

## **LIST OF THE LUISI'S GROUP PAPERS 2000-2007**

Last revision: November 2007

### **2000**

333. **P.L. Luisi, P. Walde, M. Blocher, D. Liu**

*Research on the Origin of Life: Membrane-Assisted Polycondensations of Amino Acids and Peptides*

Chimia **54**, 52-53, 2000

334. **P. L. Luisi**

*The Relevance of Supramolecular Chemistry for the Origin of Life*

Advances in Supramolecular Chemistry **6**, 287-307, 2000

335. **P.R. Mittl, C. Deillon, D. Sargent, N. Liu, S. Klauser, R.M. Thomas, B. Gutte, M.G. Grutter**

*The retro-GCN4 leucine zipper sequence forms a stable three-dimensional structure*

PNAS **97**, 2562-2566, 2000

336. **M. Blocher, D. Liu, P.L. Luisi**

*Liposome-Assisted Selective Polycondensation of  $\alpha$ -Amino Acids and Peptides: the Case of Charged Liposomes*

Macromolecules **33**, 5787-5796, 2000

337. **A. Fischer, T. Oberholzer, P.L. Luisi**

*Giant vesicles as models to study the interactions between membranes and proteins*

Biochim. et Biophys. Acta **1467**, 177-188, 2000

338. **P.L. Luisi**

*L'assemblage des macromolécules*

La Recherche **336**, 24-29, 2000

339. **D. Berti, P.L. Luisi, P. Baglioni**

*Molecular recognition in supramolecular structures formed by phosphatidyl nucleosides-based amphiphiles*

Colloids and Surfaces A: Physico-Chem.Eng.Aspects **167**, 95-103, 2000

340. **S. Lang, F. Stuart, R.M. Thomas, J.W. Vrijbloed, J.A. Robinson**

*Analysis of Antibody A6 Binding to the Extracellular Interferon Receptor chain by Alanine-Scanning Mutagenesis with Phage Display.*

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341. **P.L. Luisi, P. Walde** (eds.)

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344. **A. Fischer, P.L. Luisi, T.Oberholzer, P. Walde**

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In: Giant Vesicles, Perspectives in Supramol. Chemistry (Luisi P.L., Walde P., eds), John Wiley & Sons Ltd., Chichester, 37-43, 2000

345. **A. Goto, A. Suzuki, H. Yoshioka, R. Goto, T. Imae, K. Yamazaki, P. Walde**

*Dynamic Aspects of Fatty Acid Vesicles: pH-induced Vesicle-Micelle Transition and Dilutioninduced Formation of Giant Vesicles*

In: Giant Vesicles, Perspectives in Supramol. Chemistry (Luisi P.L., Walde P., eds), John Wiley & Sons Ltd., Chichester, 261-270, 2000

346. **T.Oberholzer, A. Fischer**

*Microinjection of Macromolecules in Giant Vesicles Prepared by Electroformation*

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347. **P.L. Luisi**

*Intreccio di tempo ciclico e tempo lineare nel mondo biologico*

In: E il futuro già dato? Alfr.Guida Ed. Napoli 69-88, 2000

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348. **H.H. Zepik, E. Blöchliger, P.L. Luisi**

*A Chemical Model of Homeostasis*

Angew.Chemie Int.Ed. **40** No.1, 199-202, 2001

349. **J.W. Szostak, D.P. Bartel, P.L. Luisi**

*Synthesizing Life*

Nature **409**, 387-390, 2001

350. **M. Schuleit, P.L. Luisi**

*Enzyme Immobilization in Silica-Hardened Organogels*

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351. **N. Berclaz, M. Müller, P. Walde, P.L. Luisi**

*Growth and Transformation of Vesicles Studied by Ferritin Labeling and Cryotransmission Electron Microscopy*

J.Phys.Chem.B **105**, 1056-1064, 2001

352. **N. Berclaz, E. Blöchliger, M. Müller, P.L. Luisi**  
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353. **P.L. Luisi**  
*Are Micelles and Vesicles Chemical Equilibrium Systems?*  
J.Chem.Ed. **78**, 380-384, 2001
354. **R.M. Thomas, J.W. Vrijbloed, P.L. Luisi**  
*Towards Random Polypeptide Synthesis*  
Chimia **55** 114-118, 2001
355. **T.Hitz, M. Blocher, P. Walde, P.L. Luisi**  
*Stereoselectivity Aspects in the Condensation of Racemic NCA-Amino Acids in the presence and Absence of Liposomes*  
Macromolecules **34**, 2443-2449, 2001
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357. **M. Blocher, T. Hitz, P.L. Luisi**  
*Stereoselectivity in the Oligomerization of Racemic Tryptophan N-Carboxyanhydride (NCA-Trp) as Determined by Isotope Labeling and Mass Spectrometry*  
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358. **L.D. Schuler, P. Walde, P.L. Luisi, W.F. vanGunsteren**  
*Molecular Dynamics Simulation of n-dodecyl phosphate aggregate structures*  
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359. **H. Fukuda, A. Goto, H. Yoshioka, R. Goto, K. Morigaki, P. Walde**  
*Electron Spin Resonance Study of the pH-Induced Transformation of Micelles to Vesicles in an Aqueous Oleic Acid/Oleate System*  
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360. **P. Walde, S. Ichikawa**  
*Enzymes inside Lipid Vesicles: preparation, reactivity and Applications*  
Biomolecular Engineering **18**, 143-177, 2001
361. **F.E. Weber, G. Eyrich, K.W. Grätz, R. M. Thomas, F.E. Maly, H. F. Sailer**  
*Disulfide Bridge Conformers of Mature BMP Are Inhibitors for Heterotopic Ossification*  
Biochem. Biophys. Res. Comm. **286**, 554-558 2001
362. **T.B. Fitzpatrick, P. Killer, R.M. Thomas, I. Jelesarov, N. Amrhein, P. Macheroux**  
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363. **R.M. Thomas, D.J. Curtis**

*A Novel Software Application for the Study of Photoperiodic Cueing Mechanisms Underlying Circadian and Circannual Rhythms and Lunar-Periodic Modulations*

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364. **R.E. Smith, S. Burmaster, A.G. Glaros, J.D. Eick, P. Walde, E.L. Kostoryz, D.M. Yourtee**

*Aromatic dental monomers affect the activity of cholesterol esterase*

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365. **P.L. Luisi, T. Oberholzer**

*Origin of life on Earth: Molecular Biology in Liposomes as an Approach to the Minimal Cell*

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366. **K. Conde-Frieboes, E. Blöchliger**

*Synthesis of lipids on the micelle/water interface using inorganic phosphate and an alkene oxide*

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367. **Ch. Wurth, R.M. Thomas, G. Folkers, L. Scapozza**

*Folding and Self-assembly of Herpes Simplex Virus Tjype 1 Thymidine Kinase*

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368. **G. Zandomeneghi, P.L. Luisi, L. Mannina, A. Segre**

*NMR Study of Micelles Formed by Monoalkylphosphoryl Nucleosides*

Helvetica Chimica Acta, **84**, 3710-3725 2001

## 2002

369. **P. Walde, P.L. Luisi (Hrsg.)**

*Vom Ursprung des Lebens*

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370. **P.L. Luisi**

*Die Frage nach der Entstehung des Lebens auf der Erde aus der Sicht der molekularen Naturwissenschaften*

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371. **R.M. Thomas, A. Baici, M. Werder, G. Schulthess, H. Hauser**

*Kinetics and Mechanism of Long-Chain Fatty Acid Transport into Phosphatidylcholine Vesicles from Various Donor Systems*

Biochemistry, **41**, 1591-1601 2002

372. **M. Treyer, P. Walde, Th. Oberholzer**

*Permeability Enhancement of Lipid Vesicles to Nucleotides by Use of Sodium Cholate: Basic Studies and Application to an Enzyme-Catalyzed Reaction Occurring inside the Vesicles*

Langmuir, **18**, No. 4, 1043-1050, 2002

373. **A.V. Pietrini, P.L. Luisi**

*Circular dichroic properties and average dimensions of DNA-containing reverse micellar aggregates*

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374. **P.L. Luisi, Th. Oberholzer, A. Lazcano**

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375. **P.L. Luisi**

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Foundations of Chemistry, **4**, No. 3, 183-200 2002

376. **K. Morigaki, P. Walde**

*Giant Vesicle Formation from Oleic Acid/Sodium Oleate on Glass Surfaces Induced by Adsorbed Hydrocarbon Molecules*

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*Size Distribution of Spontaneously Formed Liposomes by the Alcohol Injection Method*

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*Some open questions about the origin of life*

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382. **T. Oberholzer**

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388. **P.L. Luisi**

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389. **Cheng, Z.; Luisi, P.L.**

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390. **Rasi, S.; Mavelli, F.; Luisi, P.L.**

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*Biotechnol. Bioeng.* **2004**, *85* (2), 222-233.

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430. **Murtas, G.**  
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