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Johan M Thevelein, in *Advances in Applied Microbiology*, 2003. 1. Membrane Fluidity Membrane fluidity is enhanced by the presence of (poly)unsaturated fatty acids and, to some extent, sterols.

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Advances In Membrane Fluidity Membrane Interactions Of

Advances in Membrane Fluidity: Vols I-3 Edited by R.C. Aloia, C.C. Curtain and L.M. Gordon Alan R. Liss; New York, 1988 327 pages (Vol. I), 301 pages (Vol. 2), 369 pages (Vol. 3). Volume price \$120.00 These three volumes are the first in a new series devoted to membrane fluidity. The first volume

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Advances in membrane fluidity. (Journal, magazine, 1988

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[59-62]. Along with membrane fluidity, the structure and composition of the bilayer can be described by parameters such as rigidity, elasticity, and tensile strength, all of which make up the membrane physical property known as plasma membrane order [58, 63]. Various studies have suggested that an optimal level of membrane order is essential for normal myocyte function [57, 64].

Muscle membrane integrity in Duchenne muscular dystrophy

The Fluidity of a Lipid Bilayer Depends on Its Composition The fluidity of a cell membrane is important for membrane function and has to be maintained within certain limit. Just how fluid a lipid bilayer is at a given temperature depends on its phospholipid composition, in particular, on the nature of hydrocarbons tails.

The Lipid Bilayer Is a Two-Dimensional Fluid

MEMBRANE FLUIDITY AND CHOLESTASIS 363 ,I-hingomyelin molar ratio than tile sinusoidal do- nl<iln [4]. As expected from these differences in lipid ~<~mposition, the canalicular domain is significantly nlore rigid than the sinusoidal domain [3,5]. Membrane fluidity is known to influence the activi-

Membrane fluidity and cholestasis* - journal-of-hepatology.eu

Membrane fluidity and pressure resistance. The effect of membrane fluidity on pressure resistance has been examined previously by using a fatty acid auxotroph of *E. coli* in which membrane composition can be altered independently of temperature. In exponential-phase cells grown at 37°C, pressure resistance was lower in cells grown on elaidic acid than in cells grown on oleic or linoleic acid, confirming that pressure resistance increases with increasing membrane fluidity.

Role of Membrane Fluidity in Pressure Resistance of

Membrane fluidity and other properties of lipids are commonly assessed using various fluorogenic membrane probes and fluorescence polarization (FP) measurements. The basic principle is that alterations in lipid packing (e.g. temperature-dependent lipid phase transitions) change the mobility of a membrane-bound fluorophore.

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