler, R. (2000). *Molecular interactions of peptides with phospholipid vesicle membranes as studied by fluorescence correlation spectroscopy.* Chem. Phys. Lipids, 104, 35-47.
- ◆ Puig, M.; Fusté, C. y Viñas, M. (1993). *Outer membrane proteins from Serratia marcescens.* Can. J. Microbiology, 39, 108-111.
- ◆ Puu, G. y Gustafson, I. (1997). *Planar lipid bilayers on solid supports from liposomes –factors of importance for kinetics and stability.* Biochim. Biophys. Acta, 1327, 149-161.
- ◆ Quina, F.H.; Hinze, W.L. (1999). *Surfactant Mediated Cloud Point Extraction: An Environmentally Bening Alternative Separation Approach.* Ind. Eng. Chem. Res., 38, 4150-4168.
- ◆ Rachel, R.; Engel, A.M.; Huber, R.; Stetter, K.O.; Baumeister, W. (1990). *A porin-type protein is the main constituent of the cell envelope of the ancestral eubacterium Thermogota maritima.* FEBS Letters, 262, 64-68.
- ◆ Reviakine, I.; Bergsma-Schutter, W. y Brisson, A. (1998). *Growth of Protein 2-D Crystals on Supported Planar Lipid Bilayers Imaged in Situ by AFM.* J. Struct. Biol., 121, 356-361.
- ◆ Reviakine, I. y Brisson, A. (2000). *Formation of Supported Phospholipid Bilayers from Unilamellar Vesicles Investigated by Atomic Force Microscope.* Langmuir, 16, 1806-1815.
- ◆ Reviakine, I. y Brisson, A. (2001). *Streptavidin 2D Crystals on Supported Phospholipid Bilayers: Toward Constructing Anchored Phospholipid Bilayers.* Langmuir, 17, 8293-8299.
- ◆ Rex, S. (1996). *Pore formation induced by the peptide melittin in different lipid vesicle membranes.* Biophys. Chem., 58, 75-85.
- ◆ Rigaud, J.L.; Chami, M.; Lambert, O.; Levy, D.; Ranck, J.L. (2000). *Use of detergents in two-dimensional crystallization of membrane proteins.* Biochim. Biophys. Acta, 1508, 112-128.

- ◆ Rigaud, J.L. y Levy, D. (2003). *Reconstitution of Membrane Proteins into Liposomes*. Method. Enzymol., 372, 65-86.
- ◆ Rigaud, J.L.; Levy, D.; Mosser, G.; Lambert, O. (1998). *Detergent removal by non-polar polystyrene beads. Applications to membrane protein reconstitution and two-dimensional crystallization*. Eur. Biophys. J., 27, 305-319.
- ◆ Rigaud, J.L.; Mosser, G.; Lacapere, J.J.; Olofsson, A.; Levy, D.; Ranck, J.L. (1997). *Bio-Beads: An Efficient Strategy for Two-Dimensional Crystallization of Membrane Proteins*. J. Struct. Biol., 118, 226-235.
- ◆ Rigaud, J.L.; Paternostre, M.T.; Bluzat, A. (1988). *Mechanisms of Membrane Protein Insertion into Liposomes during Reconstitution Procedures Involving the Use of Detergents. 2. Incorporation of the Light-Driven Proton Pump Bacteriorhodopsin*. Biochemistry, 27, 2677-2688.
- ◆ Rinia, H.A.; Snel, M.M.E.; van der Eerden, J.P.J.M.; de Kruijff, B. (2001). *Visualizing detergent resistant domains in model membranes with atomic force microscopy*. FEBS Letters, 501, 92-96.
- ◆ Rivetti, C.; Walker, C.; Bustamante, C. (1998). *Polymer chain statistics and conformational analysis of DNA molecules with bends or sections of different flexibility*. J. Mol. Biol., 280, 41-59.
- ◆ Robl, I.; Graßl, R.; Tanner, W.; Opekarová, M. (2000). *Properties of a reconstituted eukaryotic hexose/proton symporter solubilized by structurally related non-ionic detergents: specific requirement of phosphatidylcholine for permease stability*. Biochim. Biophys. Acta, 1463, 407-418.
- ◆ Ruiz España, Neus (2002). *Bases de la resistència als antibiòtics en Serratia marcescens: contribució de la proteïna Omp1*. Tesis doctoral. Mayo de 2002. Universidad de Barcelona.
- ◆ Ruiz, N.; Maier, E.; Andersen, C.; Benz, R.; Viñas, M. (2004a). *Molecular and functional characterisation of the Serratia marcescens outer membrane protein Omp1*. Biophys. Chem., 109, 215-227.
- ◆ Ruiz, N.; Merino, S. Viñas, M.; Domènech, Ò.; Montero, M.T.; Hernández-Borrell, J. (2004b). *Preliminary studies of the 2D crystallization of Omp1 of Serratia marcescens: observation by atomic force microscopy in native membranes environment and reconstituted in proteolipid sheets*. Biophys. Chem., 111, 1-7.

- ◆ Salamon, Z.; Tollin, G. (1997). *Interaction of Horse Heart Cytochrome c with Lipid Bilayer Membranes: Effects on Redox Potentials*. J. Bioenerg. Biomembr., 29, 211-221.
- ◆ Sánchez, M.; Frutos, G.; Cuesta, P.L. (1996). *Estadística y Matemáticas Aplicadas*. Ed. Síntesis. Madrid (España).
- ◆ Santos, N.C.; Ter-Ovanesyan, E.; Zasadzinski, J.A.; Prieto, M. y Castanho, M.A.R.B. (1998). *Filipin-Induced Lesions in Planar Phospholipid Bilayers Imaged by Atomic Force Microscopy*. Biophys. J., 75, 1869-1873.
- ◆ Scheuring, S.; Fotiadis, D.; Möller, C.; Müller, S.A.; Engel, A.; Müller, D.J. (2001). *Single Proteins Observed by Atomic Force Microscopy*. Single Mol., 2, 59-67.
- ◆ Scheuring, S.; Ringler, P.; Borgnia, M.; Stahlberg, H.; Müller, D.J.; Agre, P. And Engel, A. (1999). *High resolution AFM topographs of the Escherichia coli water channel aquaporin Z*. EMBO J., 18, 4981-4987.
- ◆ Schneider, S.; Folprecht, G.; Krohne, G.; Oberleithner, H. (1995). *Immunolocalization of lamins and nuclear pore complex proteins by atomic force microscopy*. Pflügers Arch., 430, 795-801.
- ◆ Schneider, S.W.; Lärmer, J.; Henderson, R.M.; Oberleithner, H. (1998). *Molecular weights of individual proteins correlate with molecular volumes measured by atomic force microscopy*. Pflügers Arch., 435, 362-367.
- ◆ Schirmer, T. (1998). *General and Specific Porins from Bacterial Outer Membranes*. J. Struct. Biol., 121, 101-109.
- ◆ Shaikh, S.R.; Dumauual, A.C.; Jencki, L.J.; Stillwell, W. (2001). *Lipid phase separation in phospholipid bilayers and monolayers modeling the plasma membrane*. Biochim. Biophys. Acta, 1512, 317-328.
- ◆ Shaikh, S.R.; Dumauual, A.C.; LoCassio, D.; Siddiqui, R.A.; Stillwell, W. (2003). *Acyl chain unsaturation in PEs modulates phase separation from lipid raft molecules*. Biochem. Biophys. Res. Com., 311, 793-796.
- ◆ Shinitzky, M. (1993). *Biomembranes. Physical Aspects*. Balaban Publishers. Weinheim (Alemania).
- ◆ Sikes, H.D.; Schwartz, D.K. (1997). *A temperature-dependent two-dimensional condensation transition during Langmuir-Blodgett deposition*. Langmuir, 13, 4704-4709.

- ◆ Simons, K. e Ikonen, E. (1997). *Functional rafts in cell membranes*. Nature, 387, 569-572.
- ◆ Singer, S.J. y Nicholson, G.L. (1972). *The fluid mosaic model of the structure of cell membranes*. Science, 175, 720-731.
- ◆ Singh, S. y Keller, D.J. (1990). *Atomic force microscopy of supported planar membrane bilayers*. Biophys. J., 60, 1401-1410.
- ◆ Söderlund, T.; Jutila, A.; Kinnunen, P.K.J. (1999). *Binding of Adriamycin to Liposomes as a Probe for Membrane Lateral Organization*. Biophys. J., 76, 896-907.
- ◆ Steinem, C.; Galla, H.J.; Janshoff, A. (2000). *Interaction of melittin with solid supported membranes*. Phys. Chem. Chem. Phys., 2, 4580-4585.
- ◆ Stewart, J.C.M. (1980). *Colorimetric Determination of Phospholipids with Ammonium Ferrothiocyanate*. Anal. Biochem., 104, 10-14.
- ◆ Subramanian, M.; Jutila, A. y Kinnunen, P.K.J. (1998). *Binding and Dissociation of Cytochrome c to and from Membranes Containing Acidic Phospholipids*. Biochemistry, 37, 1394-1402.
- ◆ Takei, J.; Remenyi, A. y Dempsey, C.E. (1999). *Generalised bilayer perturbation from peptide helix dimerisation at membrane surfaces: vesicle lysis induced by disulphide-dimerised melittin analogues*. FEBS Letters, 442, 11-14.
- ◆ Taylor, S.E.; Desbat, B.; Blaudez, D.; Jacobi, S.; Chi, L.F.; Fuchs, H. (2000). *Structure of a fusion peptide analogue at the air-water interface, determined from surface activity, infrared spectroscopy and scanning force microscopy*. Biophys. Chem., 87, 63-72.
- ◆ Terwillinger, T.C. y Eisenberg, D. (1982). *The structure of melittin*. J. Biol. Chem., 257, 6010-6015.
- ◆ Thalhammer, S.; Stark, R.W.; Müller, S.; Wienberg, J.; Heckl, W.M. (1997). *The atomic force microscope as a new microdissecting tool for the generation of genetic probes*. J. Struct. Biol., 119, 232-237.
- ◆ Tocanne, J.F. y Teissié, J. (1990). *Ionization of phospholipids and phospholipid-supported interfacial lateral diffusion of protons in membrane model systems*. Biochim. Biophys. Acta, 1031, 111-142.

- ◆ Tokumasu, F.; Jin, A.J.; Feigenson, G.W.; Dvorak, J.A. (2003a). *Atomic force microscopy of nanometric liposome adsorption and nanoscope membrane domain formation*. Ultramicroscopy, 97, 217-227.
- ◆ Tokumasu, F.; Jin, A.J.; Feigenson, G.W.; Dvorak, J.A. (2003b). *Nanoscope Lipid Domain Dynamics Revealed by Atomic Force Microscopy*. Biophys. J., 84, 2609-2618.
- ◆ Urbaneja, M.A.; Alonso, A.; González-Mañas, J.M.; Goñi, F.M.; Partearroyo, M.A.; Tribout, M.; Paredes, S. (1990). *Detergent solubilization of phospholipid vesicles. Effect of electric charge*. Biochem. J., 270, 305-308.
- ◆ USP-NF (The *United States Pharmacopeia. The National Formulary*) (2003). United States Pharmacopeial Convention, Inc. (Rockville, MD, USA).
- ◆ Vance, D.E. y Vance, J. (1996). *Biochemistry of Lipids, Lipoproteins and Membranes*. Ed. Elsevier Science. Amsterdam (Holanda).
- ◆ Vázquez, J.L.; Montero, M.T.; Merino, S.; Domènech, Ò.; Berlanga, M.; Viñas, M.; Hernández-Borrell, J. (2001). *Location and Nature of the Surface Membrane Binding Site of Ciprofloxacin: A Fluorescence Study*. Langmuir, 17, 1009-1014.
- ◆ Vázquez-Ibar, J.L.; Weinglass, A.B.; Kaback, H.R. (2002). *Engineering a terbium-binding site into an integral membrane protein for luminiscence energy transfer*. Proc. Natl. Acad. Sci. USA, 99, 3487-3492.
- ◆ Venkatesan, P. y Kaback, H.R. (1998). *The substrate-binding site in the lactose permease of Escherichia coli*. Proc. Natl. Acad. Sci. USA, 95, 9802-9807.
- ◆ Viitanen, P.; Newmann, M.J.; Foster, D.L.; Wilson, T.H.; Kaback, H.R. (1986). *Purification, reconstitution, and characterization of the lac permease of Escherichia coli*. Method. Enzymol., 125, 429-452.
- ◆ Voss, J.; Hubbell, W.L.; Hernández-Borrell, J.; Kaback, H.R. (1997). *Site-Directed Spin-Labeling of Transmembrane Domain VII and the 4B1 Antibody Epitope in the Lactose Permease of Escherichia coli*. Biochemistry, 36, 15055-15061.
- ◆ Wacker, M. y Schubert, R. (1998). *From mixed micelles to liposomes: Critical Steps during detergent removal by membrane dialysis*. Int. J. Pharm., 162, 171-175.
- ◆ Wang, D.-N.; Safferling, M.; Lemieux, M.J.; Griffith, H.; Chen, Y.; Li, X.-D. (2003). *Practical aspects of overexpressing bacterial secondary membrane transporters for structural studies*. Biochim. Biophys. Acta, 1610, 23-36.

- ◆ Wang, X.; Bogdanov, M.; Dohwan, W. (2002). *Topology of polytopic membrane protein subdomains is dictated by membrane phospholipid composition*. EMBO J., 21, 5673-5681.
- ◆ Weisenhorn, A.L.; Drake, B.; Prater, C.B.; Gould, S.A.C.; Hansma, P.K.; Ohnesorge, F.; Egger, M.; Heyn, S.P.; Gaub, H.E. (1990). *Immobilized proteins in buffer imaged at molecular resolution by atomic force microscopy*. Biophys. J., 58, 1251-1258.
- ◆ White, G.F.; Racher, K.I.; Lipski, A.; Hallett, F.R.; Wood, J.M. (2000). *Physical properties of liposomes and proteoliposomes prepared from Escherichia coli polar lipids*. Biochim. Biophys. Acta, 1468, 175-186.
- ◆ Wilson, K. y Goulding, K.H. (1986). *A Biologist's Guide to Principles and Techniques of Practical Biochemistry*. 3ª Edición. (Contemporary Biology). Ed. Edward Arnold. Baltimore (MD, USA).
- ◆ Wolin, C.D. y Kaback, H.R. (1999). *Estimating Loop-Helix Interfaces in a Polytopic Membrane Protein by Deletion Analysis*. Biochemistry, 38, 8590-8597.
- ◆ Worcester, D.L.; Miller, R.G.; Bryant, P.J. (1988). *Atomic force microscopy of purple membranes*. J. Microsc., 152, 817-821.
- ◆ Yang, J.; Liu, X.; Bhalla, K.; Kim, C.N.; Ibrado, A.M., Cai, J.; Peng, T.I.; Jones, D.P. y Wang, X. (1997). *Prevention of Apoptosis by Bcl-2: Release of Cytochrome c from Mitochondria Blocked*. Science, 275, 1129-1132.
- ◆ You, H.X.; Lau, J.M.; Zhang, S.; Yu, L. (2000). *Atomic force microscopy imaging of living cells: a preliminary study of the disruptive effect of the cantilever tip on cell morphology*. Ultramicroscopy, 82, 297-305.
- ◆ Zhao, M.; Zen, K.C.; Hernández-Borrell, J.; Altenbach, C.; Hubbell, W.L.; Kaback, H.R. (1999). *Nitroxide Scanning Electron Paramagnetic Resonance of Helices IV and V and the Intervening Loop in the Lactose Permease of Escherichia coli*. Biochemistry, 38, 15970-15977.
- ◆ Zhdanov, V.P. y Kasemo, B. (2001). *Comments on Rupture of Adsorbed Vesicles*. Langmuir, 17, 3518-3521.
- ◆ Zhuang, J.; Privé, G.G.; Werner, G.E.; Ringler, P.; Kaback, H.R. and Engel, A. (1999). *Two-Dimensional Crystallization of Escherichia coli Lactose Permease*. J. Struct. Biol., 125, 63-75.