



Sébastien LECOMMANDOUX

Date of birth : June 7, 1970

Married, 2 childrens

LCPO – ENSCPB, 16 Avenue Pey Berland

33607 Pessac cedex, France

Tel : (33) 5 40 00 22 41; Fax : (33) 5 40 00 84 87

E-mail: lecommandoux@enscbp.fr

H factor 33, more than 4000 total citations, 690 in 2012 (Source Web of Science, Dec 2013)

Education and experience

- 2009 Full Professor PR1, IPB-ENSCBP – Université de Bordeaux
- 2005 Professor PR2, ENSCPB – Université de Bordeaux
- 2004 Habilitation (HDR), 26.11.2004 – Université de Bordeaux
- 1998 Assistant Professor at the Ecole Nationale Supérieure de Chimie et de Physique de Bordeaux (ENSCPB) and Laboratoire de Chimie des Polymères Organiques (LCPO-CNRS).
- 1998 Postdoctoral Fellowship at the University of Illinois at Urbana-Champaign in the group of Professor S.I. Stupp, UIUC-USA.
- 1996 PhD at the University of Bordeaux in the Centre de Recherche Paul Pascal (CRPP-CNRS) in the group of Professor F. Hardouin.

Awards

- Junior Member of the Institut Universitaire de France, IUF (2007)
- Invited Professor at the University of Louvain la Neuve, Belgium (2007)
- Invited professor at the University of Santiago de Compostella, Spain (2007)
- Bronze Medal Award of the CNRS (2004)
- Award for the best PhD thesis from French Chemical Society (1996)

Membership

French Polymer Society (GFP), French Chemical Society (SFC), American Chemical Society (ACS), Controlled Release Society (CRS), Groupe Thématique de Recherche sur la Vectorisation (GTRV).

Synopsis of the research activity and scientific production

- General domain of interest:
 - Therapeutic Nanotechnologies, Drug-Delivery, Biomaterials
 - Self-Assembly and SupraMacromolecular chemistry
 - Polypeptide and polysaccharide synthesis and self-assembly
 - Biomimicry for (bio)materials design
- More than 150 oral communications, including 120 on invitation.
- About 130 publications, 6 book chapters, 1 book edited, 2 patents (2 licenced).
- Defence of 15 PhD thesis.
- Coordinator or partner of 10 international and national research programs including 3 running projects (ANR, FP7-NMP, IUPAC, RNP-ESF) and several research contracts with industries in cosmetics and drug delivery fields (including L'Oreal, Firmenich, Debiopharm, Servier, Adocia).

Scientific animation

- 2010-current: **Adjunct Director** of the Laboratoire de Chimie des Polymères Organiques (LCPO, UMR CNRS 5629).
- 2005-current: **Director of the Research** at the Ecole Nationale Supérieure de Chimie, Biologie et Physique de Bordeaux (IPB-ENSCBP-University de Bordeaux).
- 2013-current: **Associate Editor** for Biomacromolecules (ACS)
- 2011-current: **Chair** of the Research Network Programme from ESF about "Precision Polymer Materials".
- 2006-current: **Expert** for the "Observatoire des Nano et Micro-Technologies" OMNT.
- Co-editor of "Block Copolymers in Nanosciences", M. Lazzari, G. Liu, S. Lecommandoux, Wiley-VCH (2006).
- Member of the International **Editorial Board** of several journals, including "Polymer Chemistry" (RSC), "Biomaterials Science" (RSC) "Polymers" (MDPI AG, Open Access Journal) and "Nanocontainers" (Versita).
- **Organizer for different conferences and symposium**, including recently: Symposium « Glycopeptide Polymers » at the 243rd ACS National Meeting (POLY), San Diego, USA (March 25-29, 2012) ; Symposium « Precision Polymer Materials » at the Fall 2012 MRS Meeting, Boston, USA (November 25-30, 2012) ; « Club Nanomatériaux pour les sciences du Vivant 2008 » (80 participants, national) and « Stimuli-Responsive Polymeric Materials 2008 » founded by the European Science Foundation (90 participants, international).
- **Referee** for the "National Science Fondation" (NSF, USA), the "International Center for Frontier Research in Chemistry" (FCR, Europe), the "Agence Nationale de la Recherche" (ANR, France), "Research Foundation Flanders" (FWO, Belgium), "Netherlands Organisation for Scientific Research" (NWO, Netherlands), ...
- **Reviewer** for: Nature Materials, Nature Chemistry, Science, Advanced Materials, Journal of the American Chemical Society, Angewandte Chemie, Macromolecules, Langmuir, Biomacromolecules, Polymer Chemistry, Soft Matter, ...
- **Referee** for about 20 PhD (national and international) and 4 Habilitation à diriger les Recherches (HDR).

PUBLICATIONS

- P1.** Physisorption of poly(ethylene oxide) as a robust tethering for AFM- based single-molecule force spectroscopy
N. WILLET, P. LUSSIS, N. GIAMBLANCO, C.-A. FUSTIN, B. UNTERAUER, A. EBNER, P. HINTERDORFER, S. LECOMMANDOUX, A.-S. DUWEZ
Chemical Sciences, Submitted (2013)
- P2.** Iminosugar-based glycopolypeptides: glycosidase inhibition with bioinspired glycoprotein analogue micellar self-assemblies
C. BONDUELLE, J. HUANG, T. MENA-BARRAGÁN, C. ORTIZ-MELLET, C. DECROOCQ, E. ETAMÉ, A. HEISE, P. COMPAIN, S. LECOMMANDOUX
Chem. Commun. In revision (2013)
- P3.** Polymeric micelles and vesicles: biological behavior evaluation using radiolabeling techniques
D. PSIMASA, H. OLIVEIRA, J. THEVENOT, S. LECOMMANDOUX, P. BOUZOTIS, A. D. VARVARIGOU, P. GEORGOULIAS, G. LOUDOS
Pharmaceutical development and technology, 19, 189-193 (2014)
- P4.** Cascade Reactions in Multicompartmentalized Polymersomes
R. J. R. W. PETERS, M. MARGUET, S. MARAIS, M. W. FRAAIJE, J. C. M. VAN HEST, S. LECOMMANDOUX
Angew. Chem. Int. Ed. (2013) ASAP DOI: 10.1002/anie.201308141
- P5.** Hybrid polymer/lipid vesicles: state of the art and future perspectives
J.-F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX, O. SANDRE
Materials Today 16, 397-402 (2013)

- P6.** Biocompatibility study of two diblock copolymeric nanoparticles for biomedical applications by in vitro toxicity testing
F. GOÑI-DE-CERIO; V. MARIANI, D. COHEN, L. MADI, J. THEVENOT, H. OLIVEIRA, C. UBOLDI, G. GIUDETTI, R. CORADEGHINI, E. GARANGER, F. ROSSI, M. PORTUGAL-COHEN, M. ORON, R. KORENSTEIN, S. LECOMMANDOUX, J. PONTI, B. SUÁREZ-MERINO, P. HEREDIA
Journal of Nanoparticle Research 15, 1-17 (2013)
- P7.** Polymersome Shape Transformation at the Nanoscale
R. SALVA, J.-F. LE MEINS, O. SANDRE, A. BRULET, M. SCHMUTZ, P. GUENOUN, S. LECOMMANDOUX
ACS Nano 7, 9298-9311 (2013)
- P8.** Nano-encapsulation of plitidepsin: in vivo pharmacokinetics, biodistribution and efficacy in a renal xenograft tumor model
H. OLIVEIRA, J. THEVENOT, E. GARANGER, E. IBARBOURE, P. CALVO, P. AVILES, M. J. GUILLEN, S. LECOMMANDOUX
Pharmaceutical Research (2013, in press)
- P9.** Synthetic glycopolypeptides as biomimetic analogues of natural glycoproteins
C. BONDUELLE, S. LECOMMANDOUX
Biomacromolecules 14, 2973-2983 (2013)
- P10.** Self-assembled core-shell micelles from peptide-*b*-polymer molecular chimeras towards structure-activity relationships
C. DRAPPIER, H. OLIVEIRA, O. SANDRE, E. IBARBOURE, S. COMBET, E. GARANGER, S. LECOMMANDOUX
Faraday Discussions 166, 83-100 (2013)
- P11.** Synthesis and self-assembly of glycopolypeptides: effect of topology and conformation
C. BONDUELLE, S. MAZZAFERRO, J. HUANG, O. LAMBERT, A. HEISE, S. LECOMMANDOUX
Faraday Discussions 166, 137-150 (2013)
- P12.** pH and redox responsive hydrogels and nanogels made from poly(2-ethyl-2-oxazoline)
C. LEGROS, M.-C. DE PAUW-GILLET, K. C. TAM, S. LECOMMANDOUX, D. TATON
Polymer Chemistry 4, 4801-4808 (2013)
- P13.** Magnetic Responsive Polymer Composite Materials
H. OLIVEIRA, J. THEVENOT, O. SANDRE, S. LECOMMANDOUX
Chem. Soc. Rev. 42, 7099-7116 (2013)
- P14.** Antibody-functionalized magnetic polymersomes: *in vivo* targeting and imaging of bone metastases using high resolution MRI
L. POURTAU, H. OLIVEIRA, J. THEVENOT, Y. WAN, A. BRISSON, O. SANDRE, S. MIRAUX, E. THIAUDIÈRE, S. LECOMMANDOUX
Advanced Healthcare Materials 2, 1420-1424 (2013)
- P15.** Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties
P. AROSIO, J. THEVENOT, T. ORLANDO, F. ORSINI, M. CORTI, M. MARIANI, L. BORDONALI, C. INNOCENTI, C. SANGREGORIO, H. OLIVEIRA, S. LECOMMANDOUX, A. LASCIALFARI, O. SANDRE
J. Mat. Chem. B 1, 5317-5328 (2013)
- P16.** Magnetic field triggered drug release from polymersomes for cancer therapeutics
H. OLIVEIRA, E. PÉREZ-ANDRÉS, J. THEVENOT, O. SANDRE, E. BERRA, S. LECOMMANDOUX
Journal of Controlled Release 169, 165-170 (2013)
- P17.** Biofunctional micellar nanoparticles from peptide-*b*-polymer chimeras
C. DRAPPIER, A.-L. WIROTIUS, K. BATHANY, E. IBARBOURE, O. CONDASSAMY, E. GARANGER, S. LECOMMANDOUX
Polymer Chemistry 4, 2011-2018 (2013).
- P18.** Multicompartmentalized polymeric systems: towards biomimetic cellular structure and function
M. MARGUET, C. BONDUELLE, S. LECOMMANDOUX
Chem. Soc. Rev. 42, 512-529 (2013). **Cover**
- P19.** Droplet microfluidics to prepare magnetic polymer vesicles and to confine the heat in magnetic hyperthermia
D. HABAULT, A. DERY, J. LENG, S. LECOMMANDOUX, J.-F. LE MEINS, O. SANDRE
IEEE transactions on magnetics 49, 182-190 (2013).
- P20.** Encapsulation of RNA-Polyelectrolyte Complexes with Amphiphilic Block Copolymers: Towards a New Self-Assembly Route
L. BUI, S. ABOU, E. IBARBOURE, N. GUIDOLIN, C. STAEDL, J.-J. TOULME, S. LECOMMANDOUX, C. SCHATZ
J. Am. Chem. Soc. 134, 20189-20196 (2012)
- P21.** Smart polymersomes for therapy and diagnosis: fast progress toward multifunctional biomimetic nanomedicines
H. OLIVEIRA, J. THEVENOT, S. LECOMMANDOUX

- WIRES Nanomed Nanobiotechnol** 4, 525-546 (2012)
- P22.** Synthesis and self-assembly of "tree-like" amphiphilic glycopolypeptides
C. BONDUELLE, J. HUANG, E. IBARBOURE, A. HEISE, S. LECOMMANDOUX
Chem. Commun. 48, 8353-8355 (2012).
- P23.** Towards Bioactive Nanovehicles Based on Protein Polymers
E. GARANGER, S. LECOMMANDOUX
Angew. Chem. Int. Ed., 51, 3060-3062 (2012).
- P24.** Biologically Active Polymersomes from Amphiphilic Glycopeptides
J. HUANG, C. BONDUELLE, J. THEVENOT, S. LECOMMANDOUX, A. HEISE
J. Am. Chem. Soc. 134 (1), 119-122 (2012)
- P25.** Hybrid polymer/lipid vesicles: fine control of the lipid and polymer distribution in the binary membrane
M. CHEMIN, P.-M. BRUN, S. LECOMMANDOUX, O. SANDRE, J.-F. LE MEINS
Soft Matter 8 (10), 2867 - 2874 (2012)
- P26.** Experimental and theoretical evaluation of nanodiamonds as pH triggered drug carriers
J.J. YAN, Y. GUO, A. ALTAWASHI, B. MOOSA, S. LECOMMANDOUX, N.M. KHASHAB
New Journal Of Chemistry 36(7),1479-1484 (2012)
- P27.** Polymersomes in "gelly" Polymersomes: towards structural cell mimicry
M. MARGUET, O. SANDRE, S. LECOMMANDOUX
Langmuir, 28(4), 2035-2043 (2012). **cover**
- P28.** Polymersomes in polymersomes : multiple loading and permeability tuning
M. MARGUET, L. EDEMBE, S. LECOMMANDOUX
Angew. Chem. Int. Ed., 51, 1173-1176 (2012). **Selected as "Hot Topic" in drug delivery by Wiley-VCH**
- P29.** The *in vivo* behavior and anti-tumor activity of doxorubicin loaded poly(γ -benzyl L-glutamate)-*b*-hyaluronan polymersomes in Ehrlich Ascites Tumor (EAT) bearing BalB/c mice
K.K. UPADHYAY, A.K. MISHRA, K. CHUTTANI, A. KAUL, C. SCHATZ, J.-F. LE MEINS, A. MISRA, S. LECOMMANDOUX
Nanomedecine: Nanotechnology, Biology and Medicine, 8(1), 71-80 (2012).
- P30.** Thermo-responsive polymer brush-functionalized magnetic manganite nanoparticles for remotely triggered drug release
S. LOUGUET, B. ROUSSEAU, R. EPHERRE, N. GUIDOLIN, G. GOGLIO, S. MORNET, E. DUGUET, S. LECOMMANDOUX, C. SCHATZ
Polymer Chemistry 3, 1408-1417 (2012). **cover**
- P31.** Control of the PEO Chain Conformation on Nanoparticles by Adsorption of PEO-block-Poly(L-lysine) Copolymers and its Significance on Colloidal Stability and Protein Repellency
S. LOUGUET, A.C. KUMAR, N. GUIDOLIN, G. SIGAUD, E. DUGUET, S. LECOMMANDOUX, C. SCHATZ.
Langmuir 27 (21), 12891–12901 (2011).
- P32.** Depletion Induced Vesicle-to-Micelle Transition from Self-Assembled Rod-Coil Diblock Copolymers with Spherical Magnetic Nanoparticles
W. AGUT, D. TATON, A. BRULET, O. SANDRE, S. LECOMMANDOUX
Soft Matter 7 (20), 9744-9750 (2011).
- P33.** A physico-chemical investigation of poly(ethylene oxide)-block-poly(L-lysine) copolymer adsorption onto silica nanoparticles
S. LOUGUET, A. C KUMAR, G. SIGAUD, E. DUGUET, S. LECOMMANDOUX, C. SCHATZ
J Col Int Sci., 359, 413-422 (2011).
- P34.** Block Copolymer Vesicle Permeability Measured by Osmotic Swelling and Shrinking
A. CARLSEN, N. GLASER, J.-F. LEMEINS, S. LECOMMANDOUX
Langmuir 27, 4884-4890 (2011).
- P35.** Recent trends in the tuning of polymersomes' membrane properties
J.-F. LEMEINS, O. SANDRE, S. LECOMMANDOUX
European Physic Journal E, Soft Matter and Biological Physics 34, 14 (2011).
- P36.** Manganite perovskite nanoparticles for self-controlled magnetic fluid hyperthermia: about the suitability of an aqueous combustion synthesis route
R. EPHERRE, E. DUGUET, S. MORNET, E. POLLERT, S. LOUGUET, S. LECOMMANDOUX, C. SCHATZ, G. GOGLIO
J. Mater. Chem. 21, 4393-4401 (2011).
- P37.** Doxorubicin Loaded Magnetic Polymersomes: Theranostic Nanocarriers for MR Imaging and Magneto-Chemotherapy
C. SANSON, O. DIOU, J. THEVENOT, E. IBARBOURE, A. SOUM, A. BRULET, S. MIRAUX, E. THIAUDIERE, S. TAN, A. BRISSON, V. DUPUIS, O. SANDRE, S. LECOMMANDOUX
ACS Nano, 5(2), 1122-1140 (2011).
- P38.** Mastering a Double Emulsion in a Simple Co-Flow Microfluidic to Generate Complex Polymersomes"
A. PERRO, C. NICOLET, J. ANGLY, S. LECOMMANDOUX, J.-F. LE MEINS, A. COLIN

- Langmuir**, 27 (14), 9034-9042 (2011). **Cover**
- P39.** Polysaccharide-containing Block Copolymers: Synthesis, Properties and Applications of an Emerging Family of Glyconjugates
C. SCHATZ, S. LECOMMANDOUX
Macromolecular Rapid Communications 31, 1664–1684 (2010).
- P40.** A simple method to achieve high doxorubicin loading in biodegradable polymersome
C. SANSON, C. SCHATZ, J.-F. LE MEINS, A. SOUM, J. THÉVENOT, E. GARANGER, S. LECOMMANDOUX
Journal of Controlled Release, 147, 428-435 (2010).
- P41.** pH and Temperature Responsive Polymeric Micelles and Polymersomes by Self-Assembly of Poly[2-(dimethylamino)ethyl methacrylate]-b-Poly(glutamic acid) Double Hydrophilic Block Copolymers
W. AGUT, A. BRULET, C. SCHATZ, D. TATON, S. LECOMMANDOUX
Langmuir 26, 10546-10554 (2010).
- P42.** Self-Assembly of Thermally Responsive Amphiphilic Diblock Copolypeptides into Spherical Micellar Nanoparticles
W. KIM, J. THÉVENOT, E. IBARBOURE, S. LECOMMANDOUX, E. L. CHAIKOF
Angewandte Chemie International Edition 49, 4257-4260 (2010).
- P43.** Controlled release of volatile fragrance molecules from PEO-b-PPO-b-PEO block copolymer micelles in ethanol-water mixtures
D. BERTHIER, I. SCHMIDT, W. FIEBER, C. SCHATZ, A. FURRER, K. WONG, S. LECOMMANDOUX
Langmuir 26, 7953-7961 (2010).
- P44.** Temperature Responsive Poly(trimethylene carbonate)-block-Poly(L-glutamic acid) copolymer: Polymersomes Fusion and Fission
C. SANSON, J.-F. LE MEINS, C. SCHATZ, A. SOUM, S. LECOMMANDOUX
Soft Matter 6, 1722-1730 (2010).
- P45.** In Vitro and In Vivo Evaluation of Docetaxel Loaded Biodegradable Polymersomes
K. K. UPADHYAY, A. N. BHATT, E. CASTRO, A. K. MISHRA, K. CHUTTANI, B. S. DWARAKANATH, C. SCHATZ, J.-F. LE MEINS, A. MISRA, S. LECOMMANDOUX
Macromolecular Bioscience 10, 503-512 (2010). **cover**
- P46.** The intracellular drug delivery and anti tumor activity of doxorubicin loaded poly(γ -benzyl L-glutamate)-b-hyaluronan polymersomes
K.K UPADHYAYA, A. N BHATT, A.K MISHRA, B. S. DWARAKANATH, S. JAIN, C. SCHATZ, J.-F. LE MEINS, A. FAROQUE, G. CHANDRAIAH, A. K JAIN , A. MISRAC, S. LECOMMANDOUX
Biomaterials 31, 3882-3892 (2010).
- P47.** Biocompatible and biodegradable poly(trimethylene carbonate)-b-poly(L-glutamic acid) polymersomes : size control and stability
C. SANSON, C. SCHATZ, J.-F. LE MEINS, A. BRÛLET, A. SOUM, S. LECOMMANDOUX
Langmuir 26, 2751-2760 (2010).
- P48.** Biomimetic Doxorubicin Loaded Polymersomes from Hyaluronan-block-Poly(γ -benzyl glutamate) Copolymers
K. KUMAR UPADHYAY, J.-F. LE MEINS, A. MISRA, P. VOISIN, V. BOUCHAUD, E. IBARBOURE, C. SCHATZ AND S. LECOMMANDOUX
Biomacromolecules 10, 2802-2808 (2009).
- P49.** Role of Block Copolymer Nanoconstructs in Cancer Therapy
K. K. UPADHYAY, H. G. AGRAWAL, C. UPADHYAY, C. SCHATZ, J.F. LE MEINS, A. MISRA, S. LECOMMANDOUX
Critical Reviews in Therapeutic Drug Carrier Systems 26(2), 157-205 (2009).
- P50.** Self-assembly of polypeptide-based block copolymer amphiphiles
A. CARLSEN, S. LECOMMANDOUX
Current Opinion in Colloid & Interface Science 14 (5), 329-339 (2009).
- P51.** Polysaccharide-block-polypeptide copolymer vesicles: towards synthetic viral capsids
C. SCHATZ, S. LOUGUET, J.-F. LE MEINS, S. LECOMMANDOUX
Angew. Chem. Int. Ed., 48, 2572 (2009)
- P52.** Micelles and polymersomes obtained by self-assembly of dextran and polystyrene based block copolymers
C. HOUGA, J. GIEMANSKA, S. LECOMMANDOUX, R. BORSALI, D. TATON, Y. GNANOU, J.-F. LE MEINS
Biomacromolecules 10, 32 (2009)
- P53.** Synthesis of Calibrated Poly(3,4-ethylenedioxythiophene) Latexes in Aqueous Dispersant Media
M. MUNTAZ, S. LECOMMANDOUX, E. CLOUTET, H. CRAMAIL
Langmuir 24, 11911 (2008)
- P54.** Synthesis of Block Copolypeptides by Click Chemistry
W. AGUT, R. AGNAOU, S. LECOMMANDOUX, D. TATON

- Macromol. Rapid Commun.** 29, 1147 (2008)
- P55.** Biodegradable Polycarbonate-*b*-polypeptide and Polyester-*b*-polypeptide Block Copolymers: Synthesis and Nanoparticle Formation Towards Biomaterials
M. LE HELLAYE, N. FORTIN, J. GUILLOTEAU, A. SOUM, S. LECOMMANDOUX, S.M. GUILLAUME
Biomacromolecules 9(7), 1924 (2008)
- P56.** Synthesis and self-assembly in water of coil-rod-coil amphiphilic block copolymers with central pi-conjugated sequence
A. DE CUENDIAS, E. IBARBOURE, S. LECOMMANDOUX, E. CLOUTET, H. GRAMAIL
J. Polym. Sci. Part A : Polym. Chem. 46, 4602 (2008)
- P57.** Combining sol-gel chemistry and millifluidic toward engineering microporous silica ceramic final sizes and shapes: an Integrative Chemistry approach
M. TACHIBANA, W. ENGL, P. PANIZZA, H. DELEUZE, S. LECOMMANDOUX, H. USHIKI, R. BACKOV
Chemical Engineering and Processing 47, 1323 (2008)
- P58.** Synthesis and Self-assembly in Bulk of Linear and Mikto-arm Star Block Copolymers Based on Polystyrene and Poly(glutamic acid)
J. BABIN, D. TATON, M. BRINKMANN, S. LECOMMANDOUX
Macromolecules 41, 1384 (2008)
- P59.** Toward a new lower limit for the minimum scattering vector on the very small angle neutron scattering spectrometer at Laboratoire Léon Brillouin
A. BRULET, V. THEVENOT, D. LAIREZ, S. LECOMMANDOUX, W. AGUT, S. P. ARMES, J. DU, S. DESERT
Journal of Applied Crystallography 41, 161 (2008)
- P60.** Thermo-Responsive Micelles From Jeffamine-*b*-poly(L-glutamic acid) Double Hydrophilic Block Copolymers
W. AGUT, A. BRULET, D. TATON, S. LECOMMANDOUX
Langmuir 23, 11526 (2007)
- P61.** A Versatile Synthetic Approach to Polypeptide Based Rod-Coil Block Copolymers by Click Chemistry
W. AGUT, D. TATON, S. LECOMMANDOUX
Macromolecules 40, 5653 (2007)
- P62.** Boundary lubricant films under shear : effect of roughness and adhesion
C. DRUMMOND, J. RODRIGUEZ-HERNANDEZ, S. LECOMMANDOUX, P. RICHETTI
Journal of Chemical Physics 126, 184906 (2007)
- P63.** Triblock copolymer lubricant films under shear: effect of molecular cross-linking
C. DRUMMOND, P. RICHETTI, J. RODRIGUEZ-HERNANDEZ, S. LECOMMANDOUX
Journal of Adhesion 83, 431-448 (2007)
- P64.** pH-Responsive micelles and vesicles nanocapsules based on polypeptide diblock copolymers
F. CHÉCOT, J. RODRIGUEZ-HERNANDEZ, Y. GNANOU, S. LECOMMANDOUX
Biomolecular Engineering 24, 81-85 (2007)
- P65.** Novel EDOT and fluorene-based electroluminescent « bricks » as materials for OLEDs
A. DE CUENDIAS, M. URIEN, S. LECOMMANDOUX, G. WANTZ, E. CLOUTET, H. GRAMAIL
Organic Letters 7(6), 576-585 (2006)
- P66.** Diblock copolymer stabilization of multi-wall carbon nanotubes in organic solvents and their use in composites
N. SLUZARENKO, B. HEURTEFEU, M. MAUGEY, C. ZAKRI, P. POULIN, S. LECOMMANDOUX
Carbon 44(15), 3207-3212 (2006)
- P67.** On the physics of block copolymers
S. LECOMMANDOUX, R. BORSALI
Polymer International 55(10), 1161-1168 (2006)
- P68.** Solid-state structure, organization and properties of peptide-synthetic hybrid block copolymers
H.-A. KLOK, S. LECOMMANDOUX
Advances in Polymer Science 202, 75-111(2006)
- P69.** Micelle Density Regulated by a Reversible Switch of Protein Secondary Structure
R.E. SALLACH, M. WEI, N. BISWAS, V. P. CONTICELLO, S. LECOMMANDOUX, R. A. DLUHY, E. CHAIKOF
Journal of the American Chemical Society 128(36), 12014-12019 (2006)
- P70.** Smart hybrid magnetic self-assembled micelles and hollow capsules
S. LECOMMANDOUX, O. SANDRE, F. CHECOT, R. PERZYNSKI
Progress in Solid State Chemistry 34(2-4), 171-179 (2006)
- P71.** Self-assemblies of magnetic nanoparticles and di-block copolymers: Magnetic micelles and vesicles
S. LECOMMANDOUX, O. SANDRE, F. CHECOT, J. RODRIGUEZ-HERNANDEZ, R. PERZYNSKI
Journal of Magnetism and Magnetic Materials 300(1), 71-74 (2006)

- P72.** Structure of polypeptide-based diblock copolymers in solution : stimuli-responsive vesicles and micelles
F. CHECOT, A. BRULET, J. OBERDISSE, Y. GNANOU, O. MONDAIN-MONVAL, S. LECOMMANDOUX
Langmuir, 21(10), 4308-4315 (2005)
- P73.** Towards an easy access to amphiphilic rod-coil miktoarm star copolymers
J. BABIN, C. LEROY, S. LECOMMANDOUX, R. BORSALI, Y. GNANOU, D. TATON
Chem. Comm., 15, 1993-1995 (2005)
- P74.** Toward "smart" nano-objects by self-assembly of block copolymers in solution
J. RODRIGUEZ-HERNANDEZ, F. CHECOT, Y. GNANOU, S. LECOMMANDOUX
Prog. Polym. Sci., 30(7), 712-724 (2005)
- P75.** Synthesis and self-assembly of polythiophene-based rod-coil and coil-rod-coil block copolymers
A. de CUENDIAS, M. LE HELLAYE, S. LECOMMANDOUX, E. CLOUTET, H. GRAMAIL
J. Mater. Chem., 15(32), 3264-3267 (2005)
- P76.** Self-assembled nanostructures from peptide-synthetic hybrid block copolymers : complex, stimuli-responsive rod-coil architectures
J. BABIN, J. RODRIGUEZ-HERNANDEZ, S. LECOMMANDOUX, H.-A. KLOK, M.-F. ACHARD
Faraday Discuss., 128, 179-192 (2005)
- P77.** Reversible inside-out micellization of pH-responsive and water-soluble vesicles based on polypeptide diblock copolymers
J. RODRIGUEZ-HERNANDEZ, S. LECOMMANDOUX
Journal of the American Chemical Society, 127(7), 2026-2027 (2005)
- P78.** Magnetic nano-composite micelles and vesicles
S. LECOMMANDOUX, O. SANDRE, F. CHECOT, J. RODRIGUEZ-HERNANDEZ, R. PERYNSKI
Advanced Materials, 17(6), 712-718 (2005)
- P79.** Preparation of shell cross-linked nano-objects from hybrid-peptide block copolymers
J. RODRIGUEZ-HERNANDEZ, J. BABIN, B. ZAPPONE, S. LECOMMANDOUX
Biomacromolecules, 6(4), 2213-2220 (2005)
- P80.** Microphase separation of linear and cyclic block copolymers poly(styrene-b-isoprene). 1-SAXS experiments
S. LECOMMANDOUX, R. BORSALI, M. SCHAPPACHER, A. DEFFIEUX, T. NARAYANAN, C. ROCHAS
Macromolecules, 37(5), 1843-1848 (2004)
- P81.** Synthesis and self-assembly properties of peptide-poly lactide block copolymers
S. CAILLOL, S. LECOMMANDOUX, A.-F. MINGOTAUD, M. SCHAPPACHER, A. SOUM, N. BRYSON, R. MEYRUEIX
Macromolecules, 36(4), 1118-1124 (2003)
- P82.** Small angle neutron scattering from diblock copolymer poly(styrene- d_8)-b-poly(γ -benzyl-L-glutamate) solutions : Rod-Coil to Coil-Coil transition
J. S. CRESPO, S. LECOMMANDOUX, R. BORSALI, H.-A. KLOK, V. SOLDI
Macromolecules, 36(4), 1253-1256 (2003)
- P83.** Synthesis and self-organization of Rod-Dendron and Dendron-Rod-Dendron molecules
S. LECOMMANDOUX, H.-A. KLOK, M. SAYAR, S. I. STUPP
J. Polym. Sci. Part A : Polym. Chem., 41(22), 3501-3518 (2003)
- P84.** From supramolecular polymersomes to stimuli-responsive nano-capsules based on poly(diene-b-peptide) diblock copolymers
F. CHECOT, S. LECOMMANDOUX, H.-A. KLOK, Y. GNANOU
European Physical Journal E : Soft Matter, 10(1), 25-35 (2003)
- P85.** Effect of dense grafting on the polystyrene brushes conformation : determination of the persistence length in solution
S. LECOMMANDOUX, F. CHECOT, R. BORSALI, M. SCHAPPACHER, A. DEFFIEUX, A. BRULET, J.P. COTTON
Macromolecules, 35(23), 8878-8881 (2002)
- P86.** Water soluble stimuli-responsive vesicles from peptide-based diblock copolymers
F. CHECOT, S. LECOMMANDOUX, Y. GNANOU, H.-A. KLOK
Angew. Chem. Int. Ed., 41(8), 1339-1343 (2002)
- P87.** Self-Assembly of Rod-Coil Diblock Oligomers Based on α -Helical Peptides
S. LECOMMANDOUX, M. F. ACHARD, J. F. LANGENWALTER, H.-A. KLOK
Macromolecules 34(26), 9100-9111 (2001)
- P88.** Supramolecular materials via block copolymer self-assembly
H.-A. KLOK, S. LECOMMANDOUX
Advanced Materials 13(16), 1217-1229 (2001)
- P89.** Scattering Properties of Rod-Coil and Once-Broken Rod Block Copolymers
R. BORSALI, S. LECOMMANDOUX, R. PECORA, H. BENOIT
Macromolecules 34(12), 4229-4234 (2001)
- P90.** Self-Assembly of Peptide-Based Diblock Oligomers

- H.-A. KLOK, J. F. LANGENWALTER, S. LECOMMANDOUX
Macromolecules 33(21), 7819-7826 (2000)
- P91.** Smectic C Structure and Backbone Confinement in Side-on Fixed Liquid Crystalline Polymers
 S. LECOMMANDOUX, L. NOIREZ, M. F. ACHARD, F. HARDOUIN
Macromolecules 33(1), 67-72 (2000)
- P92.** Strong anisotropic nematic order in liquid crystal polymers: a quasi-elastic neutron scattering study
 S. LECOMMANDOUX, F. HARDOUIN, A. J. DIANOUX
European Physical Journal B: Condensed Matter Physics 5(1), 79-85 (1998)
- P93.** Side-on fixed polysiloxanes and 'diluted' copolysiloxanes with nematic and smectic C phases
 S. LECOMMANDOUX, M. F. ACHARD, F. HARDOUIN
Liquid Crystals 25(1), 85-94 (1998)
- P94.** Side-on fixation in liquid crystalline polymers and dimesogens
 F. HARDOUIN, S. LECOMMANDOUX, M. F. ACHARD
Korea Polymer Journal 6(1), 28-33 (1998)
- P95.** What about the backbone conformation in nematic and smectic C phases of a "side-on" fixed LCP? A SANS study
 S. LECOMMANDOUX, L. NOIREZ, M. F. ACHARD, F. HARDOUIN
Journal de Physique II 7(10), 1417-1424 (1997)
- P96.** Relationship between structure and conformation in liquid-crystalline polymers
 F. HARDOUIN, S. LECOMMANDOUX
Macromolecular Symposia 118, 207-212 (1997)
- P97.** Backbone conformation study on "side-on fixed" liquid crystal polymers
 S. LECOMMANDOUX, L. NOIREZ, M. F. ACHARD, A. BRULET, J. P. COTTON, F. HARDOUIN
Physica B: Condensed Matter 234-236, 250-251 (1997)
- P98.** Are nematic side-on polymers totally extended? A SANS study
 S. LECOMMANDOUX, M. F. ACHARD, F. HARDOUIN, A. BRULET, J. P. COTTON
Liquid Crystals 22(5), 549-555 (1997)
- P99.** Thermodynamic and conformational study of side on/side end fixed liquid crystalline copolyacrylates
 S. LECOMMANDOUX, L. NOIREZ, M. F. ACHARD, F. HARDOUIN
Journal de Physique II 6(9), 1231-1242 (1996)
- P100.** Effect of the spacer and aliphatic tail length on the conformation of "side-on fixed" liquid crystal polyacrylates: "SANS" experiments
 S. LECOMMANDOUX, L. NOIREZ, H. RICHARD, M. F. ACHARD, C. STRAZIELLE, F. HARDOUIN
Journal de Physique II 6(2), 225-234 (1996)
- P101.** X-ray diffraction study of 'side-on fixed' homopolysiloxanes from nematic to smectic C phases
 M. F. ACHARD, S. LECOMMANDOUX, F. HARDOUIN,
Liquid Crystals 19(5), 581-587 (1995)
- P102.** Small angle neutron scattering experiments in smectic A and smectic B phases of diluted liquid crystal copolysiloxanes
 S. LECOMMANDOUX, L. NOIREZ, M. MAUZAC, F. HARDOUIN
Journal de Physique II 4(12), 2249-2255 (1994)

Conference Proceedings (Preprints)

- P103.** Biologically active polymersomes from amphiphilic glycopolypeptides
 C. BONDUELLE, J. HUANG, J. THEVENOT, A. HEISE, S. LECOMMANDOUX
 ACS Polym. Prepr. 2012- POLY San Diego, CA, USA (March 24-29, 2012)
- P104.** Self-assembly of amphiphilic polypeptides for the formation of polymersomes and hydrogels
 J. HUANG, C. BONDUELLE, S. LECOMMANDOUX, D. J. ADAMS, J. RAEBURN, A. HEISE
 ACS Polym. Prepr. 2012- POLY San Diego, CA, USA (March 24-29, 2012)
- P105.** Polypeptide-b-polysaccharide based polymersomes: Biomimicry and drug delivery
 S. LECOMMANDOUX
 ACS Polym. Prepr. 2012- PMSE San Diego, CA, USA (March 24-29, 2012)
- P106.** Multi-responsive polypeptide-based polymersomes
 S. LECOMMANDOUX
 ACS Polym. Prepr. 2012- PMSE San Diego, CA, USA (March 24-29, 2012)
- P107.** Nanotechnologies in cancerology: from fiction to reality
 S. LECOMMANDOUX
Bulletin du Cancer, 98, S17 (2011)
- P108.** Block-copolymer vesicles for siRNA-based cancer therapy
 H. OLIVEIRA, J. THEVENOT, L. BUI, C. SCHATZ, J. CVOROVICB, E. BERRA, S. LECOMMANDOUX
Bulletin du Cancer, 98, S61-S62 (2011)

- P109.** Targeted block-copolymer polymersomes for breast cancer theranostic
J. THEVENOT, H. OLIVEIRA, O. SANDRE, L. POUTAU, J. CVOROVIC, S. MIRAUX, E. THIADIERE, E. BERRA, S. LECOMMANDOUX
Bulletin du Cancer, 98, S65 (2011)
- P110.** Vectorisation and targeted delivery of therapeutic agents and inducible genes by heat sensitive nanoparticles under control of MRI-NanoBioImaging
K.G. PETRY, P. VOISIN, A. BRISSON, S. LECOMMANDOUX, E. DUGUET, J.M. FRANCONI, J.M. IDEE, C. BOIZIAU
IRBM 32 (3), 185-190 (2011)
- P111.** Biomimetic polymersomes from polypeptide-*b*-polysaccharide copolymers: one step towards synthetic virus
K.K. UPADHYAY, S. LOUGUET, L. BUI, C. SCHATZ, J.-F. LE MEINS, A. MISRA, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2011 – PMSE « Bio-Inspired Self-Assembly of Macromolecules » March 27-31, 2011, Anaheim, California, USA.
- P112.** Block copolymer coated magnetic nanoparticles as hybrid systems for combined imaging and therapy of brain diseases
S. LOUGUET, C. BOIZIAU, A. VEKRIS, C. SCHATZ, E. DUGUET, R. EPHERRE, S. MORNET, K.G. PETRY, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2011 – 43COLL. March 27-31, 2011, Anaheim, California, USA.
- P113.** Polymersomes from polypeptide-*b*-polysaccharide copolymers: biomimetic drug delivery nano-carriers
K.K. UPADHYAY, S. LOUGUET, A. MISRA, J.F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 – POLY « Synthetic and Biological Macromolecules for Emerging Nanotechnologies » San Francisco 21-25/03/2010
- P114.** Temperature responsive PTMC-*b*-PGA copolymers: Fusion and Fission in Polymersomes
C. SANSON, C. SCHATZ, J.-F. LE MEINS, A. SOUM, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 – PMSE « Nanostructured Materials from Supramolecular Interactions » San Francisco 21-25/03/2010
- P115.** Smart drug delivery nano-carriers from polypeptide-based polymersomes
C. SANSON, A. SOUM, J.F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 – PMSE « Nanostructured Materials from Supramolecular Interactions » San Francisco 21-25/03/2010
- P116.** pH and temperature responsive polymeric micelles and polymersomes from polypeptide-based double hydrophilic block copolymers
W. AGUT, A. BRULET, C. SCHATZ, D. TATON, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 - Poly « Nonconventional Functional Block Copolymers » San Francisco 21-25/03/2010
- P117.** Magnetic polymersomes for combined imaging and therapy
C. SANSON, O. DIOU, A. SOUM, O. SANDRE, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 - Poly « Engineering the Biology-Materials Interface » San Francisco 21-25/03/2010
- P118.** Aqueous solution properties of a new multiresponsive system based on polypeptide double hydrophilic block copolymer
W. AGUT, C. SHATZ, D. TATON, S. LECOMMANDOUX
A.C.S. Polym. Prepr. Philadelphia, US (2008)
- P119.** Click chemistry as a versatile synthetic tool to diblock copolymers based on polypeptides
W. AGUT, C. SHATZ, D. TATON, S. LECOMMANDOUX
A.C.S. Polym. Prepr. Philadelphia, US (2008)
- P120.** Responsive micelles and vesicles based on polypeptide diblock copolymers
F. CHECOT, J. RODRIGUEZ-HERNANDEZ, Y. GNANOU, S. LECOMMANDOUX
Polymers for Advanced Technologies 17 (9-10), 782-785 (2006).
- P121.** Synthesis and self-assembly of coil-rod-coil amphiphilic triblock copolymers constituted of a π -conjugated sequence
A. DE CUENDIAS, S. LECOMMANDOUX, E. CLOUTET, H. CRAMAIL
A.C.S. Polym. Prepr. (2006).
- P122.** Synthesis of poly(N-vinylcaprolactam)-block-poly(N-vinylpyrrolidone) diblock copolymer by RAFT and the formation of thermosensitive mesoglobules in water
R. DEVASIA, R. BORSALI, S. LECOMMANDOUX, R. BINDU, N. MOUGIN, Y. GNANOU
A.C.S. Polym. Prepr. 46(2), 448-449 (2005)
- P123.** Shape-persistent stimuli responsive vesicles from peptide-based diblock copolymers
F. CHECOT, S. LECOMMANDOUX, H. A. KLOK, Y. GNANOU
A.C.S. Polym. Prepr. 43(2), 453-455 (2002)
- P124.** Small angle neutrons and X-ray scattering from linear and star brush-like copolymer solutions
M. SCHAPPACHER, M. M. DE SOUZA LIMA, R. BORSALI, S. LECOMMANDOUX, A. DEFFIEUX, P.

- LINDNER, C. ROCHAS, F. CHECOT, D. MOINARD
A.C.S. Polym. Prepr. 43(1), 202 (2002)
- P125.** Small angle neutron scattering of diblock copolymer PS-PBLG : rod-coil to coil-coil transition
 J. S. CRESPO, S. LECOMMANDOUX, R. BORSALI, H.-A. KLOK, V. SOLDI
A.C.S. Polym. Prepr. 43(1) 225 (2002)
- P126.** Solution properties of diblock copolymers PS-b-PBLG : rod-coil to coil-coil transition
 J. S. CRESPO, S. LECOMMANDOUX, R. BORSALI, H.-A. KLOK, V. SOLDI
A.C.S. Polym. Prepr. 43(2), 456-457 (2002)
- P127.** Systematic study on the self-assembly of rod-coil diblock copolymers based on α -helical peptides
 S. LECOMMANDOUX, J. BABIN, F. CHECOT, H.-A. KLOK
A.C.S. Polym. Prepr. 43(2), 390-391 (2002)
- P128.** Thermoresponsive supramolecular morphologies from styrene-b-peptide diblock oligomers
 H.-A. KLOK, J. F. LANGENWALTER, M. F. ACHARD, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 42(2), 149-150 (2001)
- P129.** Hyperbranched and dendrimer-like architectures by chemical modification of polymer termini
 D. TATON, S. LECOMMANDOUX, M. SAULE, Y. GNANOU
A.C.S. Polym. Prepr. 41(2), 1527-1528 (2000)

“Grand Public” papers

- P130.** Polymersomes, smart and multi-functional nanocarriers : the promise of theranostics
 H. OLIVEIRA, D BACINELLO, C. BONDUELLE, M. CHEMIN, S. LECOMMANDOUX
Biotech International, June issue on NanoBiotechnology, 10-12 (2011)
- P131.** Nanosciences and nanotechnologies: health and environment
 P. BARBOUX, J.P. BONNET, A. DURAND, S. LECOMMANDOUX, J.F. LE MEINS, J.M. NEDELEC, T. PAUPORTE, F. PELLE, V. RAVAINÉ, C. SCHATZ
Actualité Chimique 338-339, 112-120 (2010)
- P132.** Copolymères à blocs à base de polypeptides : nanobiotechnologies supramacromoléculaires
 S. LECOMMANDOUX, Y. GNANOU
Bioforum France 1, 1-4 (2005)
- P133.** Scope of peptide-based self-assembled diblock copolymers in nanobiotechnologies
 Y. GNANOU, S. LECOMMANDOUX
Bioforum Europe 8(5), 38-40 (2004)

Book Chapters

- P134.** Dynamic Assembly of Block-Copolymers
 D. QUEMENER, A. DERATANI, S. LECOMMANDOUX
 Constitutional Dynamic Chemistry, Topics in Current Chemistry Volume 322, pp 165-192 (2011)
- P135.** Bulk Self-Assembly of linear hybrid polypeptide-based diblock and triblock copolymers
 S. LECOMMANDOUX
 “Complex Macromolecular Architectures: Synthesis, Characterization, and Self-Assembly”, A. Hiraro and N. Hadjichristidis Editors, Wiley-VCH, Weinheim (2011)
- P136.** Bulk and solution properties of peptide-polymer conjugates
 A. CARLSEN, H.-A. KLOK, S. LECOMMANDOUX
 “Biologically-Responsive Hybrid Biomaterials: A Reference for Material Scientists and Bioengineers”, E. Jabbari, A. Khademhosseini Editors, Artech House Boston, MA, USA (2010)
- P137.** Self-assembly of linear polypeptide-based block copolymers
 S. LECOMMANDOUX, H.-A. KLOK, H. SCHLAAD
 “Advanced Nanomaterials”, K.E. Geckeler and H. Nishide (Editors), Wiley-VCH, Weinheim (2010)
- P138.** Small Angle Neutron and x-rays Scattering from Brush-like Polymer Solutions
 S. LECOMMANDOUX, R. BORSALI, M. SCHAPPACHER, A. DEFFIEUX, P. LINDNER, C. ROCHAS
 “Structure and dynamics in Macromolecular Systems with Specific interactions”, 13, K Adachi et T. Sato Editors, Osaka University Press, Osaka (2005)
- P139.** Self-assembly of linear polypeptide-based block copolymers
 S. LECOMMANDOUX, H.-A. KLOK, H. SCHLAAD
 “Block copolymers in Nanosciences” M. Lazzari, G. Liu, S. Lecommandoux (Editors), Wiley-VCH, Weinheim (2006)

Book Edited

- P140.** Block copolymers in Nanosciences
M. LAZZARI, G. LIU, S. LECOMMANDOUX (EDITORS)
428 pages, Wiley-VCH, Weinheim (2006)

Patents

- P141.** Perfuming compositions and uses thereof
D. Berthier, S. Lecommandoux, I. Schmidt, C. Schatz
WO 2010/046832 A2 (Collaboration Firmenich, Switzerland)
- P142.** Copolymères à blocs à base de polysaccharide et de polypeptide, les vésicules constituées et leur utilisation
S. Lecommandoux, J.F. Le Meins, C. Schatz, K.K. Upadhyay
FR 2009/001263 and WO 2010/049611 A1

ORAL COMMUNICATIONS

(Limited to the one personally attended)

List of oral communications on invitation in (inter)national conferences

- C1.** Bio-inspired and bio-functional polymersomes
S. LECOMMANDOUX
International Conference on Nanosciences and Healthcare, C-Nano IdF, Paris, **France** (Nov. 8, **2013**)
- C2.** Biomimetic and compartmentalized self-assembled polymersomes
M. MARGUET, L. EDEMBE, R. SALVA, R. PETERS, JCM VAN HEST, P. GUENOUN, J.-F. LE MEINS, O. SANDRE, S. LECOMMANDOUX
Journées de la Fédération de la Matière Molle, Bordeaux, **France** (7-8 Nov. **2013**)
- C3.** Biomimetic and compartmentalized self-assembled polymersomes
S. LECOMMANDOUX
16ème Colloque sur les Systèmes anisotropes Auto-organisés (CFCL13) Strasbourg, **France** (3-6 sept. **2013**)
- C4.** Biomimetic polymersomes, a promising platform for combined therapy and imaging
H. OLIVEIRA, J. THÉVENOT, L. POURTAU, S. MIRAUX, E. THIAUDIÈRE, P. VOISIN, E. BERRA, O. SANDRE, S. LECOMMANDOUX
TRAIL Translational Imaging Meeting on « Image guided therapy and diagnosis », Bordeaux, **France** (Sept. 27, **2013**)
- C5.** Synthesis and Self-assembly of branched glycopolypeptides : effect of topology and conformation
C. BONDUELLE, S. MAZZAFERRO, J. HUANG, O. LAMBERT, A. HEISE, S. LECOMMANDOUX
Faraday Discussions 166, Self-assembly of biopolymers, Bristol, **UK** (September 16-18, **2013**)
- C6.** Polypeptide and polysaccharide based polymersomes for therapy and diagnosis
S. LECOMMANDOUX
226th ACS National Meeting, POLY, Session "Biomacromolecules for Therapeutics and Diagnostics Delivery", Indianapolis, **USA** (Sept. 8-12, **2013**)
- C7.** Biomimetic polypeptide and polysaccharide based bioconjugates
S. LECOMMANDOUX
226th ACS National Meeting, PMSE, Session "Bioconjugates and Hybrid Biomaterials", Indianapolis, **USA** (Sept. 8-12, **2013**)
- C8.** Bioactive nanoparticles from biohybrid block copolymers
C. DRAPPIER, C. BONDUELLE, K. UPADHYAY, E. GARANGER, S. LECOMMANDOUX
ESF P2M meeting, Precision Polymer Materials, Ghent, **Belgium** (August 25-28, **2013**)
- C9.** Biomimetic polymersomes for therapy and diagnosis
J. THEVENOT, H. OLIVEIRA, C. BONDUELLE, O. SANDRE, S. LECOMMANDOUX
NanoBio Europe 2013 Toulouse, **France** (10-12 June, **2013**)
- C10.** Biomimetic polymersomes for therapy and diagnosis
J. THEVENOT, H. OLIVEIRA, C. BONDUELLE, O. SANDRE, S. LECOMMANDOUX
E-MRS 2013, Symp. U: Design of multifunctional nano-objects for biomedical applications, Strasbourg, **France** (May 27-31, **2013**)
- C11.** Biomimetic and compartmentalized self-assembled polymersomes
S. LECOMMANDOUX
PolyColl 2013: Annual Meeting of the Division of Polymers, Colloids and Interfaces, Swiss Chemical Society, Basel, **Switzerland** (June 7, **2013**)

- C12.** Biomimetic polypeptide and polysaccharide based polymersomes for therapy and diagnosis
S. Lecommandoux
NanoBioMed 2013, Bilbao, **Spain** (23-26 April **2013**)
- C13.** Nanotechnology in cancer: from fiction to reality
S. LECOMMANDOUX
Pharmapack 2013, Targeted drug delivery via convergent technologies, Grande Halle de la Vilette, Paris, **France** (12-13 Feb. **2013**)
- C14.** Smart polypeptide-based copolymer assemblies
C. DRAPPIER, E. GARANGER, S. LECOMMANDOUX
MRS Fall meeting 2012, Symposium Q « Functional and responsive materials exploiting peptide and protein self-assembly », Boston, **USA** (November 25-30, **2012**)
- C15.** Polymer vesicles : biomimetism and membrane properties
M. MARGUET, L. EDEMBE, O. SANDRE, S. LECOMMANDOUX
MRS Fall meeting 2012, Symposium N « Precision polymer materials », Boston, **USA** (November 25-30, **2012**)
- C16.** Complex and Smart polymersomes : from biomimicry to drug delivery
S. LECOMMANDOUX
Seminars on Drug Discovery and Development, The Institute of Pharmaceutical Sciences, ETH Zurich, **Switzerland** (October 17, **2012**)
- C17.** Biomimetic glycoprotein assemblies for therapy and imaging
S. LECOMMANDOUX
10th France-Japan DDS 2012, « In memory to Professor Gérard Délérís » Bordeaux, **France** (10-13 October **2012**)
- C18.** Polymer Nanotechnology and life sciences
S. LECOMMANDOUX
Unv. Massachusetts (UMASS) – Univ. Bordeaux International Workshop on Polymers, Bordeaux, **France** (September 27, **2012**)
- C19.** Complex and smart polymersomes: from biomimicry to drug delivery
M. MARGUET, L. EDEMBE, O. SANDRE, J.F. LE MEINS, S. LECOMMANDOUX
2nd Symposium on Innovative Polymers for Controlled Delivery, Suzhou, **China** (September 11-14, **2012**)
- C20.** Biomimetic and ordered smart polymer-based vesicles
K. UPADHYAY, M. MARGUET, O. SANDRE, C. SCHATZ, J.F. LE MEINS, S. LECOMMANDOUX
International Conference on Liquid Crystals ILCC 2012, Mainz, **Germany** (August 19-24, **2012**)
- C21.** Smart polymersomes : from biomimicry to drug delivery
K. UPADHYAY, C. BONDUELLE, M. MARGUET, O. SANDRE, C. SCHATZ, J.F. LE MEINS, S. LECOMMANDOUX
Warwick Polymer Conference 2012, Warwick, **UK** (July 9-12, **2012**)
- C22.** Smart and complex polymersomes: from Biomimicry to Drug Delivery
S. LECOMMANDOUX
Polymer Chemistry 2012, Changchun, **China** (June 2-4, **2012**)
- C23.** Biomimetic Block Copolymer Assemblies towards smart biofunctional materials
O. SANDRE, C. SCHATZ, J.F. LE MEINS, E. GARANGER, S. LECOMMANDOUX
Bordeaux-Waterloo Workshop, Talence, **France** (May 23-25, **2012**)
- C24.** Polymersomes in Polymersomes: from Biomimicry to Drug Delivery
M. MARGUET, L. EDEMBE, O. SANDRE, S. LECOMMANDOUX
Polymers in Dispersed Media PDM 2012, Lyon, **France** (April 16-19, **2012**)
- C25.** Multi-Responsive Polypeptide based polymersomes
S. LECOMMANDOUX
243rd ACS National Meeting, PMSE « New Frontiers in Stimuli-Responsive Supramolecular Assemblies », San Diego, **USA** (March 25-29, **2012**)
- C26.** Polypeptide-*b*-polysaccharide based polymersomes: Biomimicry and drug delivery
C. BONDUELLE, K. UPADHYAY, C. SCHATZ, J.F. LE MEINS, S. LECOMMANDOUX
243rd ACS National Meeting, POLY « Glycopeptide Polymers », San Diego, **USA** (March 25-29, **2012**)
- C27.** Biomimetic block copolymer vesicles and their use for therapy and imaging
S. LECOMMANDOUX
8th World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology, Istanbul, **Turkey** (March 19-22 **2012**)
- C28.** Polymersomes et Théranostique...et ... biomimétisme!
S. LECOMMANDOUX
Colloque de la Société de Biologie: Journée Claude Bernard – Académie de Médecine « Les Nanomédicaments: réalités et perspectives », **France** (November 16, **2011**)
- C29.** Biomimetic Self-Assembled Block Copolymer Vesicles for Combined Cancer Therapy and Diagnosis

- S. LECOMMANDOUX, O. SANDRE, J. THEVENOT, H. DE OLIVEIRA
Polymers for Advanced Technologies, Lodz, **Poland** (October 2-5, **2011**)
- C30.** Polymer Nanotechnology for Life Sciences
S. LECOMMANDOUX
French-Texan Nanomedicine Workshop, Houston, **USA** (August 29-30, **2011**)
- C31.** Magnetic polymersomes for theranostics in cancer
S. LECOMMANDOUX
Theranostics for Personalised Medicine, Dexter House, London, **UK** (18-19 May **2011**)
- C32.** Polysaccharide-b-polypeptide based polymersomes for therapeutic applications
K.K.UPADHYAY, S. LOUGUET, L. BUI, P. VOISIN, A. MISRA, J.F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX
ACS 242st National Meeting, Division of Carbohydrate Chemistry – Session: Carbohydrate-Based Materials: Polymers, Nanoparticles, Surfaces, Dendrimers (March 27-31, **2011**)
- C33.** Polysaccharide-b-polypeptide based polymersomes for therapeutic applications
K.K. UPADHYAY, S. LOUGUET, L. BUI, C. SCHATZ, J.-F. LE MEINS, A. MISRA, S. LECOMMANDOUX
ACS 241st National Meeting, CARB « Carbohydrate-Based Materials: Polymers, Nanoparticles, Surfaces, Dendrimers and Hydrogels », Anaheim, California, **USA** (March 27-31, **2011**)
- C34.** Biomimetic polymersomes from polypeptide-*b*-polysaccharide copolymers: one step towards synthetic virus
K.K. UPADHYAY, S. LOUGUET, L. BUI, C. SCHATZ, J.-F. LE MEINS, A. MISRA, S. LECOMMANDOUX
ACS 241st National Meeting, PMSE « Bio-Inspired Self-Assembly of Macromolecules », Anaheim, California, **USA** (March 27-31, **2011**)
- C35.** Magnetic polymersomes for therapy and imaging
C. SANSON, O. DIOU, J. THEVENOT, E. IBARBOURE, A. SOUM, A. BRULET, S. MIRAUX, E. THIAUDIERE, A. BRISSON, O. SANDRE, S. LECOMMANDOUX
RSC Biomaterials Chemistry Group, 6th Annual Meeting, Arden House, University of Warwick, **UK** (January 11th, **2011**)
- C36.** Multi-functional biomimetic polymersomes for biomedical applications
S. LECOMMANDOUX
8th Hellenic Polymer Society Symposium Honoring Professor Nikos Hadjichristidis. Hersonissos, Crete, **Greece** (October 24 ~ 29, **2010**)
- C37.** Block copolymer self-assemblies for biomedical applications : example of glycoprotein mimics
K.K.UPADHYAY, S. LOUGUET, L. BUI, P. VOISIN, A. MISRA, J.F. LE MEINS, C.SCHATZ, S. LECOMMANDOUX
Suprabio 2010 “Recent Advances on Supramolecular Systems involving Biological Molecules and/or Bioinspired compounds”. CRPP, Pessac **France** (October 14th-15th **2010**).
- C38.** Biomimetic Polymersomes for Diagnosis and Therapy
C. SANSON, K. UPADHYAY, O.SANDRE, S. LECOMMANDOUX
Canadian Society for Chemistry CSC 2010 - Division: Materials Chemistry, Symposium: Polymers for Biomedical Applications. Toronto, **Canada** (31-05/3-06/**2010**)
- C39.** Polypeptide and polysaccharide based polymersomes: Biomimetic Nano-Carriers for Cancer Therapy
S. LECOMMANDOUX
9th France-Japan DDS Symposium “Recent Trends in Gene and Drug Delivery”- Kumamoto, **Japan** (September 26 ~ 29, **2010**).
- C40.** Biomedical applications of peptide-polymer conjugates biomimetic self-assemblies
C. SANSON, K. K. UPADHYAY, A. MISRA, J.F. LE MEINS, C. SCHATZ, O. SANDRE, S. LECOMMANDOUX
9th International Conference « Medical applications of Novel Biomaterial and Nano-Biotechnologies » Montecatini Terme, **Italy** (June 13-18, **2010**)
- C41.** Biomimetic block copolymers assemblies for Biomedical applications
C. SANSON, K. UPADHYAY, J.F. LE MEINS, C. SCHATZ, O. SANDRE, S. LECOMMANDOUX
Closing symposium SFB481 « Complex Maxromolecular and Hybrid Systems in Internal and External Fields » Weingarten, **Germany** (June 10-11, **2010**)
- C42.** Biomedical applications of polymersomes from peptide-polymer conjugates
C. SANSON, K. UPADHYAY, S. LECOMMANDOUX
Final Stipomat meeting “Experimental and Theoretical Design of Stimuli-Responsive Polymeric Materials”. Strasbourg, **France** (May 9-11, **2010**)
- C43.** Polypeptide and polysaccharide based polymersomes : biomimetic nano-carriers for cancer therapy
S. LECOMMANDOUX
Polymeric Biomaterials Conference. Reading, **UK** (April 15-16, **2010**)
- C44.** Smart drug delivery nano-carriers from polypeptide-based polymersomes
C. SANSON, A. SOUM, J.F. LE MEINS, C.SCHATZ, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 – PMSE « Nanostructured Materials from Supramolecular Interactions »

- San Francisco, **USA** (21-25 march **2010**)
- C45.** Temperature responsive PTMC-b-PGA copolymers: Fusion and Fission in Polymersomes
C. SANSON, C. SCHATZ, J.-F. LE MEINS, A. SOUM, S. LECOMMANDOUX
A.C.S. Polym. Prepr. 2010 – PMSE « Nanostructured Materials from Supramolecular Interactions » San Francisco **USA** (21-25 march **2010**)
- C46.** Magnetic polymersomes for therapy and imaging
C. SANSON, O.SANDRE, S. LECOMMANDOUX
RSC Biomaterials Chemistry Annual Meeting, 5th Annual Meeting. Durham University, **UK** (January 13, **2010**)
- C47.** Biomimetic Block Copolymer Vesicles for Diagnosis and Therapy
K. K. UPADHYAY, C. SANSON, A. MISRA, C. SCHATZ, J.-F. LE MEINS, S. LECOMMANDOUX
Asian Polymer Association 'Polymer Science & Technology: Vision & Scenario' (APA-2009), New Delhi, **India** (December 17-20, **2009**) (*plenary lecture*)
- C48.** Biomimetic Polymersomes from Polysaccharide and/or Polypeptide-based Copolymers for Diagnosis and Therapy
K. K. UPADHYAY, C. SANSON, S. LOUGUET, A. MISRA, C. SCHATZ, J.-F. LE MEINS, S. LECOMMANDOUX
11th Pacific Polymer Conference (PPC11), Carins, **Australia** (6 - 10 December **2009**)
- C49.** Polymer Vesicles in Drug Delivery
S. LECOMMANDOUX
NSF-Mauritius Workshop on Biomaterials, **Mauritius** (30/11 – 4/12 **2009**)
- C50.** Vésicules Polymères Biomimétiques: Application en diagnostique et thérapie
K.K UPADHYAY, C.SANSON, O. DIOU, O.SANDRE, A. SOUM, A. MISRA, C. SCHATZ, J.-F. LE MEINS, S. LECOMMANDOUX
GFP 2009, Le Mans, **France** (23-26 November **2009**)
- C51.** Polymer Nano-Assemblies for Diagnosis and Therapy
K.K UPADHYAY, S.LOUGUET, C.SANSON, O. DIOU, O.SANDRE, A. SOUM, A. MISRA, C. SCHATZ, J.-F. LE MEINS, S. LECOMMANDOUX
GTRV Summer School, EPFL-Lausanne, **Switzerland** (3-4 November **2009**).
- C52.** SANS & stimuli-responsive polymer self-assemblies
S. LECOMMANDOUX
JDN17, Ecole thématique «Neutrons et matière molle», La Grande Motte, **France** (23-27 mai **2009**).
- C53.** Click chemistry: a powerful tool to biomimetic block copolymer self-assemblies
W.AGUT, S.LOUGUET, K. UPADHYAY, C. SCHATZ, J.-F. LE MEINS, A.MISRA, D.TATON, S. LECOMMANDOUX
EPF conference on « Click-methods in polymer and material sciences », Gargnano, **Italie** (31 mai-4 juin **2009**)
- C54.** Block copolymer based nanomedicines as a tool for therapy and diagnostic
S. LECOMMANDOUX
2nd winter school on Nanotechnology in Advanced Drug Delivery, NIPER, Punjab, **Inde** (24-28 Février **2009**)
- C55.** Polymer Vesicles as new Biomimetic Nano-carriers
S. LECOMMANDOUX
Indo-Fench Workshop in Nanotechnology for Biomedical Application, Paris, **France** (13-14 Novembre **2008**)
- C56.** Polypeptide-based polymersomes as biomimetic nano-carriers
S.LECOMMANDOUX
France-Japon 8th Drug Delivery Symposium, Cannes, **France** (October 6-8, **2008**)
- C57.** Block copolymer self-assembly : a powerful tool for the design of new smart biomimetic nano-carriers
S. LECOMMANDOUX
International conference on Nanotechnology NANOSPAIN 2008, Braga, **Portugal** (April 14-18, **2008**) (*plenary lecture*)
- C58.** Block Copolymer Self-Assemblies for Therapeutic Applications
S. LECOMMANDOUX, C. SCHATZ, J.F. LE MEINS
Joint Workshop of the Marie Curie Research and Training Networks POLYAMPHI and BIOPOLYSURF and the EUROCORES project BIOSONS on "Self-assembled structures of amphiphilic copolymers and biopolymers", Biarritz, **France** (10-14 February **2008**)
- C59.** Stimuli-Responsive Polypeptide-Based Nano-Carriers
S. LECOMMANDOUX
Conference on NanoTechnology in Biology and Medicine, Charlotte, **USA** (November 4-5, **2007**)
- C60.** Soft Nanomaterials and their Applications in Biology and Medicine
S. LECOMMANDOUX
Tutorial (3 hours) at the Conference on NanoTechnology in Biology and Medicine, Carolinas Medical Center, Charlotte, **USA** (November 4, **2007**)

- C61.** Polypeptide-based Vesicles as biomimetic nano-carriers
S. LECOMMANDOUX
Annual conference of the European Science Foundation (ESF) sponsored Research Networking Programme "Stimuli-Responsive Polymeric Materials" (STIPOMAT), Les Diablerets, **Switzerland** (October 14-17, **2007**)
- C62.** Synthesis and Characterization of Polypeptide-based polymersomes as biomimetic nano-carriers
S. LECOMMANDOUX
20th International Symposium on Polymer Analysis and Characterization (ISPAC 2007), session on Biomaterials, **Crete**, (September 30-October 3, **2007**)
- C63.** Polypeptide-based polymersomes as biomimetic nano-carriers
W. AGUT, C. SANSON, D. TATON, A. SOUM, C. SCHATZ, J.F. LE MEINS, S. LECOMMANDOUX
American Chemical Society ACS Meeting, symposium on "Polypeptide and Protein Materials", Boston, **USA** (August 19-23, **2007**)
- C64.** Polypeptide-based polymersomes as stimuli-responsive nanovectors
C. SCHATZ, S. LECOMMANDOUX
European Polymer Congress 2007 (EPF-2007), Portoroz, **Slovenia** (July 2-6, **2007**)
- C65.** Hierarchical and functional nanostructures from rod-coil block copolymers
F. CHÉCOT, J. BABIN, A. DE CUENDIAS, D. TATON, E. CLOUTET, H. CRAMAIL, S. LECOMMANDOUX
Canadian Society for Chemistry, symposium "Polymers for nanoscience and Nanotechnology", Winnipeg, **Canada** (May 26-30, **2007**)
- C66.** Stimuli-responsive Nanoparticles from Self-Assembly of Polypeptide-based Block Copolymers
S. LECOMMANDOUX
Seventh France-Japan DDS Symposium on "Recent trends in Gene and Drug Delivery", Biwako Hotel, Otsu, **Japan** (septembre 24-27, **2006**)
- C67.** Stimuli-responsive Micelles and Vesicles from Self-Assembly of Polypeptide-based Block Copolymers
S. LECOMMANDOUX, W. AGUT, D. TATON, A. BRULET
MACRO Group UK International Conference on Polymer Synthesis, Warwick, **England** (31 Juillet-3 août **2006**)
- C68.** Multi-Responsive Nanoparticles from Self-Assembly of Polypeptide-based Block Copolymers
S. LECOMMANDOUX
Polymers in Life Sciences, Centre Loewenber, Murten, **Suisse** (4-5 avril **2006**)
- C69.** Multi-responsive vesicles from diblock copolymer self-assembly
S. LECOMMANDOUX
Kick-off workshop of STIPOMAT (ESF Programme on Experimental and Theoretical Design of Stimuli Responsive Polymeric Materials), Obernai, **France** (27-30 octobre **2005**)
- C70.** Bulk and Water Self-Assembly of Polypeptide-Based Block Copolymers
S. LECOMMANDOUX
Meeting of the Belgian Polymer Group (BPG), La-Roche-en-Ardenne, **Belgique** (18-20 mai **2005**)
- C71.** Self-assembled nanostructures from peptide-synthetic hybrid block copolymers : complex, stimuli-responsive rod-coil architectures
J. BABIN, J. RODRIGUEZ-HERNANDEZ, S. LECOMMANDOUX, H.-A. KLOK, M.-F. ACHARD
Faraday Discussion Meeting 128 on « Self-Organising Polymers », Leeds, **Grande-Bretagne** (juillet **2004**)
- C72.** Bulk and Solution Self-Assembly of Copolymers with Different Architectures
F. CHÉCOT, S. LECOMMANDOUX, H.-A. KLOK, Y. GNANOU
Supernet Conference on "Complex Polymer Structures : Synthesis, Characterization and Modelling", Spa, **Belgique** (juin **2003**)

List of invited seminars in Universities or Companies

- C73.** Société Pharmamar, Madrid, **Spain** (Oct. 23, **2013**)
- C74.** Adolphe Merkle Institute, University of Fribourg, **Switzerland** (June 16, **2013**)
- C75.** Département de chimie minérale et analytique, Université de Genève, **Switzerland** (June 16, **2013**)
- C76.** Laboratoire Charles Coulomb (UMR 5521) Université Montpellier II, **France** (July 11, **2013**)
- C77.** Société ADOCIA, Lyon, **France** (July 4, **2013**)
- C78.** SANOFI, Centre de Recherche Montpellier, **France** (April 14, **2013**)
- C79.** MRSEC, Duke University, Durham, NC, **USA** (March 28, **2013**)
- C80.** KAUST, Chemical Science Program, **Saudi Arabia** (Feb. 23, **2013**)
- C81.** Molecular Materials, Department of Applied Physics, Aalto University School of Science, **Finland** (October 12, **2012**)
- C82.** Company DEBIOPHARM, Lausanne, **Suisse** (August 31, **2012**)
- C83.** Tongji University, Shanghai, **China** (September 11, **2012**)
- C84.** Hefei National Laboratory for Physical Sciences at the Microscale, University of Science and Technology of China – Hefei, **China** (September 15, **2012**)

- C85.** Shanghai Jiaotong University, **China** (September 10th, **2012**)
- C86.** Company CEVA Santé Animale, Libourne, **France** (July 20, **2012**)
- C87.** Company BERTIN PHARMA, Bordeaux, **France** (June 25, **2012**)
- C88.** Institute of Chemistry of the Chinese Academy of Science ICCAS, Beijing, **China** (June 1, **2012**)
- C89.** Laboratory of Polymeric and Composite Materials (LPCM), Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons, **Belgium** (May 20, **2012**)
- C90.** INSERM EA4552 "Receptors and Therapeutic Targeting in Cancerology" Toulouse, **France** (May 14, **2012**)
- C91.** Institut Curie « Laboratoire Physico-Chimie », Paris, **France** (May 9, **2012**)
- C92.** UCLA, Department of Biochemical Engineering, Los Angeles, **USA** (March 30, **2012**)
- C93.** Department of Organic Chemistry, Radboud University Nijmegen, **Netherlands** (February 10, **2012**)
- C94.** CEA-LETI, Grenoble, **France** (January 17, **2012**)
- C95.** Jealott's Hill International Research Center, SYNGENTA, **UK** (May 17, **2011**)
- C96.** Institut d'Innovation Galénique, TECHNOLOGIE SERVIER, Orléans, France (Nov. 3, **2011**)
- C97.** Université Lille 1, Unité Matériaux et Transformations, CNRS UMR 8207 (Nov. 10, **2010**)
- C98.** ESPCI Paritech, Paris, France (Sept. 13, **2010**)
- C99.** Company DEBIOPHARM, Lausanne, Suisse (Sept. **2009**)
- C100.** Ecole Polytechnique Fédérale de Lausanne, Institut des Matériaux, Laboratoire des Polymères, Suisse (Sept. **2009**)
- C101.** Service de Physique de l'Etat Condensé (SPEC, CEA-DRECAM), Saclay, France (Juin **2008**)
- C102.** Imperial College of London, Department of Materials, UK (Mars **2008**)
- C103.** Melville Laboratory for Polymer synthesis, University of Cambridge, UK (Mars **2008**)
- C104.** Société FIRMENICH, Genève, Suisse (février **2008**)
- C105.** Université de Santiago de Compostella, department de Physique, Espagne (octobre **2007**)
- C106.** Department of Chemistry, Queen's University, Kingston, Ontario, Canada (Mai **2007**)
- C107.** Laboratoire Interdisciplinaire sur l'Organisation Nanométrique et Supramoléculaire (LIONS), Drecam CEA, Saclay, France (novembre **2006**)
- C108.** Department of Materials Engineering and Center for Disease Biology and Integrative Medicine, University of Tokyo, Japan (Septembre **2006**)
- C109.** Société FIRMENICH, Genève, Suisse (juin **2006**)
- C110.** Centre d'Etude et CERMAV, Grenoble, France (Avril **2006**)
- C111.** Laboratoire Léon Brillouin (LLB), CEA, Saclay, France (janvier **2005**)
- C112.** Institut Laue Langevin (ILL), Grenoble, France (septembre **2004**)
- C113.** Société L'OREAL, Aulnay-sous-Bois, France (Avril **2004**)
- C114.** Laboratoire de physico-chimie macromoléculaire, ESCPI, Paris, France (juin **2003**)
- C115.** Laboratoire des interactions moléculaires et réactivité chimique et photochimique, Université Paul Sabatier, Toulouse, France (octobre **2003**)
- C116.** Institut Charles Sadron ICS, Strasbourg, France (**2001**)
- C117.** Université de Florianopolis, Brésil (**2001**)
- C118.** Laboratoire Léon Brillouin LLB-CEA, Saclay, France (**1997**)
- C119.** Laboratoire de Chimie des Polymères Organiques LCPO, Bordeaux, France (**1997**)
- C120.** Institut de Physique et Chimie des Matériaux de Strasbourg IPCMS, Strasbourg, France (**1997**)

List of oral presentations in international conferences

- C121.** Magnetic field triggered drug release from polymersomes for cancer therapeutics
H. OLIVEIRA, E. PEREZ-ANDRES, J. THEVENOT, O. SANDRE, E. BERRA, S. LECOMMANDOUX
226th ACS National Meeting, PMSE, Session "Smart Materials for Encapsulation and Controlled Release of Actives", Indianapolis, **USA** (Sept. 8-12, **2013**)
- C122.** Elastin-based amphiphilic copolymers as precision building blocks for controlled self-assembly
E. GARANGER, S. MAC EWAN, A. BRULET, L. BATAILLE, O. SANDRE, A. CHILKOTI, S. LECOMMANDOUX
226th ACS National Meeting, POLY, Session "Sequence-Controlled Polymers", Indianapolis, **USA** (Sept. 8-12, **2013**)
- C123.** Biologically active polymersomes from amphiphilic glycopolypeptides
C. BONDUELLE, J. HUANG, J. THEVENOT, A. HEISE, S. LECOMMANDOUX
ACS Polym. Prepr. 2012- POLY « Glycopeptide Polymers » San Diego, CA, USA (March 24-29, 2012)
- C124.** Self-assembly of amphiphilic polypeptides for the formation of polymersomes and hydrogels
J. HUANG, C. BONDUELLE, S. LECOMMANDOUX, D. J. ADAMS, J. RAEBURN, A. HEISE
ACS Polym. Prepr. **2012**- POLY « Polymers in Organized Assemblies » San Diego, CA, USA (March 24-29, 2012)
- C125.** Block copolymer coated magnetic nanoparticles as hybrid systems for combined imaging and therapy of brain diseases

- S. LOUGUET, C. SCHATZ, R. EPHERRE, S. MORNET, E. DUGUET, A. VEKRIS, K.G. PETRY, S. LECOMMANDOUX
ACS 241st National Meeting, COLL « Nanoparticle-Biological Cell Interactions», Anaheim, California, **USA**
(March 27-31, **2011**)
- C126.** Polymersomes from polypeptide-b-polysaccharide copolymers: biomimetic drug delivery nano-carriers
K.K.UPADHYAY, S. LOUGUET, A. MISRA, J.F. LE MEINS, C.SCHATZ, S. LECOMMANDOUX
ACS 239th National Meeting, POLY « Synthetic and Biological Macromolecules for Emerging
Nanotechnologies », San Francisco **USA** (21-25 march **2010**)
- C127.** pH and temperature responsive polymeric micelles and polymersomes from polypeptide-based double
hydrophilic block copolymers
W. AGUT, A. BRULET, C. SCHATZ, D. TATON, S. LECOMMANDOUX
ACS 239th National Meeting, POLY « Nonconventional Functional Block Copolymers » San Francisco **USA**
(21-25 march **2010**)
- C128.** Magnetic polymersomes for combined imaging and therapy
C. SANSON, O. DIOU, A. SOUM, O. SANDRE, S. LECOMMANDOUX
ACS 239th National Meeting, POLY « Engineering the Biology-Materials Interface » San Francisco **USA** (21-
25 march **2010**)
- C129.** Polypeptide-based Polymersomes as Biomimetic Nano-carriers
S. LECOMMANDOUX
NanoSWEC 2008, Bordeaux **France** (3-5 Octobre **2008**)
- C130.** Stimuli-Responsive Polypeptide-Based Biomimetic Nanocarriers
J.-F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX
48th microsposium on "Polymer Colloids: From Design to Biomedical and Industrial Applications", Prague,
République Tchèque (21-24 Juillet **2008**)
- C131.** Stimuli-Responsive Micelles and Vesicles Based on Polypeptide Diblock Copolymers
C. SANSON, W. AGUT, D. TATON, A. SOUM, J.-F. LE MEINS, C. SCHATZ, A. BRÛLET, O. SANDRE, S.
LECOMMANDOUX
35th annual meeting of the Controlled Released Society (CRS), New-York, **USA** (12-16 juillet **2008**)
- C132.** pH-responsive Nanocapsules based on polypeptide diblock copolymers.
S. LECOMMANDOUX, J. RODRIGUEZ-HERNANDEZ, J. BABIN, A. BRULET, J. OBERDISSE.
International Symposium on Polymers for Advanced Technologies, Budapest, **Hongrie** (13-16 septembre
2005)
- C133.** pH-responsive Micelles and Vesicles Nanocapsules based on polypeptide diblock copolymers.
F. CHÉCOT, J. RODRÍGUEZ-HERNÁNDEZ, Y. GNANOU, S. LECOMMANDOUX
European Materials Research Society E-MRS 2005 Spring Meeting, Strasbourg, **France** (1-3 juin **2005**)
- C134.** Smart Hybrid Magnetic Self-Assembled Micelles and Hollow Capsules.
S. LECOMMANDOUX, O. SANDRE, F. CHÉCOT, R. PERZYNSKI
European Materials Research Society E-MRS 2005 Spring Meeting, Strasbourg, **France** (1-3 juin **2005**)
- C135.** Systematic study on the self-assembly of rod-coil diblock copolymers based on α -helical peptides.
S. LECOMMANDOUX, F. CHÉCOT, J. BABIN, J. RODRÍGUEZ HERNÁNDEZ, Y. GNANOU, H.-A. KLOK.
World Polymer Congress MACRO 2004 (IUPAC), Paris, **France** (juillet **2004**)
- C136.** Systematic Study On the Self-Assembly of Rod-Coil Diblock Copolymers based on α -helical peptides
S. LECOMMANDOUX, J. BABIN, F. CHÉCOT, H.-A. KLOK
American Chemical Society ACS Meeting, Boston, **USA** (août **2002**)
- C137.** Water Soluble Stimuli-Responsive Vesicles From Peptide-based Diblock Copolymers
F. CHÉCOT, S. LECOMMANDOUX, Y. GNANOU, H.-A. KLOK
MACRO Group UK International Conference on Polymer Synthesis, Warwick, **Angleterre** (juillet **2002**)
- C138.** Supramolecular Assemblies Based on Amphiphilic Diblock Copolymers
S. LECOMMANDOUX
Conférence Européenne du CERC3, Valbeck, **Belgique** (**2002**)
- C139.** From Supramolecular Amphiphilic Aggregates to Spherical Objects
S. LECOMMANDOUX, F. CHÉCOT, Y. GNANOU, H.-A. KLOK
Bayreuth Polymer Symposium, Bayreuth, **Allemagne** (**2001**)
- C140.** Supramacromolecular Objects From Peptide-based Copolymers
S. LECOMMANDOUX, F. CHÉCOT, Y. GNANOU, H.-A. KLOK
Polymer Gordon Conference, New London, **USA** (**2001**)

List of oral presentations in national conferences

- C141.** Nanoparticules polymères à base de polypeptides et/ou de polysaccharides pour applications biomédicales
S. LECOMMANDOUX
Journées IMP-LCPO-CRPP, Bordeaux, France (14-15 Septembre 2010)

- C142.** Les vésicules de copolymères à blocs comme vecteur non-viral biomimétique
K. UPADYAY, C. SANSON, A. SOUM, C. SCHATZ, J.-F. LE MEINS, S. LECOMMANDOUX
XXIII^{èmes} Journées du GTRV (Groupe thématique de Recherche sur la Vectorisation), Angers (Décembre **2008**)
- C143.** Vésicules multi-stimulables à partir de copolymères à blocs à base de polypeptides
S. LECOMMANDOUX
Club Nanomatériaux pour le Vivant, Lyon, **France** (16 mars **2006**)
- C144.** Ingénierie Supramacromoléculaire par Auto-Assemblage de Copolymères
S. LECOMMANDOUX, F. CHECOT, Y. GNANOU
30^{ème} Colloque Annuel du GFP, Paris (Novembre **2000**)
- C145.** Auto-Assemblage de Copolymères : Chimie Supramacromoléculaire
S. LECOMMANDOUX
XXVIII^{ème} Journées d'Etudes des Polymères, Mèze (Octobre **2000**)
- C146.** Auto-Assemblage de Copolymères Diblocs à base de Peptides
S. LECOMMANDOUX, J. LANGENWALTER, H.-A. KLOK
Septièmes Journées de la Matière Condensée, JMC7, Poitiers (Août **2000**)
- C147.** Nouveaux polymères cristaux liquides en "haltère" : propriétés mésomorphes, structurales et conformationnelles
S. LECOMMANDOUX, M.F. ACHARD, H. RICHARD, L. NOIREZ, F. HARDOUIN
Septième Colloque d'Expression Française sur les Cristaux Liquides, Sophia Antipolis (**1995**)
- C148.** Synthèse et caractérisation de nouveaux polymères cristaux liquides en "haltère" aux phases N et Sc
S. LECOMMANDOUX, M.F. ACHARD, H. RICHARD, F. HARDOUIN
Congrès national de la Société Française de Chimie, Lyon (**1994**)
- C149.** Polymères cristaux liquides en "haltère" nématique et smectique C : synthèse et caractérisation
S. LECOMMANDOUX, M.F. ACHARD, H. RICHARD, F. HARDOUIN
Journées Grand Sud-Ouest de la Société Française de Chimie, Toulouse (**1994**)