

Appendix I. Glossary of Symbols and Abbreviations

A	area per molecule
A^E	excess area per molecule
A_{id}	ideal area per molecule
$[ANS]_b$	concentration of bond ANS
$[ANS]_{Free}$	concentration of free ANS
b	parameter related to cooperativity
C_i	maximum concentration of component i
C_s	compressibility modulus
g	gravity acceleration
G^E	Gibbs excess energy
h	depth
H_{II}	hexagonal II phase
k	association constant
l	length
L_α	crystalline state
L_β	gel state
n	number of binding sites
r	fluorescence anisotropy
t	thickness
T_m	transition temperature
w	width
χ	molar fraction
ΔA_{max}	maximum value of the increment of the area per molecule

$\Delta_{mix}G$	Gibbs energy of mixing
$\Delta_{mix}G^{id}$	ideal Gibbs energy of mixing
$\Delta\Psi$	variation of the surface potential
γ	surface tension
π	surface pressure
π_c	surface pressure at the collapse
θ	contact angle
ρ	density
2D	two-dimensional
AC	alternate current
ADP	adenosine diphosphate
AFC	antiferromagnetic coupled
AFM	atomic force microscopy
ANS	anilino-naphtalenesulfonic acid
ATP	adenosine triphosphate
BAM	Brewster angle microscopy
CL	cardiolipin
cmc	critical micelle concentration
Cys	cysteine
<i>cyt c</i>	cytochrome <i>c</i>
DNA	desoxiribonucleic acid
DPH	diphenil-hexatriene
DSC	differential scanning calorimetry
<i>E.coli</i>	<i>escherichia coli</i>
EM	electron microscopy
HIV	human immunodeficiency virus
IM	inner membrane
ISFET	ion-sensitive field effect transistor
LB	Langmuir Blodgett
LC	liquid condensed

LE	liquid expanded
LFM	lateral force microscopy
LPR	lipid to protein ratio
LPR _m	lipid to protein molar ratio
LUV	large unilamellar vesicles
MFM	magnetic force microscopy
MLV	multilamellar large vesicles
NMR	nuclear magnetic resonance
OM	outer membrane
PC	phosphocholine
PE	phosphoethanolamine
PI	phosphatidylinositol
POPC	palmitoyl-oleoyl-phosphocholine
POPE	palmitoyl-oleoyl-phosphoethanolamine
POPG	palmitoyl-oleoyl-phosphatidylglycerol
PTFE	polytetrafluoroethylene
R&D	research and development
RB	resuspension buffer
RNA	ribonucleic acid
SCM	scanning capacitance microscopy
SEM	scanning electron microscopy
SPB	surface planar bilayer
SPM	scanning probe microscopy
STM	scanning tunneling microscopy
SUV	small unilamellar vesicles
TEM	transmission electron microscopy
tRNA	transfer ribonucleic acid
UHF	ultra high frequency

