

Lyotropic Liquid Crystals (LLCs)

LLCs are two-component systems where an *amphiphile* is dissolved in a solvent.

Thus, lyotropic mesophases are concentration and solvent dependent.

The amphiphilic compounds are characterised by two distinct moieties, a hydrophilic polar “head” and a hydrophobic “tail”.

Examples of these kinds of molecules are soaps (Figure-1a) and various phospholipids like those present in cell membranes (Figure-1b).

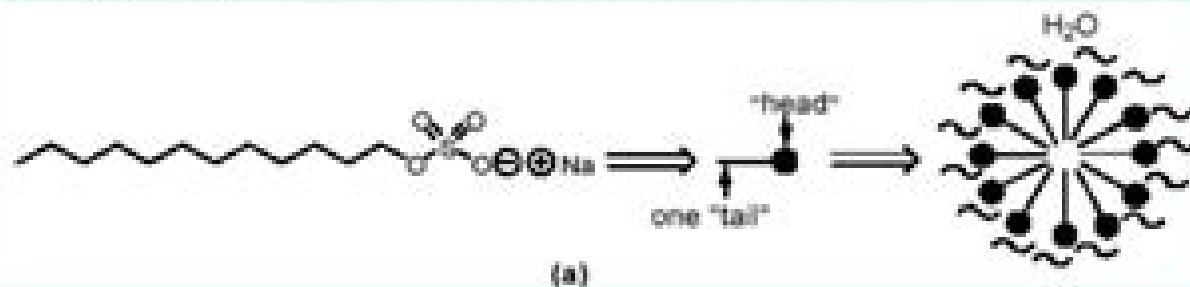


Figure-1a: Sodium dodecylsulfate (soap) forming micelles

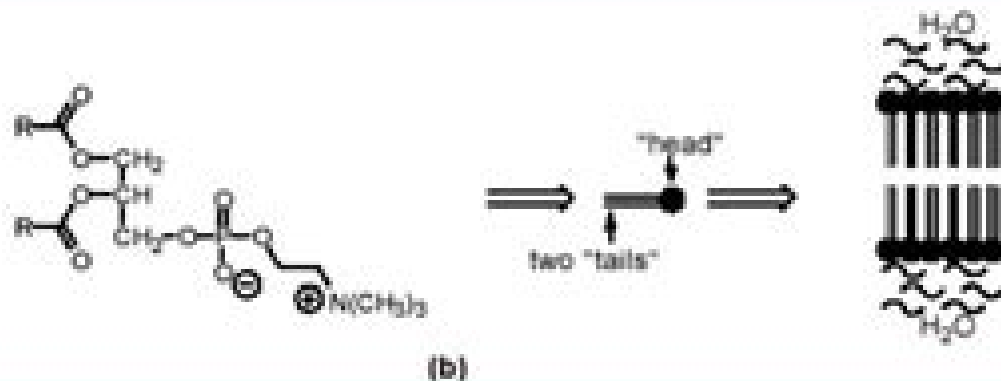
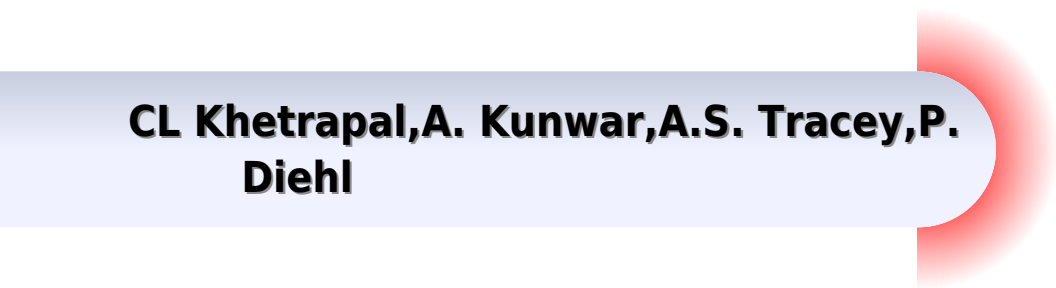


Figure-1b: Phospholipid (lecithine), present in cell membranes, in a bilayer lyotropic liquid crystal arrangement

Lyotropic Liquid Crystals And The Structure Of Biomembranes

**CL Khetrapal,A. Kunwar,A.S. Tracey,P.
Diehl**



Lyotropic Liquid Crystals And The Structure Of Biomembranes:

Lyotropic Liquid Crystals and the Structure of Biomembranes Stig Friberg, 1976 *Lyotropic Liquid Crystals and the Structure of Biomembranes* Stig E. Friberg, 1976 Liquid Crystals and Biological Structures Glenn Brown, 2012-12-02

Liquid Crystals Biological Structures covers analogies between biological structures and behavior of living cells to liquid crystalline structures and their behavior. It emphasizes that the physical state of the matter involved in life processes is to a great extent liquid crystalline. The first chapters discuss the physical chemical structural and optical properties of liquid crystals as well as the structure of the principal molecules associated with life systems. The core chapters cover selected cellular structures exhibiting liquid crystalline behavior to emphasize the nature of various cellular membranes from the cell membranes to the receptors and effectors. The book also considers differentiated organelles of the cell that are specialized for photoreception including chloroplasts for photosynthesis, the retinal photoreceptors of the eye and the rods and cones for visual excitation. This book is suited for students and bioscientists who are interested in the potential of the liquid crystalline state in exploring a variety of biological phenomena.

Geometric Methods In Elastic Theory Of Membranes In Liquid Crystal Phases (Second Edition) Zhanchun Tu, Zhong-can Ou-yang, Jixing Liu, Yuzhang Xie, 2017-11-29. The book is highly recommended as a reference for advanced graduate students and scholars involved in geometric analysis of membranes and other elastic surfaces. Valuable techniques may be learned from the book's model constructions and sequential derivations and presentations of governing equations. Detailed analysis and solutions enable the reader with an increased understanding of the physical characteristics of membranes in liquid crystal phases such as their preferred shapes. Contemporary Physics. This is the second edition of the book *Geometric Methods in Elastic Theory of Membranes in Liquid Crystal Phases* published by World Scientific in 1999. This book gives a comprehensive treatment of the conditions of mechanical equilibrium and the deformation of membranes as a surface problem in differential geometry. It is aimed at readers engaging in the field of investigation of the shape formation of membranes in liquid crystalline state with differential geometry. The material chosen in this book is mainly limited to analytical results. The main changes in this second edition are we add a chapter Chapter 4 to explain how to calculate variational problems on a surface with a free edge by using a new mathematical tool moving frame method and exterior differential forms and how to derive the shape equation and boundary conditions for open lipid membranes through this new method. In addition we include the recent concise work on chiral lipid membranes as a section in Chapter 5 and in Chapter 6 we mention some topics that we have not fully investigated but are also important to geometric theory of membrane elasticity.

LYOTROPIC LIQUID CRYSTALS AND THE STRUCTURE OF BIOMEMBRANES- SYMPOSIUM BASED ON THE 5TH INTERNATIONAL LIQUID CRYSTAL CONFERENCE PROCEEDINGS. , **Nuclear**

Magnetic Resonance Studies in Lyotropic Liquid Crystals CL Khetrapal, A. Kunwar, A.S. Tracey, P. Diehl, 2013-03-13 1

Lyotropic Liquid Crystals The class of compounds known as thermotropic liquid crystals has been widely utilized in basic

research and industry during recent years The properties of these materials are such that on heating from the solid to the isotropic liquid state phase transitions occur with the formation of one or more intermediate anisotropic liquids The unique and sometimes startling properties of these liquid crystals are the properties of pure compounds However there exists a second class of substances known as lyotropic liquid crystals which obtain their anisotropic properties from the mixing of two or more components One of the components is amphiphilic containing a polar head group generally ionic or zwitterionic attached to one or more long chain hydrocarbons the second component is usually water Lyotropic liquid crystals occur abundantly in nature particularly in all living systems As a consequence a bright future seems assured for studies on such systems Even now many of the properties of these systems are poorly understood It is the purpose of this review to consolidate the results obtained from nuclear magnetic resonance studies of such systems and to provide a coherent picture of the field Probably the most familiar example of a lyotropic liquid crystal is soap in water A common soap is sodium dodecylsulphate where an ionic group sulphate is attached to a hydrocarbon chain containing twelve carbons *Lyotropic Liquid Crystals and the Structure of Biomembranes. A Symposium Based on the 5. International Liquid Crystals Conference Proceedings, Stockholm 1974*, 1976 Douglas H. Everett, 1979-01-01 Reflecting the growing volume of published work in this field researchers will find this book an invaluable source of information on current methods and applications

Advances in Biomembranes and Lipid Self-Assembly, 2016-04-01 The Elsevier book series Advances in Biomembranes and Lipid Self Assembly previously titled Advances in Planar Lipid Bilayers and Liposomes provides a global platform for a broad community of experimental and theoretical researchers studying cell membranes lipid model membranes and lipid self assemblies from the micro to the nanoscale Planar lipid bilayers are widely studied due to their ubiquity in nature and find their application in the formulation of biomimetic model membranes and in the design of artificial dispersion of liposomes Moreover lipids self assemble into a wide range of other structures including micelles and the liquid crystalline hexagonal and cubic phases Consensus has been reached that curved membrane phases do play an important role in nature as well especially in dynamic processes such as vesicles fusion and cell communication Self assembled lipid structures have enormous potential as dynamic materials ranging from artificial lipid membranes to cell membranes from biosensing to controlled drug delivery from pharmaceutical formulations to novel food products to mention a few An assortment of chapters in this volume represents both original research as well as comprehensive reviews written by world leading experts and young researchers Surveys recent theoretical and experimental results on lipid micro and nanostructures Presents potential uses of applications like clinically relevant diagnostic and therapeutic procedures biotechnology pharmaceutical engineering and food products Provides both original research as well as comprehensive reviews written by world leading experts and young researchers Provides a global platform for a broad community of experimental and theoretical researchers studying cell membranes lipid model membranes and lipid self assemblies from the micro to the

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