

CONFERENCE PROGRAMME

Sunday, 10 July 2016

16:00 – 19:00

Registration with welcome buffet

Monday, 11 July 2016

9:00 – 9:10

OPENING

Jiří Kotek (Director of the Institute)

Petr Štěpánek (Conference Chairman)

9:10 – 9:20

Presentation of IUPAC

Pavel Kratochvíl (*Czech Republic*)

LECTURE SESSION 1

Chaired by: Petr Štěpánek (Czech Republic)

9:20 – 10:00

Main lecture ML-01

Timothy P. Lodge (*USA*)

Dynamics of chain exchange in block copolymer micelles

10:00 – 10:20

Oral presentation OP-01

Ilja K. Voets (*Netherlands*)

Using supramolecular handles to orchestrate polymer self-assembly

10:20 – 10:40

Oral presentation OP-02

Jens Gaitzsch (*Switzerland*)

Polypeptoids and polyesters as alternatives to methacrylic self-assemblies

10:40 – 11:10

Coffee break

LECTURE SESSION 2

Chaired by: Seunghwan Lee (Denmark)

11:10 – 11:50

Main lecture ML-02

Jean-François Lutz (*France*)

About sequences, codes and polymers

- 11:50 – 12:10 Oral presentation OP-03
Marcus Müller (*Germany*)
Process-directed self-assembly of block copolymer materials
- 12:10 – 12:30 Oral presentation OP-04
Petr Štěpánek (*Czech Republic*)
Probing protein fouling and DNA complexation with biocompatible block copolymers

12:30 – 14:00

Lunch

LECTURE SESSION 3

Chaired by: Jiří Pánek (Czech Republic)

- 14:00 – 14:40 Main lecture ML-03
Sébastien Lecommandoux (*France*)
Biomimetic compartmentalized polymersomes from controlled self-assembly of block copolymers
- 14:40 – 15:00 Oral presentation OP-05
Dietmar Appelhans (*Germany*)
Light- and pH-responsive polymersomes for synthetic biology
- 15:00 – 15:20 Oral presentation OP-06
Hannes Gumz (*Germany*)
Smart polymersomes: Tunable pH-sensitivity and enzyme encapsulation

15:20 – 15:50

Coffee break

LECTURE SESSION 4

Chaired by: Elise Deniau (France)

- 15:50 – 16:20 Main lecture ML-04
Andreas Walther (*Germany*)
Self-assemblies with programmable lifetimes and autonomously dynamic materials

- 16:20 – 16:40 Oral presentation OP-07
Yingjie Liao (*France*)
Self-assembly of sugar-based block copolymers by solvent vapor annealing
- 16:40 – 17:00 Oral presentation OP-08
Samuel Lörcher (*Switzerland*)
Self-organization of polymeric nano-compartments or nano-reactor-origami

17:00 – 18:30 **Poster Session I: Posters P-01 – P-50**

Tuesday, 12 July 2016

LECTURE SESSION 5

Chaired by: Cornelia G. Palivan (Switzerland)

- 9:00 – 9:40 Main lecture ML-05
Christine M. Papadakis (*Germany*)
Physical hydrogels via charge driven self-organization of a triblock polyampholyte in dependence on charge asymmetry and ionic strength
- 9:40 – 10:00 Oral presentation OP-09
Sergey Filippov (*Czech Republic*)
Novel triphilic block copolymers based on poly(2-methyl-2-oxazoline)-block-poly(2-octyl-2-oxazoline) with different terminal perfluoroalkyl fragments
- 10:00 – 10:20 Oral presentation OP-10
Julien Bernard (*France*)
Highly ordered nanoporous films from supramolecular diblock copolymers with H-bonding junctions
- 10:20 – 10:40 Oral presentation OP-11
Arianna Bartolini (*Italy*)
Encapsulation of small molecules by poly(ethylene glycol)-*graft*-poly(vinyl acetate) unimer micelles

10:40 – 11:10

Coffee break

LECTURE SESSION 6

Chaired by: Martin Hrubý (Czech Republic)

- 11:10 – 11:50 Main lecture ML-06
Alexander V. Kabanov (USA)
Biomedical applications of nano-sized polyion complexes
- 11:50 – 12:10 Oral presentation OP-12
Cornelia G. Palivan (Switzerland)
Polymer membranes decorated with proteins: Smart self-assembled functional nanosystems
- 12:10 – 12:30 Oral presentation OP-13
Bo Örjan Gunnar Nyström (Norway)
Self-assembled structures of polymers for medical applications

12:30 – 14:00

Lunch

LECTURE SESSION 7

Chaired by: Marcus Müller (Germany)

- 14:00 – 14:40 Main lecture ML-07
Oleg Borisov (Russian Federation)
Design principles of block copolymer nanostructures
- 14:40 – 15:00 Oral presentation OP-14
Elena E. Dormidontova (USA)
Computer modeling of diblock copolymer self-assembly in solution: From dynamics to hydration
- 15:00 – 15:20 Oral presentation OP-15
Karel Procházka (Czech Republic)
Computer study of the electrostatic co-assembly in non-stoichiometric mixtures of block polyelectrolytes

15:20 – 15:50

Coffee break

LECTURE SESSION 8

Chaired by: Stergios Pispas (Greece)

- 15:50 – 16:10 Oral presentation OP-16
Peter Kořovan (*Czech Republic*)
Coupling between ionization and conformation in pH-responsive polyelectrolytes
- 16:10 – 16:30 Oral presentation OP-17
Remco Tuinier (*Netherlands*)
Prediction of polymeric self-assembly by self-consistent field computations
- 16:30 – 16:50 Oral presentation OP-18
Alexander A. Yaroslavov (*Russian Federation*)
Complexes of cationic polymers with anionic liposomes
- 16:50 – 18:30 **Poster Session II: Posters P-51 – P-99**

Wednesday, 13 July 2016

LECTURE SESSION 9

Chaired by: Ilja K. Voets (Netherlands)

- 9:00 – 9:40 Main lecture ML-08
Axel H. E. Müller (*Germany*)
Self-organized multicompartment nanostructures of ABC triblock terpolymers inspired by the cell
- 9:40 – 10:00 Oral presentation OP-19
Corinne Nardin (*France*)
Self-assembling biohybrid materials
- 10:00 – 10:20 Oral presentation OP-20
Stergios Pispas (*Greece*)
Effect of lysozyme complexation on the thermoresponsive behavior of PnBA-b-PNIPAM-COOH micellar aggregates

10:20 – 10:40 Oral presentation OP-21
Martin Hrubý (*Czech Republic*)
Seven years of radionuclide laboratory at the Institute of Macromolecular Chemistry AS CR – important achievements

10:40 – 11:10 *Coffee break*

LECTURE SESSION 10

Chaired by: Sergey Filippov (Czech Republic)

11:10 – 11:50 Main lecture ML-09
Jean-François Gérard (*France*)
Nanostructured thermosets from self-assembling processes

11:50 – 12:10 Oral presentation OP-22
Tomaz Einfalt (*Switzerland*)
Towards stimuli responsive artificial cell organelles by biomimetic engineering of complex membrane processes

12:10 – 12:30 Oral presentation OP-23
Yue Zhao (*Canada*)
CO₂-stimulated shape and morphological transitions of block copolymer assemblies

12:30 – 12:50 Oral presentation OP-24
Adem Levend Demirel (*Turkey*)
Self-assembly of poly(2-alkyl-2-oxazoline)s in aqueous solutions

12:50 – 14:15 *Lunch*

14:15 – 17:30 **Social programme (Guided tour in Prague)**

19:00 – 22:00 **Conference dinner**

Thursday, 14 July 2016

LECTURE SESSION 11

Chaired by: Corinne Nardin (France)

- 9:00 – 9:40 Main lecture ML-10
Walter Richtering (*Germany*)
Self-assembly of soft microgels in bulk and at interfaces
- 9:40 – 10:00 Oral presentation OP-25
Seunghwan Lee (*Denmark*)
Hydrophilic polymer brushes spontaneously formed as segregated from silicone matrix at the interface with water
- 10:00 – 10:20 Oral presentation OP-26
Sabrina Belbekhouche (*France*)
Promising tailor made hollow chitosan/poly(acrylic acid) nanoparticles for antibiotic therapy
- 10:20 – 10:40 Oral presentation OP-27
Patrick Lacroix-Desmazes (*France*)
Supramolecular self-assembly of double hydrophilic block copolymers and their use as structure-directing agents for the synthesis of drug-loaded ordered mesoporous silica

10:40 – 11:10

Coffee break

LECTURE SESSION 12

Chaired by: Bo Örjan Gunnar Nyström (Norway)

- 11:10 – 11:50 Main lecture ML-11
Matthias Ballauff (*Germany*)
Self-assembly of proteins and polyelectrolytes:
Comparing experiments to theory and simulations
- 11:50 – 12:10 Oral presentation OP-28
Christophe Schatz (*France*)
Stopped-flow study of macromolecular assemblies of polyelectrolytes

12:10 – 12:30 Oral presentation OP-29
Elise Deniau (*France*)
Self-organization of cationic pH- and thermo-responsive copolymers

12:30 – 14:00

Lunch

LECTURE SESSION 13

Chaired by: Karel Procházka (Czech Republic)

14:00 – 14:40 Main lecture ML-12
Spiros H. Anastasiadis (*Greece*)
Effects of spatial confinement on polymer structure and dynamics

14:40 – 15:00 Oral presentation OP-30
Wei Sun (*People's Republic of China*)
Exploration of selective decoration of Janus silica particles within polymeric patterned pore arrays

15:00 – 15:20 Oral presentation OP-31
Christian Rossner (*Germany*)
Planet-satellite nanostructures from star polymers and gold nanoparticles

15:20 – 15:40 Oral presentation OP-32
Roey Jacob Amir (*Israel*)
Spectrally active polymeric micelles

15:40 – 16:00 Oral presentation OP-33
Daniela Täuber (*Sweden*)
Two-dimensional polarization microscopy reveals polymer chain self-organization in thin films of conjugated polymers

16:00

Closing of the Meeting, FAREWELL

LIST OF POSTERS

P-01

S. M. Lee, J. Y. Lee, B. J. Kim, K. Y. Choi, K. M. Lee, **J. C. Lim**
(*Republic of Korea*)

Synthesis of polymeric biosurfactants from vegetable oils and characterization of interfacial properties for cosmetic products

P-02

F. Laffleur (*Austria*)

The next generation of mucoadhesive biopolymers

P-03

V. V. Vasilevskaya, A. A. Glagoleva (*Russian Federation*)

Intramolecular segregation within amphiphilic macromolecules: Cylinders & vesicle

P-04

N. Tiwari, P. van der Schoot (*Netherlands*)

Stochastic lag time in nucleated linear self-assembly

P-05

P. Fiurasek, T. van de Ven, A. Soldera (*Canada*)

Quebec Center for Advanced Materials (QCAM)

P-06

S. Gupta, P. Chokshi (*India*)

Interparticle interactions between diblock copolymer grafted nanosheets

P-07

D. C. Leite, T. Hellweg, **N. P. da Silveira** (*Brazil*)

Starch based nanoparticles

P-08

S. Schoettner, H.-J. Schaffrath, M. Gallei (*Germany*)

Preparation of porous functional films by microphase separation of block copolymers

P-09

Y.-W. Kim (*Republic of Korea*)

Micro-phase separation of renewable multiarm block copolymers for thermoplastic elastomers

P-10

E. Tomšík, N. Shevchenko, G. Pankova, T. Ukleev, A. Sel'kin
(*Czech Republic*)

Monodisperse polymeric particles: Self-assembling and luminescence properties

P-11

E. Tomšík, N. Gospodinova (*Czech Republic*)

Self-assembled highly ordered poly(3,4-ethylenedioxythiophene) films with high electrochemical capacitance and electrochromic efficiency

P-12

S. Schmidt, P. Vana (*Germany*)

Microphase separation of novel amphiphilic multiblock copolymers

P-13

E. Konishcheva, W. Meier (*Switzerland*)

PEG-b-PCL diblock copolymers: Optimization of the synthesis towards low PDI for targeted self-assembled structures

P-14

H.D.M. Follmann, O. N. Oliveira Jr, R. Silva, T. Asefa
(*United States of America*)

Hybrid hyperbranched polymer/mesoporous silica for prolonged drug delivery

P-15

J. Labuta, N. Velychkivska, L. Starovoytova, M. Hrubovský, H. Kouřilová,
L. Hanyková, I. Krakovský, J. Lang, S. Ishihara, J. P. Hill (*Japan*)

Phase separation in water soluble porphyrin/polymer hybrid systems

P-16

D. G. Angelescu, D. Caragheorgheopol (*Romania*)

Assembly of virus-like nanoparticles in presence of a flexible polyion.
A molecular dynamics simulation investigation

P-17

C. Cîrtoaje, C. Stan, E. Petrescu (*Romania*)

Cobalt ferrite nanoparticles in nematic liquid crystals

P-18

C. Cîrtoaje, E. Petrescu (*Romania*)

Aligned nanoparticles in nematic liquid crystals

P-19

N. A. Obratsova, S. V. Kurmaz (*Russian Federation*)

Amphiphilic branched copolymers of N-vinylpyrrolidone – a promising drug carriers

P-20

A. F. Khusnuriyalova, A. V. Sykhov, E. V. Gorbachuk, R. I. Vagizov, D. G. Yakhvarov (*Russian Federation*)

Electrochemical generation of transition metal nanoparticles (Fe, Co, Ni) for catalytic oligo- and polymerization

P-21

T.-H. Chen, Y.-T. Tseng, C.-H. Chen, H.-T. Chang (*Taiwan*)

Strategies for formation of various superstructures of carbon dots

P-22

P. Kratochvíl, **M. Netopilík** (*Czech Republic*)

The effect of nanoparticle non-uniformity on the ratio of radius of gyration and hydrodynamic radius

P-23

L. Nová, F. Uhlík, P. Košovan (*Czech Republic*)

Molecular simulations of flower-like micelles and micellar gels

P-24

L. Nová, P. Košovan, F. Uhlík (*Czech Republic*)

pH-responsive behaviour of linear weak polyelectrolyte

P-25

A. Kuriata, **A. Sikorski** (*Poland*)

The structure of cyclic multiblock copolymers

P-26

J. Gaitzsch, V. Chudasama, G. Battaglia, W. Meier (*Switzerland*)

Biomimetic polymersomes through a symbiosis of organic and polymer chemistry

P-27

H. J. Lee, D. E. Kim, **S. C. Lee** (*Republic of Korea*)

Mineralized assembled nanoparticles for nitric oxide-mediated cancer therapy

P-28

L. Suchá, Z. Limpouchová, K. Procházka (*Czech Republic*)

Conformational behaviour of polymer chains of different architectures in solvent mixtures. Dissipative particle dynamics study

P-29

N. Gospodinova, T. Skorokhoda, O. Kohut, E. Tomšík (*Czech Republic*)

Self-assembled liquide-crystalline and nano-crystalline structures of polyaniline: Spectral and electrochromic signatures

P-30

J. Choi, A. Kirakosyan, J. Im (*Republic of Korea*)

Self-assembly of polymer grafted nanoparticles for "matrix-free" polymer nanocomposites

P-31

K. Šindelka, Z. Limpouchová, L. Suchá, K. Procházka (*Czech Republic*)

Solubilisation of linear homopolymer chains into electrostatically co-assembled micelles. A dissipative particle dynamics study

P-32

C. D. Bösch, S. M. Langenegger, R. Häner (*Switzerland*)

Self-assembly of phenanthrene oligomers into nanotubes with light-harvesting properties

P-33

J.-C. Chang, E. Amstad (*Switzerland*)

Food-grade capsules based on microfluidic

P-34

R. Konefał, J. Spěváček (*Czech Republic*)

NMR study of two types of thermoresponsive polymer systems in aqueous media

P-35

R. Schlegel, H. Budde, U. Wendler, M. Bartke, M. Beiner (*Germany*)
Mechanical properties of multigraft copolymers prepared by an up-scalable synthesis approach

P-36

R. Schlegel, N. Mahmood, H. Budde, U. Wendler, M. Beiner (*Germany*)
Enhancement of tensile strength of multigraft copolymers - influence of blending and peroxide cross-linking

P-37

A. Zhigunov, P. Matějček, A. Kuklin, Yu. S. Kovalev (*Czech Republic*)
Aggregation behavior of sodium dodecaborate

P-38

O. Boytsova, A. Sadovnikov, A. J. Sutherland (*United Kingdom*)
Self-assembly formation of NH_4TiOF_3 mesocrystals: Control shape and sizes via length and ratio of poly(ethylene glycol)s

P-39

V. H. Fragal, E. H. Fragal, A. F. Rubira, **R. Silva** (*Brazil*)
Self-organization of two-dimensional nanopores and their use in cell growth and plasmonics

P-40

E. N. Govorun, A. V. Chertovich (*Russian Federation*)
Self-assembly of random multiblock copolymers: Effect of short block penetration into "alien" domains of the lamellar phase

P-41

J. Yan, J. Cao, B. He (*People's Republic of China*)
Nanocarriers self-assembled from functionalized polyethylenimine for anticancer drug delivery

P-42

Y. Zhang, X. Peng, S. Li, B. He (*People's Republic of China*)
Polymeric micelles with different topological architectures for drug delivery

P-43

K. J. Jang, S. E. Hong, R. K. R. Yoon (*Republic of Korea*)
Fabrication of flexible cellulose films containing marine organisms

P-44

X. Peng, Y. Zhang, Y. Chen, B. He (*People's Republic of China*)

Synthesis and self-assembly of biodegradable miktoarm star copolymers μ -PEG-PCL-PLLA

P-45

M. Peksa, S. Burrekaew, R. Schmid, F. Stallmach, **J. Lang** (*Czech Republic*)
NMR diffusion and relaxation techniques and MD simulation – powerful toolbox to describe binding and motions of the guest in an anisotropic metal-organic framework

P-46

A. V. Romanyuk, I. D. Grozdova, N. S. Melik-Nubarov (*Russian Federation*)
Pluronic-based chemiluminescent emulsion as a novel agent for antitumor therapy

P-47

A. V. Romanyuk, I. D. Grozdova, N. S. Melik-Nubarov, H. Frey (*Russian Federation*)

Control of cell viability and multidrug resistance by amphiphilic nonionic block copolymers

P-48

L. Xu, W. Gao, B. He (*People's Republic of China*)

Self-assembly of L-phenylalanine based dipeptide low molecular weight gel for chemotherapy

P-49

M. Marudova, I. Bodurov, S. Sotirov, Y. Uzunova, B. Pilicheva, A. Viraneva, I. Vlaeva, G. Exner, T. Yovcheva (*Bulgaria*)

Layer-by-layer self-assembly of polyelectrolyte multilayers on biodegradable substrates with respect to controlled drug release

P-50

L. Loukotová, M. Hrubý (*Czech Republic*)

Thermoresponsive β -glucan-based polymers for biomedical applications

P-51

M. Holubová, M. Hrubý (*Czech Republic*)

Nanospecies affecting amyloid formation

P-52

M. Rabyk, E. Deniau, L. Billon, O. Borisov, M. Hrubý, P. Štěpánek
(*Czech Republic*)

Novel amphiphilic block-gradient copolymers of styrene and
2-dimethylaminoethyl acrylate

P-53

A. S. Gubarev, N. V. Tsvetkov, E. V. Lebedeva, A. A. Lezov,
M. E. Mikhailova, L. I. Akhmadeeva, N. V. Kuchkina, E. S. Serkova,
Z. B. Shifrina (*Russian Federation*)

The conformational and hydrodynamic parameters of novel
hyperbranched pyridylphenylene polymers

P-54

N. V. Tsvetkov, A. A. Lezov, **A. S. Gubarev**, E. V. Ubyivovk, N. V. Girbasova,
A. Y. Bilibin (*Russian Federation*)

The study of argentum nanoparticles stabilized with modified PEG

P-55

L. Kratofil Krehula, S. Krehula, V. Gilja, A. Husak, M. Perlog, J. Stjepanović,
S. Šuka, Z. Hrnjak-Murđić (*Croatia*)

Synthesis, characterization and photocatalytic activity of polypyrrole/TiO₂
and polypyrrole/ZnO composites

P-56

A. Markina, V. Ivanov, P. Komarov, A. Khokhlov, S.-H. Tung
(*Russian Federation*)

Self-organization processes in lecithin-bile salt mixtures: Computer
simulation

P-57

A. Markina, V. Ivanov, P. Komarov, S. V. Larin, S. V. Lyulin
(*Russian Federation*)

Coarse-grained computer simulation of crystallization in polyimide melts

P-58

J. Tian, P. Vana (*Germany*)

Preparation and self-assembly of amphiphilic hybrid polymer/gold
nanoparticles at liquid-liquid interface

P-59

S. E. Hong, K. J. Jang, K. R. Yoon (*Republic of Korea*)

Formation of surface modified core/shell($\text{Fe}_3\text{O}_4@ \text{SiO}_2$) nanoparticles of CD(β -Cyclodextrin) for detect and separation of dyes

P-60

M. Icli Ozkut (*Turkey*)

Another step to zero band gap plastics: A soluble, low band gap bithiadiazole based electrochromic polymer

P-61

G. Gokce, B. Karabay, A. Cihaner, M. Icli Ozkut (*Turkey*)

Acid/ base doped/ dedoped low band gap polymer

P-62

W. T. Chuang, Y. M. Hsu, Y. S. Sun, U. S. Jeng (*Taiwan*)

Successive use of cylinder-forming dendron-jacketed block copolymers as templates for synthesis of nanostructured mesoporous TiO_2 /carbon films

P-63

J. Kim, J. H. An, J. Y. Bae, D. J. Chung, S. H. Kim (*Republic of Korea*)

Effect of epoxy structures on thermal conductivities of liquid crystalline epoxy/alumina composites

P-64

J. H. Ye, S. H. Choi (*Republic of Korea*)

Combustion characteristics of flame retardants based on poly(phosphoric acid ester)

P-65

A. V. Sybachin, O. V. Zaborova, T. J. Deming, A. A. Yaroslavov (*Russian Federation*)

Biodegradable nanocontainers composed of anionic liposomes and cationic polypeptide vesicles

P-66

X. Wang, Z. Limpouchová, M. Lísal, K. Procházka (*Czech Republic*)

Effect of solvent quality on the chromatographic separation of linear and H-shaped polymers: A Monte Carlo study

P-67

F. Delisavva, M. Uchman, J. Škvarla, E. Wozniak, E. Pavlova, M. Šlouf, V. Garamus, K. Procházka, M. Štěpánek (*Czech Republic*)

Influence of corona structure on binding of an ionic surfactant in oppositely charged amphiphilic polyelectrolyte micelles

P-68

T. Erşen Dudu, D. Alpaslan, N. Aktas (*Turkey*)

Environmentally friendly superabsorbent polymers for water-holding in agricultural lands and their application for environmental purposes

P-69

T. Erşen Dudu, **D. Alpaslan**, N. Aktas (*Turkey*)

Synthesis, characterization and possible agricultural application of nonionic p(DMAAm) hydrogel

P-70

T. Erşen Dudu, **D. Alpaslan**, N. Aktas (*Turkey*)

Characterization of cationic hydrogels and their removal of phenol red textile dyes from aqueous environment

P-71

E. Karpushkin, L. Lopatina, V. Sergeev (*Russian Federation*)

Decoration of DNA scaffold by gold nanoparticles formed in aqueous solutions

P-72

J. Pánek, E. Koziolová, P. Štěpánek, T. Etrych, O. Janoušková (*Czech Republic*)

Fluorescence lifetime imaging of polymer therapeutics

P-73

O. Sedláček, D. Jiráček, A. Galisová, M. Hrubý (*Czech Republic*)

Dual-responsive injectable polymer depots visualizable by ¹⁹F-MRI

P-74

E. Jäger, A. Höcherl, A. Jäger, M. Hrubý, O. Janoušková, R. Konefał, M. Netopilík, J. Pánek, M. Šlouf, K. Ulbrich, P. Štěpánek (*Czech Republic*)

Polymer nanoparticles with reactive oxygen species (ROS)-triggered cargo release for drug-delivery applications

P-75

A. Jäger, E. Jäger, M. Hrubý, R. Konefał, Z. Syrová, T. Mazel, D. Cmarko, I. Raška, P. Štěpánek (*Czech Republic*)

Pegylated polyester nanoparticles for delivery of paclitaxel: Synthesis, characterization and *in vitro* studies

P-76

M. Kownacki, S. M. Langenegger, R. Häner (*Switzerland*)

Efficient light-harvesting antenna through the intermediate donor-acceptor pyrene derivative

P-77

T. P. T. Dao, F. Fernandes, K. Ferji, M. Prieto, O. Sandre, **J. F. Le Meins** (*France*)

Controlling membrane structure of hybrid polymer/lipid giant unilamellar vesicles

P-78

T. P. T. Dao, F. Fernandes, K. Ferji, M. M. Er-Rafik, M. Schmutz, M. Prieto, O. Sandre, **J. F. Le Meins** (*France*)

Towards the control of nanodomain formation in large hybrid polymer/lipid unilamellar vesicles (LHV)

P-79

T.-H. Kim, E. Kim, C. Do, H. Ahn, Y.-S. Han (*Republic of Korea*)

Controllable self-assembly of block copolymers in aqueous solution: A small angle scattering study

P-80

P. Ai, H. Y. Xion (*People's Republic of China*)

Chiral separation of D,L-metoprolol through cellulose mixed membranes

P-81

Y. M. Bi, P. L. Xu, G. Tang, F. X. He, D. You, F. Lin (*People's Republic of China*)

Self-assembled micelles of poly(vinyl acetate)-b-poly(N-vinyl caprolactum) for temperature-triggered drug delivery

P-82

C. Yuan, Q. Ruan, S. M. Chi, P. Zheng, **Y. Zhao** (*People's Republic of China*)
Host-guest supramolecular system of RZK anti-HIV agent and β -cyclodextrin

P-83

S. Ehrmann, B. N. S. Thota, R. Haag (*Germany*)

Comparison of steroid- and alkyl-based dendritic amphiphiles for drug encapsulation

P-84

E. Altinkaya, Y. Seki, B. O. Gürses, O. C. Yılmaz, M. Sarıkanat, L. Çetin, O. Özdemir, İ. Şen, K. Sever (*Turkey*)

Effect of pDADMAc concentration on electromechanical performance of chitosan-based electroactive actuators

P-85

D. Zeini, J. Glover, B. Nyström (*Norway*)

Application of light activated lysine grafted dextran nanoparticles for targeted si-RNA delivery in neuroscience

P-86

A. Riabtseva, L. Kaberov, J. Kučka, M. Hrubý, S. Filippov (*Czech Republic*)

Novel pH-sensitive nanocontainers based on Eudragit/Brij98 mixture for oral drug delivery

P-87

R. K. Donato, E. Jäger, A. Jäger, A. Höcherl, V. Z. Bergamo,

A. M. Fuentefria, M. G. Raucci, L. Ambrosio, P. Štěpánek (*Brazil*)

Biodegradable and biocompatible polymer nanoparticles with fungal biofilm inhibition and mesenchymal stem cell growth capabilities

P-88

K. Z. Donato, R. K. Donato, M. Lavoragna, L. Ambrosio, H. S. Schrekker, R. S. Mauler (*Brazil*)

Biocompatible HAVOH/silica/ionic liquid hybrid's interface bonding

P-89

D. Aycan, N. Alemdar (*Turkey*)

Chitosan-based hydrogel with a high water uptake capacity for biomedical applications

P-90

T.-H. Chen, **W.-L. Tseng** (*Taiwan*)

Concentration-modulation of self-assembly of monodisperse carbon dots: Formation of high-brightness nanoaggregates with full-color emission

P-91

V. Mikhalevich, C. Draghici, J. Kowal, G. Gunkel-Grabole, W. Meier, C. G. Palivan (*Switzerland*)

"Active surfaces": Biomolecule - polymer membranes for efficient sensing of phenols

P-92

M. Garni, M. Lomora, T. Einfalt, F. Itel, A. Dinu, W. Meier, C. G. Palivan (*Switzerland*)

Biopores inside synthetic membranes of giant unilamellar vesicles (GUVS)

P-93

A. Gavrilov, A. Chertovich (*Russian Federation*)

Self-assembly in polyelectrolyte melts: Mesoscale simulation

P-94

O. V. Zaborova, S. Filippov, P. Chytil, T. Etrych (*Czech Republic*)

Self-assembly of liposomes coated with amphiphilic HPMA-based copolymers

P-95

T. Nejedlý, J. Trousil, M. Hrubý, Z. Walterová, M. Šlouf (*Czech Republic*)

Self-assembly of chloroxine into crystalline nanoparticles for Wilson's disease treatment

P-96

D. Bozoğlu, **D. Değer**, H. Deligöz, K. Ulutaş (*Turkey*)

Dielectric properties of silica aerogel/polyvinylidene fluoride (PVDF) composites

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Antituberculous rifampicin drug delivery system based on polyester nanoparticles