

Sébastien LECOMMANDOUX

Date of birth: June 7, 1970 / Married, 2 children, French

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Twitter: https://twitter.com/biomac_acs_bord

Google Scholar: <https://scholar.google.fr/citations?user=FKzOnNUAAAJ&hl=fr>

***H factor 68, more than 18,300 total citations (Google Scholar)
220 publications, 7 book chapters, 12 patents, 2 licenses, 1 start-up
265 invited presentations (including 15 plenary and keynote lectures)***

EDUCATION AND EXPERIENCE

2020	Editor-in-Chief Biomacromolecules, ACS (IF2020 6.988)
2018	Director of Joint Laboratory LCPO-L'OREAL
2016	Director of the Laboratoire de Chimie des Polymères Organiques LCPO
2014	Full Professor PRCE2, Bordeaux-INP, ENSCBP – Université de Bordeaux
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

2023	Materials and Polymer Chemistry Lectureship Award, University of Warwick, UK
2022	Advisory Professor, Japan Advanced Institute of Science and Technology (JAIST), Japan
2021	XingDa Lectureship, Peking University
2020	Nomination Academia Europaea, Section Chemical Sciences
2019	French Academy of Science, Chemistry Seqens Award
2018	Invited Professor at the University of California at Los Angeles UCLA, USA
2017	Fellow of the Royal Society of Chemistry, RSC
2007	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
2004	Bronze Medal Award of the CNRS
1996	Award for the best PhD thesis from French Chemical Society

MEMBERSHIP

French Polymer Society (GFP), French Chemical Society (SFC), American Chemical Society (ACS), Controlled Release Society (CRS), French Society of Nanomedicine (SF-NANO).

SYNOPSIS OF THE RESEARCH ACTIVITY AND SCIENTIFIC PRODUCTION

- General field of interest: Therapeutic Nanotechnologies, Drug-Delivery, Biomaterial, Polypeptide and polysaccharide synthesis and self-assembly, Biomimicry for (bio)materials design
- More than 290 oral communications, including 15 plenary and ~ 260 on invitation.
- About 220 research publications, 7 book chapters, 1 book edited, 12 patents (2 licenced), 1 start-up.
- Defence of 35 PhD thesis; 8 currently under (co)supervision; 35 postdocs trained.
- Coordinator or co-PI of more than 40 international and national research programs including 8 running projects (ANR, H2020, FP7-NMP, IUPAC, RNP-ESF, Marie-Curie) and several research contracts with industries in cosmetics and drug delivery fields (including L'Oreal, Firmenich, Debiopharm, Servier, PMC-Isochem, MedinCell).
- Scientific Advisory Board of different companies (Emissary, MedinCell, CELLAP) and co-founder of start-up (DOXANANO).

SCIENTIFIC ANIMATION AND RESPONSIBILITIES

- 2022-current: **Advanced Training Council** (Conseil de Perfectionnement) of ESPCI, Paris.
- 2020-current: **Editor in Chief** Biomacromolecules (ACS) after being **Associate Editor** from 2013.
- 2018-current: **Director** of the Joint Laboratory L'OREAL-LCPO
- 2016-current: **Director** of the Laboratoire de Chimie des Polymères Organiques (LCPO, UMR CNRS 5629).
- 2010-2016: **Adjunct Director** of the LCPO (UMR CNRS 5629).
- 2012-current: Member of the International **Editorial Board** of several journals, including "Polymer Chemistry" (RSC), "Biomaterials Science" (RSC), "Bioconjugate Chemistry" (ACS).
- 2005-2014: **Director of the Research** at the Ecole Nationale Supérieure de Chimie, Biologie et Physique de Bordeaux (IPB-ENSCBP-University de Bordeaux).
- 2011-2015: **Chair** of the Research Network Programme from ESF about "Precision Polymer Materials".
- 2022 : **Chair** of an ACS Publications Editor-in-Chief search committee, providing nominations for candidates, feedback on candidates' records and vision statements, and advancing final candidates for Board of Directors approval.
- Co-editor of "Block Copolymers in Nanosciences", M. Lazzari, G. Liu, S. Lecommandoux, Wiley-VCH (2006).
- **Organizer for different conferences and symposium**, including recently: « Bordeaux Polymer Conference » [BPC 2022](#), Bordeaux (600 participants) Symposium « Bio-Inspired Macromolecular Materials » at the Spring ACS National Meeting (PMSE), Philadelphia, USA (2020), Symposium « Molecular Engineering of Peptide Assemblies » at the Spring ACS National Meeting (PMSE), Orlando, USA (2019), « Bordeaux Polymer Conference » [BPC 2018](#), Bordeaux (600 participants); Symposium « Glycopeptide Polymers » at the 243rd ACS National Meeting (POLY), San Diego, USA (2012) ; Symposium « Precision Polymer Materials » at the Fall 2012 MRS Meeting, Boston, USA (November 25-30, 2012)
- **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), "HCERES" Pannel member (France), "Research Foundation Flanders" (FWO, Belgium), "Netherlands Organisation for Scientific Research" (NWO, Netherlands), Alexander von Humboldt Stiftung / Foundation (Germany)...
- **Reviewer** for: Nature Materials, Nature Chemistry, Nature Comm., Science, Advanced Materials, JACS, Angewandte Chemie, Macromolecules, Langmuir, Biomacromolecules, Polymer Chemistry, Soft Matter, ...
- **Referee** for about 45 PhD (national and international) and 15 Habilitation à diriger les Recherches (HDR).

RECENT MAJOR FUNDINGS

Over the last 5 years, I have generated about 5 M€ funding, including:

- About 1.8 M€ from national ANR grants (12 projects, 8 in coordination)
- About 1.8 M€ from European grants (2 ITN, 3 H2020, 1 Marie Curie)
- About 0.9 M€ from other national grants and associations (La Ligue, INCA, PIA3)
- About 0.6 M€ from Industry (7 contracts including)

MAJOR COLLABORATIONS

- Timothy Deming, UCLA, USA on polypeptide synthesis and modification
- Ashutosh Chilkoti, Duke University, USA on Elastic Like Polypeptide design
- Mark Grinstaff, Boston University, USA on Polymer based Biosensors
- Jan van Hest, Technical University of Eindhoven TUE, The Netherlands on functional polymersomes
- Andreas Heise, Royal College of Surgeons in Ireland RCSI Dublin, Ireland on polypeptide biomaterials
- Zhibo Li, Qingdao University of Science and Technology, China on polypeptoids design
- Xavier Schultze, L'OREAL Research on polymers & cosmetics
- Amandine Hurbin, Institute for Advanced Biosciences IAB Grenoble, France on cancer therapeutics
- Annie Brûlet, Leon Brillouin Laboratory LLB Saclay, France on neutron scattering experiments

TEACHING EXPERIENCE AND RESPONSIBILITIES

Appointed to the ENSCBP, I have always taught mainly in this generalist engineering school in chemistry and physics (and more recently in biology). My teaching is mainly dedicated to polymer science with a homogeneous distribution over the 3 years of engineering training, including lectures, tutorials and practical work. I have also participated for a long time in the Bachelor and Master courses of the University of Bordeaux, bringing my experience in the field of block copolymers, physical chemistry and the interface with biology. Moreover, I assumed various responsibilities in the organization of the teaching activities, with in particular the responsibility for the practical work in polymers of the ENSCBP (1999-2006), the responsibility for the teachings in 1st year of the ENSCBP (2003-2006) and the structuration and responsibility of the 3rd year teaching program at ENSCBP about "engineering of polymers and formulation" (2000-2006).

INCLUSIVE LEADERSHIP

I am paying a lot of attention to support the carrier of my PhD students, but also my postdocs and the younger colleagues I am working with. My group is very international, with more than 10 different nationalities from the last 5 years (Azerbaijan, Mexico, Germany, Greece, Spain, China, India, Brazil, Turkey...). All my students found a job after a maximum of 3 months after their graduation, mostly in companies. In 2020, 3 of my former female postdocs have been recruited with a CNRS position in a very competitive context. This was one of my best achievements that made me very proud (<https://twitter.com/SebLecommandoux/status/1443323333756563469>).

ACTIONS TO PROMOTE AND DISSEMINATE RESEARCH

Award Segens from the French "Académie des sciences"

Part 1: <https://www.youtube.com/watch?v=I2SoLiV2Qkc>

Part 2: <https://www.youtube.com/watch?v=Xisocsv9qXg>

Part 3: <https://www.youtube.com/watch?v=BzkVzaplvDM>

<https://www.segens.com/fr/remise-du-prix-segens-de-lacademie-des-sciences/?cn-reloaded=1>

<https://www.academie-sciences.fr/fr/Laureats/laureats-2019-des-prix-thematiques-premiere-ceremonie.html>

Inauguration Joint Laboratory LCPO-L'OREAL.

<https://france3-regions.francetvinfo.fr/nouvelle-aquitaine/gironde/bordeaux/bordeaux-oreal-inaugure-laboratoire-recherche-campus-1458195.html>

<https://www.youtube.com/watch?v=Yf3pLBfEivc>

<https://www.bordeaux-inp.fr/fr/lloreal-et-le-lcpc-creent-un-laboratoire-commun-dedie-linnovation-des-polymeres-verts>

Different highlights of our research from CNRS

<https://www.inc.cnrs.fr/fr/cnrsinfo/des-amphiphiles-100-naturels-pour-lencapsulation-de-principes-actifs>

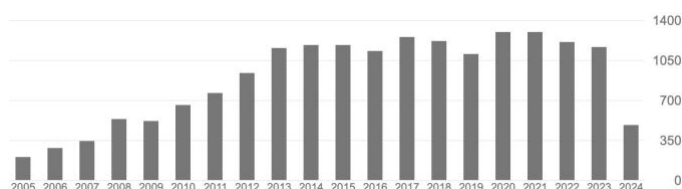
<https://www.inc.cnrs.fr/fr/cnrsinfo/une-synthese-et-un-auto-assemblage-verts-pour-les-polypeptides>

<https://inc.cnrs.fr/fr/cnrsinfo/un-nouvel-element-de-reconnaissance-pour-les-biocapteurs>

TRACK RECORD AND CITATION IMPACT (Google Scholar, April 2024)

	All	Since 2019
Total Citations	18226	6438
H-index	68	43
i10 index	184	139

Citations per year



MAJOR SCIENTIFIC ACHIEVEMENTS

Key References from the past 5 years.

Control of Enzyme Reactivity in Response to Osmotic Pressure Modulation Mimicking Dynamic Assembly of Intracellular Organelles

C SCHVARTZMAN, H ZHAO, E IBARBOURE, V IBRAHIMOVA, E GARANGER, S. LECOMMANDOUX

Advanced Materials 35(33), 2301856 (2023)

Controlling Polymersome Size through Microfluidic-Assisted Self-Assembly: Enabling 'Ready to Use' formulations for biological applications

A MARTIN, P LALANNE, A WEBER-VAX, A MUTSCHLER, S LECOMMANDOUX

International Journal of Pharmaceutics 642, 123157 (2023)

Emerging opportunities in bioconjugates of Elastin-like Polypeptides with synthetic or natural polymers

E. GARANGER, S. LECOMMANDOUX

Advanced Drug Delivery Reviews 191, 114589 (2022)

Spatiotemporal Dynamic Assembly/Disassembly of Organelle-Mimics Based on Intrinsically Disordered Protein-Polymer Conjugates

H. ZHAO, E. IBARBOURE, V. IBRAHIMOVA, Y. XIAO, E. GARANGER, S. LECOMMANDOUX

Advanced Science 2102508 (2021)

Thermosensitive vesicles from chemically encoded lipid-grafted elastin-like polypeptides

V IBRAHIMOVA, H ZHAO, E IBARBOURE, E GARANGER, S LECOMMANDOUX

Angew. Chem. Int. Ed. 60, 15036-15040 (2021)

Cyclic Poly (α -peptoid)s by Lithium bis (trimethylsilyl) amide (LiHMDS)-Mediated Ring-Expansion Polymerization: Simple Access to Bioactive Backbones

P. SALAS-AMBROSIO, A. TRONNET, M. SINCE, S. BOURGEADE-DELMAS, J.-L. STIGLIANI, A. VAX, S. LECOMMANDOUX, B. DUPUY, P. VERHAEGHE, C. BONDUELLE

J. Am. Chem. Soc. 143, 3697-3702 (2021)

Hyaluronic acid presentation at the surface of self-assembled nanoparticles transforms a hyaluronidase HYAL1 substrate into an efficient and selective inhibitor.

H. DUAN, M. DONOVAN, F. HERNANDEZ, C. DI PRIMO, E. GARANGER, X. SCHULTZE, S. LECOMMANDOUX.

Angew. Chem. Int. Ed. 132 (32), 13693-13698 (2020)

Dynamic Spatial Formation and Distribution of Intrinsically Disordered Protein Droplets in Macromolecularly Crowded Protocell

H. ZHAO, V. IBRAHIMOVA, E. GARANGER, S. LECOMMANDOUX

Angew. Chem. Int. Ed. 132 (27), 11121-11129 (2020)

A Progesterone Biosensor Derived from Microbial Screening.

C. GRAZON, R. C. BAER, U. KUZMANOVIC, T. NGUYEN, M. CHEN, M. ZAMANI, M. CHERN, P. AQUINO, X. ZHANG, S. LECOMMANDOUX, A. FAN, M. CABODI, C. KLAPPERICH, M. W. GRINSTAFF, A. M. DENNIS, J. GALAGAN

Nature Communications 11, 1276 (2020)

Aqueous Ring-Opening Polymerization-Induced Self-Assembly (ROPISA) of N-Carboxyanhydrides

C. GRAZON, P. SALAS-AMBROSIO, E. IBARBOURE, A. BUOL, E. GARANGER, M. W. GRINSTAFF, S. LECOMMANDOUX, C. BONDUELLE

Angew. Chem. Int. Ed. 59 (2), 622-626 (2020)

Polypeptide Nanoparticles Obtained from Emulsion Polymerization of Amino Acid N-Carboxyanhydrides

J. JACOBS, D. PAVLOVIC, H. PRYDDERCH, M.-A. MORADI, E. IBARBOURE, J.P.A. HEUTS, S. LECOMMANDOUX, A. HEISE

J. Am. Chem. Soc. 141, 12522-12526 (2019)

Photo-triggered polymer nanomedicines: From molecular mechanisms to therapeutic applications

L. BEAUTÉ, N. MCCLENAGHAN, S. LECOMMANDOUX

Advanced Drug Delivery Reviews 138, 148-166 (2019)

PUBLICATIONS

- [P1] Protocells Featuring Membrane-Bound and Dynamic Membraneless Organelles
C. SCHVARTZMAN, E. IBARBOURE, A. MARTIN, E. GARANGER, A. MUTSCHLER, S. LECOMMANDOUX
Biomacromolecules in press (2024)
- [P2] Polypeptide and Protein-based conjugate nanoparticles via aqueous Ring-Opening
Polymerization-Induced Self-Assembly (ROPISA)
H BEAUSEROY, C. GRAZON, S. ANTOINE, M. BADRELDIN, P. SALAS-AMBROSIO, S. HARRISSON, E.
GARANGER, S. LECOMMANDOUX, C. BONDUELLE
Macromol. Rap. Comm. 2024 (10.1002/marc.202400079)
- [P3] An Elastin-derived composite matrix for enhanced vascularized and innervated bone tissue
reconstruction: from material development to preclinical evaluation
N. MAHMOUDI, M. ROQUE, B. PAIVA DOS SANTOS, H. OLIVEIRA, R. SIADOUS, S. REY, E. GARANGER, S.
LECOMMANDOUX, S. CATROS, B. GARBAY, J. AMÉDÉE VILAMITJANA
Adv. Health. Mat. 2024 (10.1002/adhm.202303765)
- [P4] Thermoresponsive core-crosslinked nanoparticles from HA-b-ELP diblock copolymers
M. LEVEQUE, S. LECOMMANDOUX, E. GARANGER
Biomacromolecules 25(5), 3011–3017 (2024)
- [P5] Toward Synthetic Intrinsically Disordered Polypeptides (IDPs): Controlled Incorporation of Glycine in
the Ring-Opening Polymerization of *N*-Carboxyanhydrides
M. BADRELDIN, P. SALAS-AMBROSIO, S. BOURASSEAU, S. LECOMMANDOUX, S. HARRISSON, C.
BONDUELLE
Biomacromolecules 25(5), 3033–3043 (2024)
- [P6] Engineering Methacrylic Block Copolymers by Organic Catalysis Group Transfer Polymerization-
Induced Self-Assembly in Nonpolar Media at Room Temperature
A. STITI, A.M. CENACCHI PEREIRA, G. FLEURY, S. LECOMMANDOUX, D. TATON
Macromolecules 57(4), 1713-1724 (2024)
- [P7] Thermoresponsive polymers: from natural proteins to amino acid based polymer synthesis
M. BADRELDIN, P. SALAS AMBROSIO, E. GARANGER, S. LECOMMANDOUX, S. HARRISSON, C.
BONDUELLE
Progress in Polymer Science 147, 101752 (2023)
- [P8] Transcription-factor-induced aggregation of biomimetic oligonucleotide-b-protein micelles
C. GRAZON, E. GARANGER, P. LALANNE, E. IBARBOURE, J. GALAGAN, M. GRINSTAFF, S.
LECOMMANDOUX
Biomacromolecules 24, 5037-5034 (2023)
- [P9] Group Transfer Polymerization-Induced Self-Assembly (GTPISA) in Non-polar Media: An
Organocatalyzed Route to Block Copolymer Nanoparticles at Room Temperature
A. STITI, A.-M. CENACCHI PEREIRA, S. LECOMMANDOUX, D. TATON
Angew. Chem. Int. Ed. 62(34), e202305945 (2023)
- [P10] Controlling Polymersome Size through Microfluidic-Assisted Self-Assembly: Enabling 'Ready to Use'
formulations for biological applications
A MARTIN, P LALANNE, A WEBER-VAX, A MUTSCHLER, S LECOMMANDOUX
International Journal of Pharmaceutics 642, 123157 (2023)
- [P11] Control of Enzyme Reactivity in Response to Osmotic Pressure Modulation Mimicking Dynamic
Assembly of Intracellular Organelles
C SCHVARTZMAN, H ZHAO, E IBARBOURE, V IBRAHIMOVA, E GARANGER, S. LECOMMANDOUX
Advanced Materials 35(33), 2301856 (2023)
- [P12] Light-Responsive Elastin-Like Peptide-Based Targeted Nanoparticles for Enhanced Spheroid
Penetration
D. H. T. LE, V. IBRAHIMOVA, S. A. H. VAN DEN WILDENBERG, H. WU, A. FONSECA, T. TORRES, E.
GARANGER, W. P. J. LEENDERS, R. BROCK, S. LECOMMANDOUX, J. C. M. VAN HEST
Angew. Chem. Int. Ed. 135 (24), e202300511 (2023)
- [P13] Improving aqueous solubility of paclitaxel with polysarcosine-b-poly(γ -benzyl glutamate)
nanoparticles
C. LEBLEU, L. PLET, F. MOUSSY, G. GITTON, R. DA COSTA MOREIRA, L. GUDUFF, B. BURLOT, R.
GODIVEAU, A. MERRY, S. LECOMMANDOUX, G. ERRASTI, C. PHILIPPE, T. DELACROIX, R. CHAKRABARTI
International Journal of Pharmaceutics 623, 122501 (2023)

- [P14] Cellulose-Assisted Formation of 2D Hybrid Halide Perovskite Nanocrystals with Enhanced Stability for Light-Emitting Devices
S RAMOS-TERRON, L SPITZER, C MARTIN, E SOLANO, D HERMIDA-MERINO, S. LECOMMANDOUX, F. JEROME, H. CRAMAIL, P. G. ARGUDO, G. DE MIGUEL
Advanced Optical Materials 2300676 (2023)
- [P15] Robust Polyion Complex Vesicles (PICsomes) Based on PEO-*b*-poly(amino acid) Copolymers Combining Electrostatic and Hydrophobic Interactions: Formation, siRNA Loading and Intracellular Delivery
E. AYDINLIOGLU, M. ABDELGHANI, G. LE FER, J. C. M. VAN HEST, O. SANDRE, S. LECOMMANDOUX
Macromol. Chem. Phys. 224, 2200306 (2023)
- [P16] Emerging opportunities in bioconjugates of Elastin-like Polypeptides with synthetic or natural polymers
E. GARANGER, S. LECOMMANDOUX
Advanced Drug Delivery Reviews 191, 114589 (2022)
- [P17] Efficient Gene Delivery of Tailored Amphiphilic Polypeptides by Polyplex Surfing
P. KLEMM, J. SOLOMUN, M. RODEWALD, M. T. KUCHENBROD, V. HANSCH, F. RICHTER, J. POPP, C. HERTWECK, S. HOEPPNER, C. BONDUELLE, S. LECOMMANDOUX, A. TRAEGER, S. SCHUBERT
Biomacromolecules 23(11), 4718-4733 (2022)
- [P18] Effect of N-alkylation in N-carboxyanhydride (NCA) ring-opening polymerization kinetics
P. SALAS-AMBROSIO, A. TRONNET, M. BADRELDIN, S. JI, S. LECOMMANDOUX, S. HARRISSON, P. VERHAEGHE, C. BONDUELLE
Polymer Chemistry 13, 6149-6161 (2022)
- [P19] Mannose-based surfactant as biofunctional nanoemulsion stabilizer
P. G. ARGUDO, L. SPITZER, E. IBARBOURE, F. JEROME, H. CRAMAIL, S. LECOMMANDOUX
Colloids and Surfaces B: Biointerfaces 220, 112877 (2022)
- [P20] Memory Effect in Thermoresponsive Proline-based Polymers
M. BADRELDIN, R. LE SCOUARNEC, S. LECOMMANDOUX, S. HARRISSON, C. BONDUELLE
Angew. Chem. Int. Ed. 61(46), e202209530 (2022) **cover**
- [P21] Aqueous synthesis and self-assembly of bioactive and thermo-responsive HA-*b*-ELP bioconjugates
M. LEVÊQUE, Y. XIAO, L. DURAND, L. MASSE, E. GARANGER, S. LECOMMANDOUX
Biomaterials Science 10, 6365-6376 (2022)
- [P22] Assembly of Fluorescent Polymer Nanoparticles using different Microfluidic Mixers
H. CHEN, A. CELIK, A. MUTSCHLER, A. COMBES, A. RUNSER, A. KLYMCHENKO, S. LECOMMANDOUX, C. SERRA, A. REISCH
Langmuir 38(26), 7945-7955 (2022)
- [P23] Design and self-assembly of sugar-based amphiphiles: spherical to cylindrical micelles
P.G. ARGUDO, L. SPITZER, F. JEROME, H. CRAMAIL, L. CAMACHO, S. LECOMMANDOUX
Langmuir 38(24), 7535-7544 (2022)
- [P24] Tear of Lipid Membranes by Nanoparticles
M. ER-RAFIK, K. FERJI, J. COMBET, O. SANDRE, S. LECOMMANDOUX, M. SCHMUTZ, J.-F. LE MEINS, C. M. MARQUES
Soft Matter 18, 3318 (2022)
- [P25] The quantum dot vs. organic dye conundrum for ratiometric FRET-based biosensors, which one would you chose?
C. GRAZON, M. CHEN, P. LALLY, R. BAER, A. FAN, S. LECOMMANDOUX, C. KLAPPERICH, A. DENNIS, J. GALAGAN, M. GRINSTAFF
Chemical Science 13, 6715 (2022)
- [P26] An Allosteric Transcription Factor DNA-Binding Electrochemical Biosensor for Progesterone
K. SANKAR, R. BAER, C. GRAZON, R. C SABATELLE, S. LECOMMANDOUX, C. M. KLAPPERICH, J. E. GALAGAN, M.W. GRINSTAFF
ACS sensors 7(4), 1132-1137 (2022)
- [P27] Spatiotemporal Dynamic Assembly/Disassembly of Organelle-Mimics Based on Intrinsically Disordered Protein-Polymer Conjugates
H. ZHAO, E. IBARBOURE, V. IBRAHIMOVA, Y. XIAO, E. GARANGER, S. LECOMMANDOUX
Advanced Science 2102508 (2021)
- [P28] Elastin-like polypeptide based bioink: a promising alternative for 3D bioprinting
M. DAI, J.P. BELAIDI, G. FLEURY, E. GARANGER, M. REILLAND, X. SCHULTZE, S. LECOMMANDOUX
Biomacromolecules 22, 4956-4966 (2021)
- [P29] Aqueous ROPISA of aminoacid N-carboxyanhydrides: polypeptide block secondary structure

- controls nanoparticle shape anisotropy
C. GRAZON, P. SALAS-AMBROSIO, S. ANTOINE, E. IBARBOURE, O. SANDRE, A.J. CLULOW, B. BOYD, M.W. GRINSTAFF, S. LECOMMANDOUX, C. BONDUELLE
Polym. Chem. 12, 6242-6251 (2021)
- [P30] Self-assembled PEGylated amphiphilic polypeptides for gene transfection
P. KLEMM, M. BEHNKE, J.I. SOLOMUN, C. BONDUELLE, S. LECOMMANDOUX, S. TRAEGER, S. SCHUBERT
J. Mat. Chem. B 9, 8224-8236 (2021)
- [P31] Enhanced Dielectric Relaxation in Self-Organized Layers of Polypeptides Coupled to Platinum Nanoparticles: Temperature Dependence and Effect of Bias Voltage
L. MERLE, G. MANAI, A. PHAM, S. LECOMMANDOUX, P. DEMONT, C. BONDUELLE, S. TRICARD, A. MLAYAH, J. GRISOLIA
J. Phys. Chem. C 125, 41, 22643-22649 (2021)
- [P32] Photooxidation Responsive Elastin-Like Polypeptide Conjugates for Photodynamic Therapy Application
V. IBRAHIMOVA, J.A. GONZÁLEZ-DELGADO, M. LEVÊQUE, T. TORRES, E. GARANGER, S. LECOMMANDOUX
Bioconjugate Chemistry 32 (8), 1719-1728 (2021)
- [P33] Thermosensitive vesicles from chemically encoded lipid-grafted elastin-like polypeptides
V IBRAHIMOVA, H ZHAO, E IBARBOURE, E GARANGER, S LECOMMANDOUX
Angew. Chem. Int. Ed. 60, 15036-15040 (2021)
- [P34] Cyclic Poly (α -peptoid)s by Lithium bis (trimethylsilyl) amide (LiHMDS)-Mediated Ring-Expansion Polymerization: Simple Access to Bioactive Backbones
P. SALAS-AMBROSIO, A. TRONNET, M. SINCE, S. BOURGEADE-DELMAS, J.-L. STIGLIANI, A. VAX, S. LECOMMANDOUX, B. DUPUY, P. VERHAEGHE, C. BONDUELLE
J. Am. Chem. Soc. 143, 3697-3702 (2021) **cover**
- [P35] Coupling of RAFT polymerization and chemoselective post-modifications of elastin-like polypeptides for the synthesis of gene delivery hybrid vectors
L. M. BRAVO-ANAYA, J. ROSSELGONG, K. G. FERNANDEZ-SOLIS, Y. XIAO, A. VAX, E. IBARBOURE, A. RUBAN, C. LEBLEU, G. JOUCLA, B. GARBAY, E. GARANGER, S. LECOMMANDOUX
Polym. Chem. 12, 226-241 (2021)
- [P36] Sequential acid-catalyzed alkyl glycosylation and oligomerization of unprotected carbohydrates
L. SPITZER, S. LECOMMANDOUX, H. CRAMAIL, F. JEROME
Green Chem. 23, 1361-1369 (2021)
- [P37] Thermosensitive Hybrid Elastin-like Polypeptide-Based ABC Triblock Hydrogel
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- [P209] 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
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- [P210] X-ray diffraction study of 'side-on fixed' homopolysiloxanes from nematic to smectic C phases
M. F. ACHARD, S. LECOMMANDOUX, F. HARDOUIN,
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S. LECOMMANDOUX, L. NOIREZ, M. MAUZAC, F. HARDOUIN
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"Grand public" articles

- [P212] Polymères et interactions avec les milieux biologiques
J. NICOLAS, E. GARANGER, S. LECOMMANDOUX
Actualité Chimique 422-423, 99-104 (2017)
- [P213] 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)
- [P214] 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. RAVAIN, C. SCHATZ
Actualité Chimique 338-339, 112-120 (2010)
- [P215] Copolymères à blocs à base de polypeptides : nanobiotechnologies supramacromoléculaires
S. LECOMMANDOUX, Y. GNANOU
Bioforum France 1, 1-4 (2005)
- [P216] Scope of peptide-based self-assembled diblock copolymers in nanobiotechnologies
Y. GNANOU, S. LECOMMANDOUX
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Book chapters

- [P217] Giant Hybrid Polymer/Lipid Vesicles (GHV)
T. P. T. DAO, K. FERJI, F. FERNANDES, M. PRIETO, S. LECOMMANDOUX, E. IBARBOURE, O. SANDRE, J-F. LE MEINS
"The Giant Vesicle Book, Section VI. GUVs as complex membrane containers", Chapter 27, R. Dimova, C. Marques, Editors, CRC Francis & Taylor (2019)
- [P218] Dynamic Assembly of Block-Copolymers
D. QUEMENER, A. DERATANI, S. LECOMMANDOUX
Constitutional Dynamic Chemistry, Topics in Current Chemistry Volume 322, pp 165-192 (2011)
- [P219] 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)
- [P220] 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)
- [P221] 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)
- [P222] 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)
- [P223] 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)

Edition

- [P224] Block copolymers in Nanosciences

Patents

- [P225]** Stimuli responsive copolymers, the polymersomes comprising the same and their use in drug delivery
P. Dalko, O. Sandre, G. Ramniceanu, S. Lecommandoux, Z. S. Chinoy, B.T. Doan, P. Dunkel, A. Kumar (PCT/EP2020/085615; WO2021116331A1 (17/6/2021))
- [P226]** Bioconjugate comprising a photosensitizer unit, method for its preparation and use thereof
S. Lecommandoux, E. Garanger, V. Ibrahimova, T. Torres-Cebada, J.A. Goncalvez-Delgado (EP 21305116)
- [P227]** Synthèse de copolymères à base de peptides en phase aqueuse
C. Bonduelle, C. Gazon, E. Garanger, S. Lecommandoux (FR 19 09678)
- [P228]** Bioconjugates of polysaccharides and elastin-like polypeptides and uses thereof
Y. Xiao, E. Garanger, S. Lecommandoux (EP 18306238.9 US 17/279,653)
- [P229]** Lipoaminoacides et leurs utilisations comme actif antipelliculaire
X. Schultze, S. Lecommandoux, H. Duan (FR1914961)
- [P230]** Particules de copolymère dibloc inhibiteur de hyaluronidase
H. Duan, S. Lecommandoux (OA18293)
- [P231]** Procédé de traitement de la peau ridée par injection de particules de copolymère dibloc
H. Duan, S. Chodorowski-Kimmes (OA18294)
- [P232]** Hydrogel pour stimuler la neurotisation, l'ostéogenèse et l'angiogenèse
B. Paiva, J. Amédée, B. Garbay, E. Garanger, S. Lecommandoux (FR 1851770)
- [P233]** New polymeric emulsifier and uses thereof for the encapsulation of hydrophobic or hydrophilic active compounds. S. Lecommandoux, D. Dupin, I. Loinaz Bordonabe, H.J. Grandetelleria
EP 17306354.6; PCT/EP2018/077365; WO/2019/068936
- [P234]** Derivatives of elastin-like polypeptides and uses thereof
S. Lecommandoux, E. Garanger, T. Deming (EP15 306 247.6)
- [P235]** Perfuming compositions and uses thereof. D. Berthier, S. Lecommandoux, I. Schmidt, C. Schatz
WO 2010/046832 A2 (Collaboration Firmenich, Switzerland)
- [P236]** 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; EP 09759750 A 20091030; WO 2010/049611 A1 (Licence Adocia, L'Oreal)

ORAL COMMUNICATIONS

Invited oral presentations in national and international conferences

- [C1] Protocells and Therapeutics: Harnessing Biomimicry with Self-Assembled Polymersomes and Bioconjugates
S. LECOMMANDOUX
International Conference On Nanomedicine And Nanobiotechnology – ICONAN 2024, Barcelona **Spain**, (January 15-17, **2024**) **Plenary Lecture**
- [C2] Biomimetic polymersomes for smart therapeutics and protocells
S. LECOMMANDOUX
Chemistry Biology interface Day (CDIB2023), IECB-Bordeaux, **France** (November 13, **2023**)
- [C3] Biomimetic polymersomes as smart functional therapeutics and protocells
S. LECOMMANDOUX
Polymer Meeting 15 (PM15), Bratislava, **Slovakia** (September 4-7, **2023**) **Plenary Lecture**
- [C4] Biomimetic protein bioconjugates for biomaterials and artificial organelles design
S. LECOMMANDOUX
ACS Fall 2023, Bioconjugate Chemistry Lectureship and Award: Symposium in Honor of Jean-Christophe Leroux (PMSE), San Francisco, **USA** (August 13-17, **2023**)
- [C5] Biomimetic polymer vesicles: from nanomedicines to artificial cells
S. LECOMMANDOUX
13th SPSJ International Polymer Conference (IPC2023) Sapporo, **Japan** (July 18-21, **2023**) **Plenary Lecture**
- [C6] Biomimetic polymer bioconjugates for biomaterials and artificial cells design
S. LECOMMANDOUX
SUPRALife, Aveiro, **Portugal** (19-21 March **2023**) **Plenary Lecture**
- [C7] Polypeptide and Protein Based Materials in Artificial Cells Design
S. LECOMMANDOUX
Gordon Research Conferences: Peptide Materials, Galveston, TX, **USA** (January 15-20, **2023**)
- [C8] Biomimetic polymersomes as smart functional therapeutics
S. LECOMMANDOUX
17th Pacific Polymer Conference (PPC17), Symposium "Polymeric Nanomedicine/Drug Delivery", Brisbane, **Australia** (December 11-14, **2022**)
- [C9] Biomimetic protein bioconjugates for biomaterials and artificial cells design
V. IBRAHIMOVA, M. LEVEQUE, H. ZHAO, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
17th Pacific Polymer Conference (PPC17), Symposium "Bioinspired, Biomimetic and Bio-conjugates", Brisbane, **Australia** (December 11-14, **2022**)
- [C10] Precision Protein-like Polymers as Smart Functional Biomaterials
H. ZHAO, C. SCHVARTZMAN, V. IBRAHIMOVA, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
1st International Symposium of Precision Polymer Chemistry for Functional Materials (hybrid) **China** (3-4 November **2022**)
- [C11] Biomimetic polymer self-assemblies: from smart nanomedicines to protocells
S. LECOMMANDOUX
"International Conference on Sustainable Polymers and Materials", VISTEC, **Thailand** virtual (15-16 September, **2022**)
- [C12] Elastin-like polypeptide bioconjugates: from smart biomaterials to cell-inspired mechanisms
H. ZHAO, C. SCHVARTZMAN, V. IBRAHIMOVA, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
Adaptive Polymers and Systems, MAKRO 2022, Biennial Meeting of the GDCh-Division of Macromolecular Chemistry Together with SFB 985" Functional Microgels and Microgel Systems" Aachen, **Germany** (12 - 14 September **2022**)
- [C13] Glyco- and lipo-protein bioconjugates for biomedical applications
V. IBRAHIMOVA, M. LEVEQUE, H. ZHAO, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
ACS Fall National meeting 2022, PMSE "Advances in Bioconjugate Materials for Biomedical Applications", Chicago, **USA** (August 21-25, **2022**)
- [C14] Biomimetic and biofunctional polypeptide-based self-assemblies
S. LECOMMANDOUX
13th European and Global Summit for Nanomedicine, CLINAM Summit online (May 2 – 4, **2022**)
- [C15] Biomimetic polymers as smart functional therapeutic

- S. LECOMMANDOUX
Advanced Functional Polymers for Medicine AFPM 2022, CEMEF Nice, **France** (June 1-3, **2022**)
- [C16] Bioinspired polymersomes as mimic of virus and cell for functional biomaterials
V. IBRAHIMOVA, H. ZHAO, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
ACS Spring National meeting 2022, Division POLY Session "Engineering Functionality into Bio(mimetic) Polymers", San Diego, **USA** (March 20-24, **2022**)
- [C17] Biomimetic synthetic lipoproteins as model membranes with controlled permeability
V. IBRAHIMOVA, H. ZHAO, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
ACS Spring National meeting 2022, Division COLL Session "Biomembrane Synthesis, Structure, Mechanics, and Dynamics", San Diego, **USA** (March 20-24, **2022**)
- [C18] Biomimetic and Biofunctional Polymersomes: from Nanomedicine to Protocells
V. IBRAHIMOVA, H. ZHAO, R. PETITDEMANGE, M. BRAVO, G. LE FER, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
IUPAC CCCE 2021 virtual, **Canada** (August 13-20, **2021**)
- [C19] Biomimetic and bio-functional polymersomes
V. IBRAHIMOVA, H. ZHAO, R. PETITDEMANGE, M. BRAVO, G. LE FER, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
4ème Colloque National sur les copolymères amphiphiles (Copamphi), Nancy, **France** (June 16-18, **2021**)
- [C20] Bioactive nanomaterials by design from Bio-inspired polypeptide-based copolymers
V. IBRAHIMOVA, H. ZHAO, R. PETITDEMANGE, M. BRAVO, G. LE FER, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
European Materials Research Society E-MRS Spring Virtual Meeting, Strasbourg, **France** (May 31- June 4, **2021**)
- [C21] Biomimetic and biofunctional polymersomes: from nanomedicine to protocells
V. IBRAHIMOVA, H. ZHAO, R. PETITDEMANGE, M. BRAVO, G. LE FER, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
Sino-French Innovative Nanomedicine Forum from Donghua University, **China** (May 21, **2021**)
- [C22] Biomimetic and biofunctional polymersomes: from nanomedicine to protocells
V. IBRAHIMOVA, H. ZHAO, R. PETITDEMANGE, M. BRAVO, G. LE FER, E. IBARBOURE, E. GARANGER, S. LECOMMANDOUX
2nd Virtual European Polymer Conference, "A tribute to Francoise Winnik and her scientific legacy" Helsinki, **Finland** (19-21 April **2021**)
- [C23] Self-assembly of biomimetic polypeptide and protein based copolymers
V. IBRAHIMOVA, H. ZHAO, E. IBARBOURE, S. MAZZAFERRO, H. DUAN, R. PETITDEMANGE, C. BONDUELLE, E. GARANGER, S. LECOMMANDOUX
ACS Spring Meeting 2021 "Macromolecular Chemistry: The Second Century", COLL Session "Self-assembly in Polymer Systems" **USA** (April 9, **2021**)
- [C24] Bioactive nanomaterials by design from self-assembly of polypeptide-based biohybrid copolymers
E. GARANGER, C. BONDUELLE, B. GARBAY, S. LECOMMANDOUX
2020 Spring Meeting of the European Materials Research Society (E-MRS), Strasbourg, **France** (May 25 to 29, **2020**)
- [C25] Bio-inspired polymersomes as mimic of virus and cell for functional biomaterials
S. LECOMMANDOUX
ACS Spring 2020 National Meeting & Expo, Philadelphia, PA, **USA** (March 22-26, **2020**)
- [C26] Self-assembly of biomimetic polypeptide and protein based copolymers: From conformational control to functional biomaterials
S. LECOMMANDOUX
ACS Spring 2020 National Meeting & Expo, Philadelphia, PA, **USA** (March 22-26, **2020**)
- [C27] Towards functional artificial cells from compartmentalized polymersomes
S. LECOMMANDOUX
Prospectus for NSF Sponsored RCN Meeting "Information-driven Biomaterials", Philadelphia, PA, **USA** (January 16-17, **2020**)
- [C28] From bioactive polymeric vesicles to autonomous cell-like reactors
H. DUAN, K. UPADHYAY, S. MAZZAFERRO, M. MARGUET, A. PEYRET, H. ZHAO, E. GARANGER, S. LECOMMANDOUX
SFNano C'Nano Joint meeting 2019, Dijon, **France** (December 10-12, **2019**) **Keynote Lecture**
- [C29] Polymer-based vesicles: from hierarchical self-assembly to eukaryotic cell mimic
S. LECOMMANDOUX

- BioSynSys/MaxSynBio/SynBio Symposium, Bordeaux, **France** (November 20-22, **2019**)
- [C30] Lipid and Polymer based vesicles: from biomimetic membranes towards smart drug delivery systems
S. LECOMMANDOUX
15th GERLI Lipidomics Meeting "Biodiversity of lipid species – Benefit for nutrition and effects on health", UTC Compiègne, **France** (Sept 30- Oct 2, **2019**)
- [C31] Biomimetic polymer-based self-assemblies: Future directions towards functional biomaterials
S. LECOMMANDOUX
ACS Fall 2019 Meeting, Symposium POLY "Future of Biomacromolecules at a Crossroads of Polymer Science & Biology", San Diego, CA, **USA** (August 25 - 29, **2019**)
- [C32] Synthesis and self-assembly of biomimetic polypeptide-based copolymers towards functional nanomaterials
S. LECOMMANDOUX
ACS Fall 2019 Meeting, Symposium PMSE "Design, Synthesis & Engineering of Polypeptides for Biological & Biomedical Application", San Diego, CA, **USA** (August 25 - 29, **2019**)
- [C33] Biomimetic polymersomes as innovative nanomedicines
S. LECOMMANDOUX
Symposium on innovative polymers for the nanomedicine of the 21st century, Jena, **Germany** (July 15-17, **2019**)
- [C34] Biomimetic and biofunctional self-assembled polymer vesicles
S. LECOMMANDOUX
IUPAC 2019, Chemistry for life, session "Polymers and Soft Materials for Life Sciences", Paris, **France** (July 7-12, **2019**) [Keynote Lecture](#)
- [C35] Biomimetic and biofunctional polymersomes: from synthetic virus to artificial cells
S. LECOMMANDOUX
European Summer School 2019 "Soft Matter & Smart Materials", Strasbourg, **France** (July 1-5, **2019**)
- [C36] Biomimetic polymersomes as active functional biomaterials
S. LECOMMANDOUX
EPF 2019, European Polymer Congress, Heraklion, Crete, **Greece** (June 9-14, **2019**) [Keynote Lecture](#)
- [C37] Design of polymer-based asymmetric membranes and compartmentalized vesicles
A. PEYRET, L. BEAUTÉ, E. IBARBOURE, J. F. LE MEINS, O. SANDRE, N. MCCLENAGHAN, S. LECOMMANDOUX
257th ACS Spring National Meeting, Session COLL "Biomembrane Synthesis, Structure, Mechanics & Dynamics", Orlando, **USA** (March 31 – April 4, **2019**)
- [C38] Design of polypeptide-based bioconjugates and their self-assembly into functional biomaterials
E. GARANGER, C. BONDUELLE, S. LECOMMANDOUX
ACS SPRING 2019 257th ACS Spring National Meeting, Session PMSE "Molecular Engineering of Peptide Assemblies", Orlando, **USA** (March 31 – April 4, **2019**)
- [C39] Polypeptide and protein-based bioconjugates as innovative functional biomaterials
L.M. BRAVO ANAYA, E. GARANGER, B. GARBAY, S. LECOMMANDOUX
257th ACS Spring National Meeting, Session POLY "Polymer Bioconjugates for a Changing World", Orlando, **USA** (March 31 – April 4, **2019**)
- [C40] Biomimetic polymer-based polymersomes as functional biomaterials
S. LECOMMANDOUX
257th ACS Spring National Meeting, Session POLY "POLYMERS & BIOMIMICRY", Orlando, **USA** (March 31 – April 4, **2019**)
- [C41] Biomimetic polymer vesicles as active functional biomaterials
S. LECOMMANDOUX
6th International Conference on Multifunctional, Hybrid and Nanomaterials, Stiges, **Spain** (March 11-15, **2019**)
- [C42] Biomimetic Biofunctional and Bioactive Polymer-based Vesicles
S. LECOMMANDOUX
Colloque SCF AGPI Formulation Days 2019 "Advances in formulation of active ingredients" CPE-Lyon, **France** (January 10-11, **2019**)
- [C43] Auto-assemblages polymères biomimétiques et biomatériaux fonctionnels
S. LECOMMANDOUX
Réunion de la Section de chimie "Prospectives en Chimie", Académie des sciences, Paris, **France** (November 6, **2018**)
- [C44] Biomimetic and biofunctional polymersomes for therapy and theranostic
S. LECOMMANDOUX

- 1st Sino-France Healthcare Theranostics Forum, Donghua Univ. Shanghai, **China** (November 12-13, **2018**)
- [C45] Biomimetic biofunctional and bioactive polymersomes based-on polypeptides, polysaccharides and proteins
S. LECOMMANDOUX
13th France-Japan DDS symposium "A new bridge between drug delivery research and unmet medical needs", Ise-Shima, **Japan** (October 21-24, **2018**)
- [C46] Biomimetic polypeptide-based nanostructures in (nano)medicine
S. LECOMMANDOUX
10th ECNP International conference on nanostructured polymers and Nanocomposites, San Sebastian, **Spain** (October 3-5, **2018**), **Keynote Lecture**
- [C47] Design and Self-Assembly of polypeptide and protein-like amphiphilic copolymers
S. LECOMMANDOUX
5th Sino-French Bilateral Workshop on Macromolecules and Soft Matter, Wuhan, **China** (27-30 September **2018**)
- [C48] Biomimetic self-assembly of amphiphilic polymers and lipids towards biofunctional artificial cells
S. LECOMMANDOUX
International Conference on Self-Assembly of Colloidal Systems (SACS'18), Bordeaux, **France** (20-22 September **2018**), **Plenary Lecture**
- [C49] Biomimetic Polymer-based Self-Assembled Biomaterials
S. LECOMMANDOUX
29th Annual Meeting of the European Society for Biomaterials ESB 2018, Maastricht, **the Netherlands** (9-13 September, **2018**)
- [C50] Lipid and Polymer based vesicles: from biomimetic membranes towards smart drug delivery
S. LECOMMANDOUX
Lipids and Polymers in pharmaceutical technology: lifelong companions, Les journées Galéniques de St. Remy de Provence, Gattefossé, **France** (5-8 September **2018**)
- [C51] Biomimetic polymer-based self-assembled nanomedicine
S. LECOMMANDOUX
256th ACS National Meeting, Symposium COLL "Nanomedicines: From Fundamentals to Applications" Boston, **USA** (August 19-23, **2018**)
- [C52] Design of polypeptide and protein-based bioconjugates and their self-assembly into functional biomaterials
S. LECOMMANDOUX
256th ACS National Meeting, Symposium PMSE "General Papers & New Concepts in Polymeric Materials" Boston, **USA** (August 19-23, **2018**)
- [C53] Biomimetic polymer self-assemblies: virus and cell mimics towards functional biomaterials
S. LECOMMANDOUX
Congrès SCF 2018, Montpellier, **France** (2-4 July **2018**)
- [C54] Biomimetic and multivalent glycopolypeptide-based micelles and polymersomes
S. LECOMMANDOUX
17th Polymers and Organic Chemistry Conference POC2018, Palavas Les Flots, **France** (3-7 June **2018**), **Keynote Lecture**
- [C55] Biomimetic and Multi-functional Polymersomes for nanomedicine
S. LECOMMANDOUX
Advanced Functional Polymers in Medicine AFPM 2018, Montpellier **France** (16-18 May **2018**)
- [C56] Innovative Biomimetic Polymer-based Biomaterials
S. LECOMMANDOUX
11th World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology, Granada, **Spain** (19-22 March **2018**), **Plenary Lecture**
- [C57] Biomimetic polymer self-assemblies for advanced biomaterials design
S. LECOMMANDOUX
Makromol. Kolloquium Mainz, Mainz, **Germany** (16 January **2018**)
- [C58] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX
1^{ère} Journée Scientifique du Département Matière-Matériaux de l'Université Bretagne Loire, Rennes, **France** (21 November **2017**)
- [C59] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX

- International Symposium on Bioinspired Macromolecular Systems, Aveiro, **Portugal** (6-8 November 2017)
- [C60] Multivalent Glycopolypeptide-Based Micelles and Polymersomes
S. LECOMMANDOUX
International Symposium on "Multivalent Interactions of Pathogens with Biological Surfaces" Berlin, **Germany** (October 4-6, 2017)
- [C61] Glycopolypeptide self-assembled nanomaterials as efficient delivery systems with multivalent properties
S. LECOMMANDOUX
254th ACS National Meeting, Session COLL "Targeted Nanosystems for Therapeutic Applications: New Concepts, Dynamic Properties, Efficiency & Toxicity", Washington DC, **USA** (August 20-24, 2017)
- [C62] Design and Self-Assembly of polypeptide and Elastin-like amphiphilic copolymers
E. GARANGER, S. LECOMMANDOUX
254th ACS National Meeting, Session PMSE "Synthesis, Self-Assembly and Applications of Peptides & Polypeptides", Washington DC, **USA** (August 20-24, 2017)
- [C63] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX
40th Anniversary Symposium Stupp Lab, Northwestern University, **USA** (June 24-25, 2017)
- [C64] Auto-assemblage en solution de copolymères à blocs biomimétiques : *Virus and Cell Mimics towards innovative biomaterials*
S. LECOMMANDOUX
GFP Ecole Thématique, Stage Pédagogique "Assemblages macromoléculaires non covalents " Pau, **France** (12-14 June 2017)
- [C65] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX
Swiss Nano Convention 2017, Bio-Inspired Materials Session, Fribourg, **Switzerland** (1-2 June 2017)
- [C66] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX
Frontiers in Polymer Sciences, Seville, **Spain** (17-19 May 2017), **Plenary Lecture**
- [C67] Design of polypeptide and protein-based copolymer self-assembled biomaterials
E. GARANGER, O. SANDRE, B. GARBAY, S. LECOMMANDOUX
253rd ACS National Meeting, Session PMSE "Molecular Engineering of Peptide Assembly", San Francisco, **USA** (April 2-6, 2017)
- [C68] Smart Biomimetic Polymersomes as Virus and Cell Mimics
S. LECOMMANDOUX
253rd ACS National Meeting, Session POLY "Next Generation Smart Materials", San Francisco, **USA** (April 2-6, 2017)
- [C69] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials
S. LECOMMANDOUX
2017 International Conference on Biomacromolecules and Biomimetic Materials, Boracay **Filipino** (March 6-8, 2017)
- [C70] Design of Biomimetic Polymersomes as Virus and Cell Mimics
S. LECOMMANDOUX
Macromolecular Colloquium Freiburg , **Germany** (15 – 17 February 2017)
- [C71] Block copolymer self-assembly as a tool towards biofunctional virus and cell mimicry
S. LECOMMANDOUX
Journée Scientifique de la Société Royale de Chimie 2016 "Technologies et approches innovantes pour la chimie du futur", Univ. Liège, **Belgium** (October 13, 2016)
- [C72] Bioactive glycopolypeptide self-assembled biohybrid nanomaterials
S. LECOMMANDOUX
12th France-Japan Drug Delivery Systems Symposium on "Recent Achievements en Future Challenges in Drug Delivery Research", Abbaye de Vaux de Cernay, **France** (October 9-11, 2016)
- [C73] Bioactive glycopolypeptide self-assembled biohybrid nanomaterials
S. LECOMMANDOUX
4th Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2016), Worldhotel Grand Dushulake, Suzhou, **China**, (September 23-26, 2016)
- [C74] Bioactive glycopolypeptide self-assembled biohybrid nanomaterials
S. LECOMMANDOUX

- The 2nd International Conference on NanoMaterials for Health, Energy and the Environment, Flic-en-Flac, **Mauritius**, (September 7-11, **2016**)
- [C75] Biomimetic polymersomes from controlled self-assembly of block copolymers
C. BONDUELLE, K. UPADYHAY, J. HUANG, A. HEISE, S. LECOMMANDOUX
APA 2016 International Conference on Advanced Polymers, Biomaterials, Bioengineering & Nano Drug Delivery, Flic-en-Flac, **Mauritius** (September 5-7, **2016**)
- [C76] Biomimetic compartmentalized polymersomes as virus and cell mimics
S. LECOMMANDOUX
15^{ème} Journées de la Matière Condensée JMC15, Bordeaux, **France** (August 22-26, **2016**) **Plenary Lecture**
- [C77] Precision Polymer Assemblies with Biological Activity
C. BONDUELLE, R. PETITDEMANGE, D. BACINELLO, D. TATON, E. GARANGER, S. LECOMMANDOUX
252nd ACS National Meeting, Symposium POLY "Sequence-Controlled Polymers" Philadelphia, PA, **USA** (August 21-25, **2016**)
- [C78] Self-assembled glycopolypeptide copolymer nanoparticles: Bioactivity and multivalency
C. BONDUELLE, K. UPADYHAY, J. HUANG, A. HEISE, S. LECOMMANDOUX
252nd ACS National Meeting, Symposium COLL "Synergy at the Bio-Nano Interface" Philadelphia, PA, **USA** (August 21-25, **2016**)
- [C79] Biomimetic compartmentalized polymersomes from controlled self-assembly of block copolymer
A. PEYRET, M. MARGUET, E. IBARBOURE, O. SANDRE, N. MCCLENAGHAN, S. LECOMMANDOUX
252nd ACS National Meeting, Symposium POLY "Materials Genome Approach to Structure & Function" Philadelphia, PA, **USA** (August 21-25, **2016**)
- [C80] Design of polypeptide, pseudo-polypeptide and protein-based biomaterials
C. LEGROS, C. BONDUELLE, R. PETITDEMANGE, D. BACINELLO, D. TATON, E. GARANGER, S. LECOMMANDOUX
252nd ACS National Meeting, Symposium POLY "3rd Symposium on Poly(2-Oxazoline)s & Polypeptoids" Philadelphia, PA, **USA** (August 21-25, **2016**)
- [C81] Biomimetic compartmentalized polymersomes from controlled self-assembly of block copolymer
A. PEYRET, M. MARGUET, E. IBARBOURE, O. SANDRE, N. MCCLENAGHAN, S. LECOMMANDOUX
2016 Warwick International Conference on Polymer Chemistry, Warwick, **UK** (11-14 July **2016**)
- [C82] Biomimetic compartmentalized polymersomes from controlled self-assembly of block copolymer
A. PEYRET, M. MARGUET, E. IBARBOURE, O. SANDRE, N. MCCLENAGHAN, S. LECOMMANDOUX
80th Prague Meeting on Macromolecules on "Self-Assembly in the World of Polymers" Prague, **Czech Republic** (11-14 July **2016**)
- [C83] Bio-inspired polymersomes from controlled self-assembly of bio-hybrid copolymers
S. LECOMMANDOUX
Indo-French Conference 2016 on Functional Polymers and Self-assembled systems Strasbourg, **France**, (23-25 May **2016**)
- [C84] Biomimetic polymersomes from controlled self-assembly of block copolymer
S. LECOMMANDOUX
PACIFICHEM 2015, Symposium: Macromolecular Self-Assembly for Smart Biomaterials (#196), Honolulu, Hawaii, **USA** (December 15 - 20, **2015**)
- [C85] Design of polypeptide and/or polysaccharide based copolymer self-assembled biomaterials
S. LECOMMANDOUX
PACIFICHEM 2015, Symposium: Synthetic Biopolymers (#37), Honolulu, Hawaii, **USA** (December 15 - 20, **2015**)
- [C86] Self-assembled glycopolypeptide copolymer nanoparticles: Bioactivity and multivalency
S. LECOMMANDOUX
PACIFICHEM 2015, Symposium: Self-assembled Biofunctional Nanomaterials (#433), Honolulu, Hawaii, **USA** (December 15 - 20, **2015**)
- [C87] Biomimetic polymer self-assemblies and nanomedicine
S. LECOMMANDOUX
GFP 2015, 44^{ème} colloque national du Groupe Français des Polymères, Grand-Duché de **Luxembourg** (23-26 November, **2015**)
- [C88] Self-assembled polymersomes as virus and cell mimics
S. LECOMMANDOUX
4th Sino-French Workshop on Macromolecules and Soft Matter 2015, Strasbourg **France** (12-14 October **2015**)
- [C89] Self-assembly and properties of glycopolypeptide biohybrid materials

- S. LECOMMANDOUX
250th ACS National Meeting, POLY "Henkel Award for Outstanding Graduate Research in Polymer Chemistry", Boston, Massachusetts **USA** (August 16-20, **2015**)
- [C90] Biomimetic polymersomes
S. LECOMMANDOUX
Precision Polymer Material P2M conference, Final Meeting ; Lacanau, **France** (May 26-29, **2015**)
- [C91] Bioinspired Polymersomes from Controlled Self-Assembly of Biohybrid copolymers
S. LECOMMANDOUX
MRS Spring Meeting, Symposium JJ: Exploiting Bioinspired Self-Assembly for the Design of Functional and Responsive Materials, San Francisco, California **USA**, (April 6-10, **2015**)
- [C92] From compartmentalized polymersomes to biomimetic artificial cell
M. MARGUET, A PEYRET, E. IBARBOURE, N. MCCLENAGHAN, J.-F. LE MEINS, O. SANDRE, S. LECOMMANDOUX
ACS 249th National Meeting, COLL "Biomembrane Synthesis, Structure, Mechanics, & Dynamics"
Denver, CO, **USA** (March 22-26, **2015**)
- [C93] Magnetic field triggered drug release from polymersomes for cancer therapeutics
J. THÉVENOT, H. OLIVEIRA, C. SANSON, O. SANDRE, S. LECOMMANDOUX
ACS 249th National Meeting, PMSE "Stimulus-Responsive Assemblies and Materials"
Denver, CO, **USA** (March 22-26, **2015**)
- [C94] Biomimetic Polymersomes for Therapy and Imaging
S. LECOMMANDOUX
2nd meeting ERC-BIOMIM in PHELMA-MINATEC, Grenoble, **France** (March 11-13, **2015**)
- [C95] Biomimetic Polymersomes for Therapy and Imaging
S. LECOMMANDOUX
Colloque Interfaces Chimie des Matériaux, Collège de France, Paris, **France** (March 17, **2015**)
- [C96] Biomimetic Polymersomes from controlled self-assembly of block copolymers
S. LECOMMANDOUX
MACRO 2015, International Symposium on Polymer Science and Technology, IACS, Kolkata, **India** (23-26 January, **2015**), **Plenary Lecture**
- [C97] From compartmentalized polymersomes to "plastic cells"
S. LECOMMANDOUX
Synthetic Biology in Bordeaux SB2 meeting, Bordeaux, **France** (Nov. 20-21, **2014**)
- [C98] Complex and Smart Polymersomes: from Biomimicry to Drug-Delivery
S. LECOMMANDOUX
11th France-Japan DDS Symposium "Recent Achievements and Further Challenges in Drug Delivery Research", Awaji island, **Japan** (October 5-8, **2014**)
- [C99] Biomimetic Polymer Vesicles in Nanomedicine
S. LECOMMANDOUX
International Symposium on Materials for Enabling Nanodevices, National Cheng Kung University, Tainan, **Taiwan** (September 3-5, **2014**)
- [C100] Synthesis and Properties of Glycopolypeptide Biohybrid Materials
S. LECOMMANDOUX
MACRO IUPAC 2014, Session « Transnational Cal in Polymer Science » Chiang Mai, **Thailand** (July 6-11 **2014**)
- [C101] Copolymères auto-assemblés pour l'encapsulation d'actifs thérapeutiques
S. LECOMMANDOUX
4^{ème} journées GFP Ile de France, « Systèmes macromoléculaires à l'interface avec le vivant », Paris, **France** (July 1, **2014**)
- [C102] Synthetic Cells and Interfaces
S. LECOMMANDOUX (Discussion Leader)
Gordon Research Conference on Biointerface Science, Engineered Biomolecular Interfaces, Lucca (Barga), **Italy** (June 15-20, **2014**)
- [C103] Biomimetic self-assemblies: polymersomes and PiPs
S. LECOMMANDOUX, J.-F. LE MEINS, C. SCHATZ, O. SANDRE, E. GARANGER
2nd UBordeaux-UCLA workshop on Polymers, Bordeaux, **France** (June 9-11, **2014**)
- [C104] Complex and Smart Polymersomes: from Biomimicry to Drug Deliver
S. LECOMMANDOUX
The 6th international symposium on Polymer Chemistry, Shanghai, **China** (June 4-7, **2014**)
- [C105] Biomimetic Polymersomes for Therapy and Theranostics

- S. LECOMMANDOUX
Bordeaux-Kyoto Symposium, Session 10 : New Generation Functional Materials for Diagnosis and Cure of Diseases, Bordeaux, **France** (May 5-6, **2014**)
- [C106] Biomimetic Polypeptide and Polysaccharide Based Polymersomes for Nanomedicine
S. LECOMMANDOUX
The Hebrew University Center of Nanosciences and Nanotechnology annual conference, Royal Simonim Dead Sea Hotel, **Israel** (April 23-24, **2014**)
- [C107] Bio-inspired and bio-functional polymersomes
S. LECOMMANDOUX
International Conference on Nanosciences and Healthcare, C-Nano IdF, Paris, **France** (Nov. 8, **2013**)
- [C108] 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**)
- [C109] Biomimetic and compartmentalized self-assembled polymersomes
S. LECOMMANDOUX
16ème Colloque sur les Systèmes anisotropes Auto-organisés (CFCL13) Strasbourg, **France** (3-6 sept. **2013**)
- [C110] 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**)
- [C111] 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**)
- [C112] 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**)
- [C113] Biomimetic polypeptide and polysaccharide based bioconjugates
S. LECOMMANDOUX
226th ACS National Meeting, PMSE, Session "Bioconjugates and Hybrid Biomaterials", Indianapolis, **USA** (Sept. 8-12, **2013**)
- [C114] 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**)
- [C115] 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**)
- [C116] 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**)
- [C117] 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**)
- [C118] Biomimetic polypeptide and polysaccharide based polymersomes for therapy and diagnosis
S. Lecommandoux
NanoBioMed 2013, Bilbao, **Spain** (23-26 April **2013**)
- [C119] Nanotechnology in cancer: from fiction to reality
S. LECOMMANDOUX
Pharmapack 2013, Targeted drug delivery via convergent technologies, Grande Halle de la Villette, Paris, **France** (12-13 Feb. **2013**)
- [C120] 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**)
- [C121] 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**)
- [C122] 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**)
- [C123] Biomimetic glycoprotein assemblies for therapy and imaging
S. LECOMMANDOUX
10th France-Japan DDS 2012, « In memory to Professor Gérard Délérès » Bordeaux, **France** (10-13 October **2012**)
- [C124] Polymer Nanotechnology and life sciences
S. LECOMMANDOUX
Univ. Massachusetts (UMASS) – Univ. Bordeaux International Workshop on Polymers, Bordeaux, **France** (September 27, **2012**)
- [C125] 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**)
- [C126] 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**)
- [C127] 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**)
- [C128] Smart and complex polymersomes: from Biomimicry to Drug Delivery
S. LECOMMANDOUX
Polymer Chemistry 2012, Changchun, **China** (June 2-4, **2012**)
- [C129] 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**)
- [C130] 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**)
- [C131] 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**)
- [C132] 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**)
- [C133] Biomimetic block copolymer vesicles and their use for therapy and imaging
S. LECOMMANDOUX
8th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Istanbul, **Turkey** (March 19-22 **2012**)
- [C134] 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**)
- [C135] 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**)
- [C136] Polymer Nanotechnology for Life Sciences
S. LECOMMANDOUX
French-Texan Nanomedicine Workshop, Houston, **USA** (August 29-30, **2011**)
- [C137] Magnetic polymersomes for theranostics in cancer

- S. LECOMMANDOUX
Theranostics for Personalised Medicine, Dexter House, London, **UK** (18-19 May **2011**)
- [C138]** 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**)
- [C139]** 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**)
- [C140]** 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**)
- [C141]** 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**)
- [C142]** 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**)
- [C143]** 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**).
- [C144]** 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)
- [C145]** 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**).
- [C146]** 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**)
- [C147]** 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 Macromolecular and Hybrid Systems in Internal and External Fields » Weingarten, **Germany** (June 10-11, **2010**)
- [C148]** 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**)
- [C149]** Polypeptide and polysaccharide based polymersomes : biomimetic nano-carriers for cancer therapy
S. LECOMMANDOUX
Polymeric Biomaterials Conference. Reading, **UK** (April 15-16, **2010**)
- [C150]** 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**)

- [C151] 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**)
- [C152] 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**)
- [C153] 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**
- [C154] 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**)
- [C155] Polymer Vesicles in Drug Delivery
S. LECOMMANDOUX
NSF-Mauritius Workshop on Biomaterials, **Mauritius** (30/11 – 4/12 **2009**)
- [C156] 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**)
- [C157] 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**).
- [C158] SANS & stimuli-responsive polymer self-assemblies
S. LECOMMANDOUX
JDNI7, Ecole thématique «Neutrons et matière molle», La Grande Motte, **France** (23-27 mai **2009**).
- [C159] 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**)
- [C160] 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**)
- [C161] Polymer Vesicles as new Biomimetic Nano-carriers
S. LECOMMANDOUX
Indo-Fench Workshop in Nanotechnology for Biomedical Application, Paris, **France** (13-14 Novembre **2008**)
- [C162] Polypeptide-based polymersomes as biomimetic nano-carriers
S.LECOMMANDOUX
France-Japon 8th Drug Delivery Symposium, Cannes, **France** (October 6-8, **2008**)
- [C163] 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**
- [C164] 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**)
- [C165] Stimuli-Responsive Polypeptide-Based Nano-Carriers
S. LECOMMANDOUX
Conference on NanoTechnology in Biology and Medicine, Charlotte, **USA** (November 4-5, **2007**)

- [C166] 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**)
- [C167] 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**)
- [C168] 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**)
- [C169] 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**)
- [C170] Polypeptide-based polymersomes as stimuli-responsive nanovectors
C. SCHATZ, S. LECOMMANDOUX
European Polymer Congress 2007 (EPF-2007), Portoroz, **Slovenia** (July 2-6, **2007**)
- [C171] 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**)
- [C172] 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**)
- [C173] 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**)
- [C174] 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**)
- [C175] 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**)
- [C176] 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**)
- [C177] 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**)
- [C178] 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**)

Invited presentations in universities and companies

- [C179] Protocells and Therapeutics: Harnessing Biomimicry with Self-Assembled Polymers and Bioconjugates, MedinCell Seminar, Jacou – **France** (September 28, **2023**)
- [C180] Biomimetic polypeptide bioconjugates for biomaterials and artificial organelles design, Univ. Kyoto **Japan** (July 31, **2023**)

- [C181] Biomimetic protein bioconjugates for biomaterials and artificial organelles design, Tokyo Medical and Dental University (TMDU), Tokyo **Japan** (July 25, **2023**)
- [C182] Biomimetic polymer vesicles: from nanomedicines to artificial cells, Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion, Kawasaki, **Japan** (July 24, **2023**)
- [C183] Biomimetic polymer vesicles: from nanomedicines to artificial cell, Japan Advanced Institute of Science and Technology, Kanazawa **Japan** (July 21, **2023**)
- [C184] Biomimetic polymersomes as smart functional therapeutics and protocells, Univ. Warwick, **UK** (June 28, **2023**)
- [C185] Auto-assemblages biomimétiques polymères: vectorisation, biomatériaux et cellules artificielles, Seppic S.A. Castres, **France** (29 September, **2022**)
- [C186] Synthèse de polymères biomimétiques et design de biomatériaux actifs, Département de Chimie, Université de Montréal, **Canada** (3 Mai **2022**)
- [C187] Biomimetic polymers as smart functional therapeutics, International Excellent Core for Sustainable Materials, Japan Advanced Institute of Science and Technology (JAIST), **Japan** (January 27, **2022**)
- [C188] Biomimetic polymers as smart functional therapeutics: from nanomedicines to artificial cells, Université de Montréal, **Canada** (November 3, **2021**)
- [C189] Biomimetic polymers as smart functional therapeutics: from nanomedicines to artificial cells, Faculté de Pharmacie Illkirch- Strasbourg, **France** (October 26, **2021**)
- [C190] Biomimetic and biofunctional polymersomes: from nanomedicine to protocells, University of Nebraska Medical Center, **USA** (October 8, **2021**)
- [C191] Polymer Self-Assembly & Life Science, Glycovax **Canada** (May 25, **2021**)
- [C192] Biomimetic and biofunctional polymersomes: from nanomedicine to protocells, Xingda Lecture Series, College of Chemistry and molecular Engineering, PKU, **China** (November 13, **2020**)
- [C193] From bioactive polymer nanomedicine to in-body pharmacy, The Janssen Pharmaceutical Companies of Johnson & Johnson, **Belgium** (May 28, **2020**)
- [C194] From bioactive polymeric vesicles to autonomous cell-like reactors, Warwick virtual Seminar, **UK** (April 14, **2020**)
- [C195] Mimer les virus pour le traitement du cancer
Séminaire Interdisciplinaire de l'Oncosphère de Bordeaux, Amphithéâtre de l'Institut de Mathématiques de Bordeaux, 18 décembre **2019**, campus de Talence, **France**
- [C196] Biomimetic polymer-based self-assemblies: Future directions towards functional biomaterials, SEQENS Annual Meeting, Lyon, **France** (Sept 23-25, **2019**)
- [C197] Biomimetic polymersomes : from active biomaterials to protocells, iNano Lecture "Interdisciplinary Nanoscience Center" Aarhus, **Denmark** (May 24, **2019**)
- [C198] Biomimetic polymersomes as active functional biomaterials, MIT Program in Polymers and Soft Matter (PPSM), Boston **USA** (Jan. 29, **2019**)
- [C199] Biomimetic polymer micelles and vesicles based on polypeptides and polysaccharides, Boston University (BU), **USA** (Jan 30, **2019**)
- [C200] Biomimetic polymer self-assemblies as innovative biomaterials. Colloquium ENS Chimie, département of Chemistry ENS, Paris, **France** (October 31, **2018**)
- [C201] Biomimetic Polymer Self-Assemblies As Innovative Biomaterials. Qingdao University, **China** (Sept. 26, **2018**)
- [C202] Biomimetic and Functional Polymersomes for (Nano)Medicine, Doc & Post-Doc Day de l'Institut Galien Paris Sud, France (June 4, **2018**)
- [C203] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials, Materials Science and Engineering Seminar, University of California Berkeley, **USA** (August 7, **2017**)
- [C204] Biomimetic Polymer Vesicles: Virus and Cell Mimics towards innovative biomaterials, ENS Lyon, **France** (March 12, **2017**)
- [C205] CIDETEC, Donostia-San Sebastián, **Spain** (March 1st **2016**)
- [C206] The Institute of Materials (IMX), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, **Switzerland** (February 5th **2016**)
- [C207] Séminaire Servier, Centre de Recherche Orléans, **France** (10 Juin **2015**)
- [C208] Séminaire Chimie ParisTech, **France** (20 Avril **2015**)
- [C209] Séminaire CERMAV, Grenoble, **France** (3 Avril **2015**)
- [C210] Institute of Macromolecular Chemistry, Prague, **Czech Republic** (18th February, **2015**)
- [C211] Contipro Group s.r.o., Dolní Dobrouč, **Czech Republic** (19th February, **2015**)
- [C212] Laboratoire du Futur Solvay, Bordeaux, **France** (January 9, **2015**)
- [C213] Centre de Recherche Pierre Fabre, Toulouse **France** (January 7, **2015**)

- [C214] Department of Chemical Engineering, National Cheng Kung University, Tainan, **Taiwan** (September 2, **2014**)
- [C215] Department of Macromolecular Science, Fudan University Shanghai, **China** (June 4, **2014**)
- [C216] Tel Aviv University, Dept of Material Science and Engineering, **Israel** (April 22, **2014**)
- [C217] Polymer Self-Assembly and Life Sciences
- [C218] L'Oréal, Recherche Avancée, Aulnay sous boy, **France** (Dec. **2013**)
- [C219] Société Pharmamar, Madrid, **Spain** (Oct. 23, **2013**)
- [C220] Adolphe Merkle Institute, University of Fribourg, **Switzerland** (June 16, **2013**)
- [C221] Département de chimie minérale et analytique, Université de Genève, **Switzerland** (June 16, **2013**)
- [C222] Laboratoire Charles Coulomb (UMR 5521) Université Montpellier II, **France** (July 11, **2013**)
- [C223] Société ADOCIA, Lyon, **France** (July 4, **2013**)
- [C224] SANOFI, Centre de Recherche Montpellier, **France** (April 14, **2013**)
- [C225] MRSEC, Duke University, Durham, NC, **USA** (March 28, **2013**)
- [C226] KAUST, Chemical Science Program, **Saudi Arabia** (Feb. 23, **2013**)
- [C227] Molecular Materials, Department of Applied Physics, Aalto University School of Science, **Finland** (October 12, **2012**)
- [C228] Company DEBIOPHARM, Lausanne, **Suisse** (August 31, **2012**)
- [C229] Tongji University, Shanghai, **China** (September 11, **2012**)
- [C230] Hefei National Laboratory for Physical Sciences at the Microscale, University of Science and Technology of China – Hefei, **China** (September 15, **2012**)
- [C231] Shanghai Jiaotong University, **China** (September 10th, **2012**)
- [C232] Company CEVA Santé Animale, Libourne, **France** (July 20, **2012**)
- [C233] Company BERTIN PHARMA, Bordeaux, **France** (June 25, **2012**)
- [C234] Institute of Chemistry of the Chinese Academy of Science ICCAS, Beijing, **China** (June 1, **2012**)
- [C235] Laboratory of Polymeric and Composite Materials (LPCM), Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons, **Belgium** (May 20, **2012**)
- [C236] INSERM EA4552 "Receptors and Therapeutic Targeting in Cancerology" Toulouse, **France** (May 14, **2012**)
- [C237] Institut Curie « Laboratoire Physico-Chimie », Paris, **France** (May 9, **2012**)
- [C238] UCLA, Department of Biochemical Engineering, Los Angeles, **USA** (March 30, **2012**)
- [C239] Department of Organic Chemistry, Radboud University Nijmegen, **Netherlands** (February 10, **2012**)
- [C240] CEA-LETI, Grenoble, **France** (January 17, **2012**)
- [C241] Jealott's Hill International Research Center, SYNGENTA, **UK** (May 17, **2011**)
- [C242] Institut d'Innovation Galénique, TECHNOLOGIE SERVIER, Orléans, France (Nov. 3, **2011**)
- [C243] Université Lille 1, Unité Matériaux et Transformations, CNRS UMR 8207 (Nov. 10, **2010**)
- [C244] ESPCI Paritech, Paris, France (Sept. 13, **2010**)
- [C245] Company DEBIOPHARM, Lausanne, Suisse (Sept. **2009**)
- [C246] Ecole Polytechnique Fédérale de Lausanne, Institut des Matériaux, Laboratoire des Polymères, Suisse (Sept. **2009**)
- [C247] Service de Physique de l'Etat Condensé (SPEC, CEA-DRECAM), Saclay, France (Juin **2008**)
- [C248] Imperial College of London, Department of Materials, UK (Mars **2008**)
- [C249] Melville Laboratory for Polymer synthesis, University of Cambridge, UK (Mars **2008**)
- [C250] Société FIRMENICH, Genève, Suisse (février **2008**)
- [C251] Université de Santiago de Compostella, department de Physique, Espagne (octobre **2007**)
- [C252] Department of Chemistry, Queen's University, Kingston, Ontario, Canada (Mai **2007**)
- [C253] Laboratoire Interdisciplinaire sur l'Organisation Nanométrique et Supramoléculaire (LIONS), Drecam CEA, Saclay, France (novembre **2006**)
- [C254] Department of Materials Engineering and Center for Disease Biology and Integrative Medicine, University of Tokyo, Japan (Septembre **2006**)
- [C255] Société FIRMENICH, Genève, Suisse (juin **2006**)
- [C256] Centre d'Etude et CERMAV, Grenoble, France (Avril **2006**)
- [C257] Laboratoire Léon Brillouin (LLB), CEA, Saclay, France (janvier **2005**)
- [C258] Institut Laue Langevin (ILL), Grenoble, France (septembre **2004**)
- [C259] Société L'OREAL, Aulnay-sous-Bois, France (Avril **2004**)
- [C260] Laboratoire de physico-chimie macromoléculaire, ESCPI, Paris, France (juin **2003**)
- [C261] Laboratoire des interactions moléculaires et réactivité chimique et photochimique, Université Paul Sabatier, Toulouse, France (octobre **2003**)
- [C262] Institut Charles Sadron ICS, Strasbourg, France (**2001**)
- [C263] Université de Florianopolis, Brésil (**2001**)

- [C264] Laboratoire Léon Brillouin LLB-CEA, Saclay, France (1997)
 [C265] Laboratoire de Chimie des Polymères Organiques LCPO, Bordeaux, France (1997)
 [C266] Institut de Physique et Chimie des Matériaux de Strasbourg IPCMS, Strasbourg, France (1997)

Oral presentations at international conferences

- [C267] 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**)
- [C268] 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**)
- [C269] 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)
- [C270] 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)
- [C271] 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**)
- [C272] 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**)
- [C273] 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**)
- [C274] 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**)
- [C275] Polypeptide-based Polymersomes as Biomimetic Nano-carriers
 S. LECOMMANDOUX
 NanoSWEC 2008, Bordeaux **France** (3-5 Octobre **2008**)
- [C276] Stimuli-Responsive Polypeptide-Based Biomimetic Nanocarriers
 J.-F. LE MEINS, C. SCHATZ, S. LECOMMANDOUX
 48th microsymposium on "Polymer Colloids: From Design to Biomedical and Industrial Applications", Prague, **République Tchèque** (21-24 Juillet **2008**)
- [C277] 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. BRULET, O. SANDRE, S. LECOMMANDOUX
 35th annual meeting of the Controlled Released Society (CRS), New-York, **USA** (12-16 juillet **2008**)
- [C278] 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**)

- [C279] 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)
- [C280] 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)
- [C281] 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)
- [C282] 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)
- [C283] 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)
- [C284] Supramolecular Assemblies Based on Amphiphilic Diblock Copolymers
S. LECOMMANDOUX
Conférence Européenne du CERC3, Valbeck, **Belgique** (2002)
- [C285] From Supramolecular Amphiphilic Aggregates to Spherical Objects
S. LECOMMANDOUX, F. CHÉCOT, Y. GNANOU, H.-A. KLOK
Bayreuth Polymer Symposium, Bayreuth, **Allemagne** (2001)
- [C286] Supramacromolecular Objects From Peptide-based Copolymers
S. LECOMMANDOUX, F. CHÉCOT, Y. GNANOU, H.-A. KLOK
Polymer Gordon Conference, New London, **USA** (2001)

Oral presentations in national conferences

- [C287] 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)
- [C288] 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)
- [C289] 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)
- [C290] Ingénierie Supramacromoléculaire par Auto-Assemblage de Copolymères
S. LECOMMANDOUX, F. CHECOT, Y. GNANOU
30^{ème} Colloque Annuel du GFP, Paris (Novembre 2000)
- [C291] Auto-Assemblage de Copolymères : Chimie Supramacromoléculaire
S. LECOMMANDOUX
XXVIII^{ème} Journées d'Etudes des Polymères, Mèze (Octobre 2000)
- [C292] 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)
- [C293] 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)
- [C294] 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)
- [C295] 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)

