

**Jean-Paul (Moshe) Lellouche**

**Editor**

Associate Professor  
Multicultural campus of Bar-Ilan University  
Ramat Gan, Israel

**Publications List**

(175 articles on SCI and reputable journals (about 12,828 reads and 2,938 citations))

**Articles/reviews & Book manuscripts on Journals (175 articles)**

1. Patel, J.; Jain, B.; Singh, A. K.; Susan, M. A. B. H.; Jean-Paul, L., Mn-Doped ZnS Quantum dots-An Effective Nanoscale Sensor. *Microchemical Journal* **2020**, *155*, 104755.
2. Nirala, N. R.; Harel, Y.; Lellouche, J.-P.; Shtenberg, G., Ultrasensitive haptoglobin biomarker detection based on amplified chemiluminescence of magnetite nanoparticles. *J. Nanobiotechnol.* **2020**, *18* (1), 6.
3. Itshak-Levy, D.; Israel, L. L.; Schmerling, B.; Kannan, S.; Sade, H.; Michaeli, S.; Lellouche, J.-P., Disaggregation, stabilization, and innovative functionalization/surface engineering of detonation nanodiamonds via ultrasonication-promoted ceric ammonium nitrate treatment. *Diamond and Related Materials* **2020**, *104*, 107738.
4. Zhang, J.; Sade, H.; Zhao, Y.; Murdock Adrian, T.; Bendavid, A.; Lellouche, J.-P.; Wang, G.; Han, Z., Conformal carbon coating on WS<sub>2</sub> nanotubes for excellent electrochemical performance of lithium-ion batteries. *Nanotechnology* **2019**, *30* (3), 035401.
5. Zalevsky, Z.; Lellouche, J. P.; Smadja, D.; Harel, Y.; Ben Ishay, R. System, method and material composition for use in correction of eye conditions. 2019-IL50219  
2019167040, 20190227., 2019.
6. Palomar, Q.; Gondran, C.; Lellouche, J.-P.; Cosnier, S.; Holzinger, M., Functionalized Tungsten disulfide nanotubes for Dopamine and Catechol detection in a Tyrosinase-based Amperometric Biosensor design. *Journal of Materials Chemistry B: Materials for Biology and Medicine* **2019**, Ahead of Print.
7. Munder, A.; Moskovitz, Y.; Meir, A.; Kahremany, S.; Levy, L.; Kolitz-Domb, M.; Cohen, G.; Shtriker, E.; Viskind, O.; Lellouche, J.-P.; Senderowitz, H.; Chessler, S. D.; Korshin, E. E.; Ruthstein, S.; Gruzman, A., Neuroligin-2-derived peptide-covered polyamidoamine-based (PAMAM) dendrimers enhance pancreatic  $\beta$ -cells' proliferation and functions. *MedChemComm* **2019**, *10* (2), 280-293.
8. Levin, T.; Sade, H.; Binyamini Rina, B.-S.; Lellouche, J.-P.; Pour, M.; Nachman, I., Tungsten disulfide-based nanocomposites for photothermal therapy. *Beilstein journal of nanotechnology* **2019**, *10*, 811-822.
9. Lellouche, J. P.; Michaeli, S.; Israel, L. L.; Harel, Y.; Dolitzky, A.; Ostrovsky, S. Core-shell particles comprising metal oxide and lanthanide element. 2018-IL50951  
2019043701, 20180828., 2019.
10. Kumar, V. B.; Harel, Y.; Ben-Ishay, R.; Lellouche, J.-P.; Gedanken, A., Functionalization of WS<sub>2</sub> Nanotubes with Fluorescent C-dots and Conductive Polythiophenes. *Macromolecular Chemistry and Physics* **2019**, Ahead of Print.
11. Haimov-Talmoud, E.; Harel, Y.; Schori, H.; Motiei, M.; Atkins, A.; Popovtzer, R.; Lellouche, J.-P.; Shefi, O., Magnetic Targeting of mTHPC to Improve the Selectivity and Efficiency of Photodynamic Therapy. *ACS Applied Materials & Interfaces* **2019**, Ahead of Print.
12. Feczko, T.; Piiper, A.; Ansar, S.; Blixt, F. W.; Ashtikar, M.; Schiffmann, S.; Ulshoefer, T.; Parnham, M. J.; Harel, Y.; Israel, L. L.; Lellouche, J.-P.; Wacker, M. G., Stimulating brain recovery after stroke using theranostic albumin nanocarriers loaded with nerve growth factor in combination therapy. *Journal of Controlled Release* **2019**, *293*, 63-72.
13. Dunn-Kittenplon, D.; Kalt, I.; Lellouche, J.-P.; Sarid, R., The KSHV portal protein ORF43 is essential for the production of infectious viral particles. *Virology* **2019**, *529*, 205-215.
14. Sokolik, C. G.; Lellouche, J.-P., Hybrid-silica nanoparticles as a delivery system of the natural biocide carvacrol. *RSC Advances* **2018**, *8* (64), 36712-36721.

15. Sokolik, C. G.; Ben-Shabat-Binyamini, R.; Gedanken, A.; Lellouche, J.-P., Proteinaceous microspheres as a delivery system for carvacrol and thymol in antibacterial applications. *Ultrason. Sonochem.* **2018**, *41*, 288-296.
16. Sade, H.; Lellouche, J.-P., Preparation and characterization of WS<sub>2</sub>@SiO<sub>2</sub> and WS<sub>2</sub>@PANI core-shell nanocomposites. *Nanomaterials* **2018**, *8* (3), 156/1-156/20.
17. Munder, A.; Moskovitz, Y.; Meir, A.; Kahremany, S.; Levy, L.; Koltz-Domb, M.; Cohen, G.; Shtriker, E.; Viskind, O.; Lellouche, J.-P.; Senderowitz, H.; Chessler, S. D.; Korshin, E. E.; Ruthstein, S.; Gruzman, A., Neuroigin-2-derived peptide-covered polyamidoamine-based (PAMAM) dendrimers enhance pancreatic  $\beta$ -cells' proliferation and functions. *MedChemComm* **2018**, Ahead of Print.
18. Laloy, J.; Haguet, H.; Alpan, L.; Raichman, D.; Dogne, J.-M.; Lellouche, J.-P., Impact of functional inorganic nanotubes f-INTs-WS<sub>2</sub> on hemolysis, platelet function and coagulation. *Nano Convergence* **2018**, *5* (1), 31/1-31/10.
19. Chessler, S.; Gruzman, A. L.; Lellouche, J.-P.; Munder, A. Compositions and methods for enhancing beta cell maturation, health and function using an agent that increases  $\beta$ -cell surface protein such as a  $\beta$ -cell surface protein-derived peptide. 2017-US65234 2018106982, 20171208., 2018.
20. Zou, J.; Ostrovsky, S.; Israel, L. L.; Feng, H.; Kettunen, M. I.; Lellouche, J.-p.; Pyykkoe, I., Efficient penetration of ceric ammonium nitrate oxidant-stabilized gamma-maghemite nanoparticles through the oval and round windows into the rat inner ear as demonstrated by MRI. *Journal of Biomedical Materials Research, Part B: Applied Biomaterials* **2017**, *105* (7), 1883-1891.
21. Senn, P.; Roccio, M.; Hahnwald, S.; Frick, C.; Kwiatkowska, M.; Ishikawa, M.; Bako, P.; Li, H.; Edin, F.; Liu, W.; Rask-Andersen, H.; Pyykko, I.; Zou, J.; Mannerstrom, M.; Keppner, H.; Homsey, A.; Laux, E.; Llera, M.; Lellouche, J.-P.; Ostrovsky, S.; Banin, E.; Gedanken, A.; Perkas, N.; Wank, U.; Wiesmuller, K.-H.; Mistrik, P.; Benav, H.; Garnham, C.; Jolly, C.; Gander, F.; Ulrich, P.; Muller, M.; Lowenheim, H., NANOCI-Nanotechnology Based Cochlear Implant With Gapless Interface to Auditory Neurons. *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology* **2017**, *38* (8), e224-e231.
22. Nandi, S.; Bhunia, S. K.; Zeiri, L.; Pour, M.; Nachman, I.; Raichman, D.; Lellouche, J.-P. M.; Jelinek, R., Bifunctional Carbon-Dot-WS<sub>2</sub> Nanorods for Photothermal Therapy and Cell Imaging. *Chemistry - A European Journal* **2017**, *23* (4), 963-969.
23. Munder, A.; Israel, L. L.; Kahremany, S.; Ben-Shabat-Binyamini, R.; Zhang, C.; Koltz-Domb, M.; Viskind, O.; Levine, A.; Senderowitz, H.; Chessler, S.; Lellouche, J.-P.; Gruzman, A., Mimicking Neuroigin-2 Functions in  $\beta$ -Cells by Functionalized Nanoparticles as a Novel Approach for Antidiabetic Therapy. *ACS Applied Materials & Interfaces* **2017**, *9* (2), 1189-1206.
24. Lellouche, J.-P.; Raichman, D.; Ben Ishay, R.; Harel, Y.; Ben-shabat-Binyamini, R.; Sade, H. Metal chalcogenide nanostructures. 2016-15376924 20170166691, 20161213., 2017.
25. Lellouche, E.; Locatelli, E.; Israel, L. L.; Naddaka, M.; Kurlander, E.; Michaeli, S.; Lellouche, J.-P.; Franchini, M. C., Maghemite-containing PLGA-PEG-based polymeric nanoparticles for siRNA delivery: toxicity and silencing evaluation. *RSC Advances* **2017**, *7* (43), 26912-26920.
26. Gruenwald, B.; Vandooren, J.; Locatelli, E.; Fiten, P.; Opdenakker, G.; Proost, P.; Krueger, A.; Lellouche, J. P.; Israel, L. L.; Shenkman, L.; Franchini, M. C., Corrigendum to "Matrix metalloproteinase-9 (MMP-9) as an activator of nanosystems for targeted drug delivery in pancreatic cancer" [J. Control. Release 239 (2016) 39-48] [Erratum to document cited in CA168:487030]. *Journal of Controlled Release* **2017**, *261*, 367.
27. Gruenwald, B.; Vandooren, J.; Locatelli, E.; Fiten, P.; Opdenakker, G.; Proost, P.; Krueger, A.; Lellouche, J. P.; Israel, L. L.; Shenkman, L.; Franchini, M. C., Corrigendum to "Matrix metalloproteinase-9 (MMP-9) as an activator of nanosystems for targeted drug delivery in pancreatic cancer" [J. Control. Release 239 (2016) 39-48]. *Journal of Controlled Release* **2017**, *261*, 367.
28. Sade, H.; Lellouche, J.-P., Functionalization of Tungsten Disulfide Nanotubes with a Conformal Humint-Like Shell. *Advanced Materials Interfaces* **2016**, *3* (20), n/a.
29. Raichman, D.; Ben-Shabat Binyamini, R.; Lellouche, J. P., A new polythiophene-driven coating method on an inorganic INT/IF-WS<sub>2</sub> nanomaterial surface. *RSC Advances* **2016**, *6* (6), 4490-4504.
30. Ostrovsky, S.; Hahnwald, S.; Kiran, R.; Mistrik, P.; Hessler, R.; Tschertter, A.; Senn, P.; Kang, J.; Kim, J.; Roccio, M.; Lellouche, J. P., Conductive hybrid carbon nanotube (CNT)-polythiophene coatings for innovative auditory neuron-multi-electrode array interfacing. *RSC Advances* **2016**, *6* (48), 41714-41723.

31. Nandi, S.; Bhunia, S. K.; Zeiri, L.; Pour, M.; Nachman, I.; Raichman, D.; Lellouche, J.-P. M.; Jelinek, R., Bifunctional Carbon-Dot-WS<sub>2</sub> Nanorods for Photothermal Therapy and Cell Imaging. *Chemistry - A European Journal* **2016**, Ahead of Print.
32. Israel, L. L.; Lellouche, E.; Bechor, M.; Grenèche, J. M.; Michaeli, S.; Lellouche, J. P., Ultrasound-Mediated Surface Engineering of Theranostic Magnetic Nanoparticles: An Effective One-Pot Functionalization Process Using Mixed Polymers for siRNA Delivery. *J. of Nanomedicine & Nanotechnology* **2016**, 7 (3), 385.
33. Ishay, R. B.; Israel, L. L.; Eitan, E. L.; Partouche, D. M.; Lellouche, J.-P., Maghemite-human serum albumin hybrid nanoparticles: towards a theranostic system with high MRI r<sub>2</sub>\* relaxivity. *Journal of Materials Chemistry B: Materials for Biology and Medicine* **2016**, 4 (21), 3801-3814.
34. Gruenwald, B.; Vandooren, J.; Locatelli, E.; Fiten, P.; Opdenakker, G.; Proost, P.; Krueger, A.; Lellouche, J. P.; Israel, L. L.; Shenkman, L.; Comes Franchini, M., Matrix metalloproteinase-9 (MMP-9) as an activator of nanosystems for targeted drug delivery in pancreatic cancer. *Journal of Controlled Release* **2016**, 239, 39-48.
35. Dobiasch, S.; Szanyi, S.; Kjaev, A.; Werner, J.; Felix, K.; Dobiasch, S.; Werner, J.; Strauss, A.; Weis, C.; Grenacher, L.; Grenacher, L.; Kapilov-Buchman, K.; Israel, L.-L.; Lellouche, J.-P.; Locatelli, E.; Franchini Mauro, C.; Vandooren, J.; Opdenakker, G., Synthesis and functionalization of protease-activated nanoparticles with tissue plasminogen activator peptides as targeting moiety and diagnostic tool for pancreatic cancer. *Journal of nanobiotechnology* **2016**, 14 (1), 81.
36. Ben Ishay, R.; Harel, Y.; Lavi, R.; Lellouche, J.-P., Multiple functionalization of tungsten disulfide inorganic nanotubes by covalently grafted conductive polythiophenes. *RSC Advances* **2016**, 6 (92), 89585-89598.
37. Adams, C.; Israel, L. L.; Ostrovsky, S.; Taylor, A.; Poptani, H.; Lellouche, J.-P.; Chari, D., Development of Multifunctional Magnetic Nanoparticles for Genetic Engineering and Tracking of Neural Stem Cells. *Advanced Healthcare Materials* **2016**, 5 (7), 841-849.
38. Rosenberger, I.; Strauss, A.; Dobiasch, S.; Weis, C.; Szanyi, S.; Gil-Iceta, L.; Alonso, E.; Gonzalez Esparza, M.; Gomez-Vallejo, V.; Szczupak, B.; Plaza-Garcia, S.; Mirzaei, S.; Israel, L. L.; Bianchessi, S.; Scanziani, E.; Lellouche, J. P.; Knoll, P.; Werner, J.; Felix, K.; Grenacher, L.; Reese, T.; Kreuter, J.; Jimenez-Gonzalez, M., Targeted diagnostic magnetic nanoparticles for medical imaging of pancreatic cancer. *Journal of Controlled Release* **2015**, 214, 76-84.
39. Raichman, D.; Strawser, D. A.; Lellouche, J.-P., Covalent functionalization/polycarboxylation of tungsten disulfide inorganic nanotubes (INTs-WS<sub>2</sub>). *Nano Research* **2015**, 8 (5), 1454-1463.
40. Ostrovsky, S.; Larsen, M. J.; Peled, A.; Lellouche, J.-P., Photochemically modified ATO NPs as conductive support of Pt electrocatalysts for proton exchange membrane fuel cells. *Journal of Nanoparticle Research* **2015**, 17 (6), 1-16.
41. Nanikashvili, P. M.; Kapilov-Buchman, Y.; Israel, L. L.; Lellouche, J.-P.; Zitoun, D.; Butenko, A. V.; Sloutskin, E., Layering in sedimenting nanoparticle suspensions: The order-inducing role of randomness. *Colloids and Surfaces, A: Physicochemical and Engineering Aspects* **2015**, 483, 248-256.
42. Nahum, T.; Dodiuk, H.; Dotan, A.; Kenig, S.; Lellouche, J. P., Superhydrophobic durable coating based on UV-photoreactive silica nanoparticles. *AIP Conference Proceedings* **2015**, 1664 (1, 30th International Conference of the Polymer Processing Society, 2014), 070001/1-070001/5.
43. Mondal, E.; Lellouche, J.-P.; Naddaka, M., Novel Carbazole (Cbz)-Based Carboxylated Functional Monomers: Design, Synthesis, and Characterization. *ChemistryOpen* **2015**, Ahead of Print.
44. Lellouche, E.; Israel, L. L.; Bechor, M.; Attal, S.; Kurlander, E.; Asher, V. A.; Dolitzky, A.; Shaham, L.; Izraeli, S.; Lellouche, J. P.; Michaeli, S., MagRET Nanoparticles: An Iron Oxide Nanocomposite Platform for Gene Silencing from MicroRNAs to Long Noncoding RNAs. *Bioconjugate Chemistry* **2015**, 26 (8), 1692-1701.
45. Kapilov-Buchman, Y.; Lellouche, E.; Michaeli, S.; Lellouche, J.-P., Unique Surface Modification of Silica Nanoparticles with Polyethylenimine (PEI) for siRNA Delivery Using Cerium Cation Coordination Chemistry. *Bioconjugate Chemistry* **2015**, 26 (5), 880-889.
46. Israel, L. L.; Lellouche, E.; Ostrovsky, S.; Yarmiayev, V.; Bechor, M.; Michaeli, S.; Lellouche, J.-P., Acute in Vivo Toxicity Mitigation of PEI-Coated Maghemite Nanoparticles Using Controlled Oxidation and Surface Modifications toward siRNA Delivery. *ACS Applied Materials & Interfaces* **2015**, Ahead of Print.
47. Israel, L. L.; Kovalenko, E. I.; Boyko, A. A.; Sapozhnikov, A. M.; Rosenberger, I.; Kreuter, J.; Passoni, L.; Lellouche, J.-P., Towards hybrid biocompatible magnetic rHuman serum albumin-based nanoparticles: use of ultra-small (CeLn)<sub>3/4+</sub> cation-doped maghemite nanoparticles as functional shell. *Nanotechnology* **2015**, 26 (4), 45601.
48. Israel, L. L.; Karimi, F.; Bianchessi, S.; Scanziani, E.; Passoni, L.; Matteoli, M.; Langstrom, B.; Lellouche, J.-P., Surface metal cation doping of maghemite nanoparticles: modulation of MRI relaxivity features and chelator-free <sup>68</sup>Ga-radiolabelling for dual MRI-PET imaging. *Materials Research Express* **2015**, 2 (9), 1-14.

49. Ishay, R. B.; Kapp-Barnea, Y.; Grigoriants, I.; Teblum, E.; Lellouche, J.-P., Real time acoustic profiling of a live cancerous cell monolayer using QCM. *Sensors and Actuators, B: Chemical* **2015**, *215*, 373-381.
50. Rosenberger, I.; Schmithals, C.; Vandooren, J.; Bianchessi, S.; Milani, P.; Locatelli, E.; Israel, L. L.; Huebner, F.; Matteoli, M.; Lellouche, J.-P.; Franchini, M. C.; Passoni, L.; Scanziani, E.; Opdenakker, G.; Piiper, A.; Kreuter, J., Physico-chemical and toxicological characterization of iron-containing albumin nanoparticles as platforms for medical imaging. *Journal of Controlled Release* **2014**, *194*, 130-137.
51. Ravid-Hermesh, O.; Zurgil, N.; Shafran, Y.; Sobolev, M.; Galmidi, M.; Badihi, Y.; Israel, L. L.; Lellouche, J. P.; Lellouche, E.; Michaeli, S.; Deutsch, M., Real-time quantification of protein expression and translocation at individual cell resolution using imaging-dish-based live cell array. *Analytical and Bioanalytical Chemistry* **2014**, *406* (28), 7085-7101.
52. Raichman, D.; Strawser, D.; Lellouche, J.-P., Design of experiments: optimizing the polycarboxylation/functionalization of tungsten disulfide nanotubes. *Inorganics* **2014**, *2* (3), 455-467.
53. Nahum, T.; Dodiuk, H.; Dotan, A.; Kenig, S.; Lellouche, J. P., Durable bonding of silica nanoparticles to polymers by photoradiation for control of surface properties. *Polymers for Advanced Technologies* **2014**, *25* (7), 723-731.
54. Mechrez, G.; Krepker, M. A.; Harel, Y.; Lellouche, J.-P.; Segal, E., Biocatalytic carbon nanotube paper: a 'one-pot' route for fabrication of enzyme-immobilized membranes for organophosphate bioremediation. *Journal of Materials Chemistry B: Materials for Biology and Medicine* **2014**, *2* (7), 915-922.
55. Lellouche, J. P.; Michaeli, S.; Israel, L. L.; Lellouche, E.; Kapilov-Buchman, Y. Magnetic inorganic iron-based nanoparticles. 2014-IL50064  
2014147608, 20140119., 2014.
56. Kumar, S.; Krishnakanth, S.; Mathew, J.; Pomerantz, Z.; Lellouche, J.-P.; Ghosh, S., Effect of N- $\alpha$  Substitution on the Electropolymerization of N-Substituted Pyrroles: Structure-Reactivity Relationship Studies. *Journal of Physical Chemistry C* **2014**, *118* (5), 2570-2579.
57. Israel, L. L.; Lellouche, E.; Kenett, R. S.; Green, O.; Michaeli, S.; Lellouche, J.-P., Ce<sup>3+/4+</sup> cation-functionalized maghemite nanoparticles towards siRNA-mediated gene silencing. *Journal of Materials Chemistry B: Materials for Biology and Medicine* **2014**, *2* (37), 6215-6225.
58. Harel, Y.; Lellouche, J.-P., Dual/multiphase MWCNT-antimony-doped tin oxide (ATO) nanoparticle composites: an effective covalent fabrication approach. *Journal of Nanoparticle Research* **2014**, *16* (8), 1-14.
59. Vandooren, J.; Berghmans, N.; Dillen, C.; Van Aelst, I.; Ronsse, I.; Opdenakker, G.; Israel Liron, L.; Lellouche, J.-P.; Rosenberger, I.; Kreuter, J.; Michaeli, S.; Locatelli, E.; Franchini Mauro, C.; Aiertza Miren, K.; Sanchez-Abella, L.; Loinaz, I.; Edwards Dylan, R.; Shenkman, L., Intradermal air pouch leukocytosis as an in vivo test for nanoparticles. *International journal of nanomedicine* **2013**, *8*, 4745-56.
60. Makarovsky, I.; Lellouche, J.; Lellouche, J.-P.; Banin, E., Improved Triclosan Delivery by a Novel Silica-Based Nanocomposite. *Advanced Healthcare Materials* **2013**, *2* (4), 607-619.
61. Lellouche, J.-P.; Koner, R. R.; Ghosh, S., N-Substituted carbazole heterocycles and derivatives as multipurpose chemical species: at the interface of chemical engineering, polymer and materials science. *Reviews in Chemical Engineering* **2013**, *29* (6), 413-437.
62. Lellouche, J.-P.; Esman, N.; Peled, A.; Ben-Ishay, R.; Kapp-Barnea, Y.; Grigoriants, I. Core shell conjugation of silica nanotube and polythiophene acetic acid for QCM application and method for making the same. 2012-IB54745  
2013042012, 20120912., 2013.
63. Harel, Y.; Azoubel, S.; Magdassi, S.; Lellouche, J.-P., A dispersability study on poly(thiophen-3-yl-acetic acid) and PEDOT multi-walled carbon nanotube composites using an analytical centrifuge. *Journal of Colloid and Interface Science* **2013**, *390* (1), 62-69.
64. Buchman, Y. K.; Lellouche, E.; Zigdon, S.; Bechor, M.; Michaeli, S.; Lellouche, J.-P., Silica Nanoparticles and Polyethyleneimine (PEI)-Mediated Functionalization: A New Method of PEI Covalent Attachment for siRNA Delivery Applications. *Bioconjugate Chemistry* **2013**, *24* (12), 2076-2087.
65. Vandooren, J.; Berghmans, N.; Dillen, C.; Van Aelst, I.; Ronsse, I.; Israel, L. L.; Rosenberger, I.; Kreuter, J.; Lellouche, J.-P.; Michaeli, S.; Locatelli, E.; Franchini, M. C.; Aiertza, M. K.; Sanchez-Abella, L.; Loinaz, I.; Edwards, D. R.; Shenkman, L.; Opdenakker, G., Intradermal air pouch leukocytosis as an in vivo test for nanoparticles. *International Journal of Nanomedicine* **2012**, *8*, 4745-4756, 12.
66. Peled, A.; Naddaka, M.; Lellouche, J.-P., Controllable photodeposition of metal nanoparticles on a photoreactive silica support. *Journal of Materials Chemistry* **2012**, *22* (15), 7580-7583.
67. Peled, A.; Lellouche, J.-P., Preparation of a novel functional SiC@polythiophene nanocomposite of a core-shell morphology. *Journal of Materials Chemistry* **2012**, *22* (5), 2069-2073.

68. Locatelli, E.; Gil, L.; Israel, L. L.; Passoni, L.; Naddaka, M.; Pucci, A.; Reese, T.; Gomez-Vallejo, V.; Milani, P.; Matteoli, M.; Llop, J.; Lellouche, J. P.; Franchini, M. C., Biocompatible nanocomposite for PET/MRI hybrid imaging. *International Journal of Nanomedicine* **2012**, *7*, 6021-6033.
69. Lellouche, J. P.; Makarovskiy, I.; Boguslavsky, Y.; Banin, E.; Lellouche, J. Triclosan derivatives and nanoparticles comprising same. 2011-13285516  
20120183619, 20111031., 2012.
70. Lellouche, J.; Friedman, A.; Lellouche, J.-P.; Gedanken, A.; Banin, E., Improved antibacterial and antibiofilm activity of magnesium fluoride nanoparticles obtained by water-based ultrasound chemistry. *Nanomedicine (New York, NY, United States)* **2012**, *8* (5), 702-711.
71. Lachman, N.; Harel, Y.; Green, A.; Iuster, N.; Lellouche, J.-P.; Wagner, H. D., Effect of scale and surface chemistry on the mechanical properties of carbon nanotubes-based composites. *Journal of Polymer Science, Part B: Polymer Physics* **2012**, *50* (14), 957-962.
72. Fadida, T.; Lellouche, J.-P., Preparation and characterization of composites built of poly(N-benzophenoyl methacrylamide-co-N-hydroxyethyl acrylamide) cores and silica raspberry-like shells with dual orthogonal functionality. *Journal of Colloid and Interface Science* **2012**, *386* (1), 167-173.
73. Fadida, T.; Lellouche, J.-P., Poly-N-(4-benzoylphenyl)methacrylamide nanoparticles: preparation, characterization, and photoreactivity features. *Journal of Polymer Research* **2012**, *19* (12), 1-12.
74. Esman, N.; Peled, A.; Ben-Ishay, R.; Kapp-Barnea, Y.; Grigoriants, I.; Lellouche, J.-P., Multi-functional silica nanotubes as a versatile nanoscale component for biology-driven sensing applications. *Journal of Materials Chemistry* **2012**, *22* (5), 2208-2214.
75. Peled, A.; Naddaka, M.; Lellouche, J.-P., Smartly designed photoreactive silica nanoparticles and their reactivity. *Journal of Materials Chemistry* **2011**, *21* (31), 11511-11517.
76. Naddaka, M.; Mondal, E.; Lellouche, J.-P., Oxidative fabrication of spherical polycarbazole-based microparticles. *Materials Letters* **2011**, *65* (8), 1165-1167.
77. Naddaka, M.; Mondal, E.; Lellouche, J.-P., Preparation of novel photoreactive polycarbazole-based microparticles: Reactivity features. *Journal of Polymer Science, Part A: Polymer Chemistry* **2011**, *49* (21), 4687-4693.
78. Naddaka, M.; Asen, F.; Freza, S.; Bobrowski, M.; Skurski, P.; Laux, E.; Charmet, J.; Keppner, H.; Bauer, M.; Lellouche, J.-P., Functionalization of parylene during its chemical vapor deposition. *Journal of Polymer Science, Part A: Polymer Chemistry* **2011**, *49* (13), 2952-2958.
79. Makarovskiy, I.; Boguslavsky, Y.; Alesker, M.; Lellouche, J.; Banin, E.; Lellouche, J.-P., Novel Triclosan-Bound Hybrid-Silica Nanoparticles and their Enhanced Antimicrobial Properties. *Advanced Functional Materials* **2011**, *21* (22), 4295-4304.
80. Lellouche, J.-P.; Pomerantz, Z.; Persky, R.; Gottlieb, H. E.; Ghosh, S., Star-shaped dendritic molecules based on carboxylated carbazole and pyrrole as peripheral oxidizable units. *Synthetic Metals* **2011**, *161* (21-22), 2378-2383.
81. Lellouche, J.-P.; Pomerantz, Z.; Ghosh, S., Towards hybrid carbazole/pyrrole-based carboxylated monomers: chemical synthesis, characterization and electro-oxidation properties. *Tetrahedron Letters* **2011**, *52* (51), 6903-6907.
82. Lellouche, J.-P.; Naddaka, M.; Peled, A.; Mondal, E. Surface-modified polymer films and coating of particle surface-modified polymer films. 2011-13154727  
20110306722, 20110607., 2011.
83. Lellouche, J.-P.; Goldman, D. Growth from surface methodology for the fabrication of functional dual phase conducting polymer-carbon nanotube composites of controlled morphology and composition. 2011-IL317  
2011135560, 20110414., 2011.
84. Goldman, D.; Girshevitz, O.; Lellouche, J.-P., AFM characterization of polydicarbazole-multi-walled carbon nanotube composites. *Journal of Advanced Microscopy Research* **2011**, *6* (3), 215-222.
85. Esman, N.; Haviv, A.; Lellouche, J.-P., Magnetically responsive polypyrrole nanotubes using Ce(III)-stabilized maghemite nanoparticles. *Nanotechnology* **2011**, *22* (28), 285604/1-285604/8, S285604/1-S285604/6.
86. Boguslavsky, Y.; Fadida, T.; Talyosef, Y.; Lellouche, J.-P., Controlling the wettability properties of polyester fibers using grafted functional nanomaterials. *Journal of Materials Chemistry* **2011**, *21* (28), 10304-10310.
87. Alesker, M.; Heller, A.; Malik, Z.; Makarovskiy, I.; Lellouche, J.-P., Hybrid silica nanoparticles traceable by fluorescence and FT-IR spectroscopy: preparation, characterization and preliminary biological studies. *Journal of Materials Chemistry* **2011**, *21* (29), 10883-10893.

88. Haviv, A. H.; Greneche, J.-M.; Lellouche, J.-P., Aggregation Control of Hydrophilic Maghemite ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>) Nanoparticles by Surface Doping Using Cerium Atoms. *Journal of the American Chemical Society* **2010**, *132* (36), 12519-12521.
89. Goldman, D.; Lellouche, J.-P., An easy method for the production of functional polypyrrole/MWCNT and polycarbazole/MWCNT composites using nucleophilic multi-walled carbon nanotubes. *Carbon* **2010**, *48* (14), 4170-4177.
90. Esman, N.; Lellouche, J.-P., Fabrication of functional polypyrrole (PolyPyr)-nanotubes using anodized aluminum oxide (AAO) template membranes. Compromising between effectiveness and mildness of template dissolution conditions for a safe release of PolyPyr-nanotubes. *Polymer Chemistry* **2010**, *1* (2), 158-160.
91. Piran, M.; Kotlyar, V.; Medina, D. D.; Pirlot, C.; Goldman, D.; Lellouche, J.-P., End-selective functionalization of carbon nanotubes. Use of DOE for the optimization of a DNA probe attachment and hybridization using an enzymatic amplifying system. *Journal of Materials Chemistry* **2009**, *19* (5), 631-638.
92. Peled, A.; Kotlyar, V.; Lellouche, J.-P., A new method for the preparation of silica-polycarbazole composite particles of a core-shell morphology. *Journal of Materials Chemistry* **2009**, *19* (2), 268-273.
93. Malenovska, M.; Litschauer, M.; Neouze, M.-A.; Schubert, U.; Peled, A.; Lellouche, J.-P., Multi-component hybrid inorganic-organic-inorganic particles with various metal oxide outer shells. *Journal of Organometallic Chemistry* **2009**, *694* (7-8), 1076-1080.
94. Lellouche, J.-P.; Saul, A.; Piran, M. S. A method of assembly of two jewelry components. 2008-IB2357 2009034446, 20080911., 2009.
95. Pomerantz, Z.; Zaban, A.; Ghosh, S.; Lellouche, J.-P.; Garcia-Belmonte, G.; Bisquert, J., Capacitance, spectroelectrochemistry and conductivity of polarons and bipolarons in a polydicarbazole based conducting polymer. *Journal of Electroanalytical Chemistry* **2008**, *614* (1-2), 49-60.
96. Neouze, M.-A.; Malenovska, M.; Schubert, U.; Kotlyar, V.; Kuperschmidt, E.; Peled, A.; Lellouche, J.-P., Silica nanoparticles with a hybrid organic-inorganic shell. *Journal of Materials Chemistry* **2008**, *18* (1), 121-125.
97. Malenovska, M.; Neouze, M.-A.; Schubert, U.; Peled, A.; Lellouche, J.-P., Multi-component hybrid organic-inorganic particles with highly dispersed silver nanoparticles in the external shell. *Dalton Transactions* **2008**, (34), 4647-4651.
98. Lellouche, J.-P.; Piran, M.; Shahar, L.; Grinblat, J.; Pirlot, C., A reversible decoration of multi-walled carbon nanotubes (MWCNTs) by acyclic  $\eta^4$ -(1E,3E)-dienyl-Fe(CO)<sub>3</sub> complexes. *Journal of Materials Chemistry* **2008**, *18* (10), 1093-1099.
99. Pomerantz, Z.; Garcia-Belmonte, G.; Joseph, A.; Lellouche, J.-P.; Bisquert, J.; Zaban, A., The effect of ion-polymer binding on ionic diffusion in dicarbazole-based conducting polymers. *Electrochimica Acta* **2007**, *52* (24), 6841-6847.
100. Lellouche, J.-P. Electroconductive polymers for surface coatings. 2004-968101 20060047067, 20041020., 2006.
101. Kotlyar, V.; Shahar, L.; Lellouche, J. P., A Simple Homemade Reaction Station for use in Parallel Solution-Phase Synthesis. Optimization of a Regioselective One-Step Deprotective O-formylation Reaction Mediated by the Vilsmeier-Haack Reagent POCl<sub>3</sub>•DMF. *Molecular Diversity* **2006**, *10* (2), 255-264.
102. Govindaraji, S.; Nakache, P.; Marks, V.; Pomerantz, Z.; Zaban, A.; Lellouche, J.-P., Novel Carboxylated Pyrrole- and Carbazole-Based Monomers. Synthesis and Electro-Oxidation Features. *Journal of Organic Chemistry* **2006**, *71* (24), 9139-9143.
103. Lellouche, J.-P.; Senthil, G.; Joseph, A.; Buzhansky, L.; Bruce, I.; Bauminger, E. R.; Schlesinger, J., Magnetically Responsive Carboxylated Magnetite-Polydipyrrole/Polydicarbazole Nanocomposites of Core-Shell Morphology. Preparation, Characterization, and Use in DNA Hybridization. *Journal of the American Chemical Society* **2005**, *127* (34), 11998-12006.
104. Lellouche, J.-P.; Govindaraji, S.; Joseph, A.; Jang, J.; Lee, K. J., Polydipyrrole- and polydicarbazole-nanorods as new nanosized supports for DNA hybridization. *Chemical Communications (Cambridge, United Kingdom)* **2005**, (34), 4357-4359.
105. del Campo, A.; Sen, T.; Lellouche, J.-P.; Bruce, I. J., Multifunctional magnetite and silica-magnetite nanoparticles: synthesis, surface activation and applications in life sciences. *Journal of Magnetism and Magnetic Materials* **2005**, *293* (1), 33-40.
106. Lellouche, J.-P.; Perlman, N.; Joseph, A.; Govindaraji, S.; Buzhansky, L.; Yakir, A.; Bruce, I., New magnetically responsive polydicarbazole-magnetite nanoparticles. *Chemical Communications (Cambridge, United Kingdom)* **2004**, (5), 560-561.
107. Lellouche, J.-P.; Kotlyar, V., Vilsmeier-Haack reagents. Novel electrophiles for the one-step formylation of O-silylated ethers to O-formates. *Synlett* **2004**, (3), 564-571.

108. Garcia-Belmonte, G.; Pomerantz, Z.; Bisquert, J.; Lellouche, J.-P.; Zaban, A., Analysis of ion diffusion and charging in electronically conducting polydicarbazole films by impedance methods. *Electrochimica Acta* **2004**, *49* (20), 3413-3417.
109. Motiei, L.; Marek, I.; Gottlieb, H. E.; Marks, V.; Lellouche, J.-P., C-C bond formation using allylic organozirconium compounds. Nucleophilic additions on to isolated and in situ generated  $\eta^5$ -pentadienyl-Fe(CO)<sub>3</sub>/Fe(CO)<sub>2</sub>PPh<sub>3</sub>(+) cations. *Tetrahedron Letters* **2003**, *44* (31), 5909-5912.
110. Diamant, Y.; Furmanovich, E.; Landau, A.; Lellouche, J.-P.; Zaban, A., Electrochemical polymerization and characterization of a functional dicarbazole conducting polymer. *Electrochimica Acta* **2003**, *48* (5), 507-512.
111. Cosnier, S.; Le Pellec, A.; Marks, R. S.; Perie, K.; Lellouche, J.-P., A permselective biotinylated polydicarbazole film for the fabrication of amperometric enzyme electrodes. *Electrochemistry Communications* **2003**, *5* (11), 973-977.
112. Braun, A.; Lellouche, J.-P., The intramolecular nucleophilic 1,5-O-heterocyclization of ( $\eta^4$ -dienyl)-tricarbonyliron diols: conformationally locked phosphocholines. *Tetrahedron Letters* **2002**, *43* (4), 727-730.
113. Braun, A.; Lellouche, J.-P., 1,2-Bond shift of the Fe(CO)<sub>3</sub> moiety in the 1,5-O-heterocyclization of (1,3-dienyl)-tricarbonyliron diols: Application to the synthesis of novel phosphocholines. *Israel Journal of Chemistry* **2002**, *41* (4), 329-338.
114. Li, S.-Y.; Lellouche, J.-P.; Shabtai, Y.; Arad, S., Fixed carbon partitioning in the red microalga *Porphyridium* sp. (Rhodophyta). *Journal of Phycology* **2001**, *37* (2), 289-297.
115. Lellouche, J.-P.; Marks, R. S. Preparation and application of matrices of probes on solid supports. 1999-IL496 2001017670, 19990909., 2001.
116. Lellouche, J.-P.; Koeller, S., The Particular Sensitivity of Silyl Ethers of D-Glucal toward Two Vilsmeier-Haack Reagents POCl<sub>3</sub>·DMF and (CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>O·DMF. Their Unique and Selective Conversion to the Corresponding C(6)-O-Formates. *Journal of Organic Chemistry* **2001**, *66* (3), 693-696.
117. Cosnier, S.; Szunerits, S.; Marks, R. S.; Lellouche, J.-P.; Perie, K., Mediated electrochemical detection of catechol by tyrosinase-based poly(dicarbazole) electrodes. *Journal of Biochemical and Biophysical Methods* **2001**, *50* (1), 65-77.
118. Cohen, Y.; Kotlyar, V.; Koeller, S.; Lellouche, J.-P., Reaction of C<sub>2</sub>-symmetrical dialkoxysilanes R<sup>1</sup>O-Si(R<sup>2</sup>)<sub>2</sub>-OR<sup>1</sup> with the two Vilsmeier-Haack complexes POCl<sub>3</sub>·DMF and (CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>O·DMF: an efficient one-step conversion to the corresponding formates R<sup>1</sup>-OCHO. *Synlett* **2001**, (10), 1543-1546.
119. Perie, K.; Marks, R.; Szunerits, S.; Cosnier, S.; Lellouche, J.-P., Novel electro-oxidizable chiral N-substituted dicarbazoles and resulting electroactive films for covalent attachment of proteins. *Tetrahedron Letters* **2000**, *41* (19), 3725-3729.
120. Cosnier, S.; Marks, R. S.; Lellouche, J.-P.; Perie, K.; Folegea, D.; Szunerits, S., Electrogenerated poly(chiral dicarbazole) films for the reagentless grafting of enzymes. *Electroanalysis* **2000**, *12* (14), 1107-1112.
121. Bezin, L.; Marcel, D.; Garcia, C.; Blum, D.; Lafargue, P.; Lellouche, J.-P.; Pujol, J.-F.; Weissmann, D., In situ examination of tyrosine hydroxylase activity in the rat locus coeruleus using (3',5')-[<sup>3</sup>H<sub>2</sub>]- $\alpha$ -fluoromethyl-tyrosine as substrate of the enzyme. *Synapse (New York)* **2000**, *35* (3), 201-211.
122. Marks, R.; Lellouche, J.-P. Array of functionalized micro-electrodes. 1998-US23232 9924645, 19981110., 1999.
123. Lessire, R.; Chevalier, S.; Lucet-Levannier, K.; Lellouche, J.-P.; Mioskowski, C.; Cassagne, C., Study of the 3-hydroxy eicosanoyl-coenzyme A dehydratase and (E)-2,3 enoyl-coenzyme A reductase involved in acyl-coenzyme A elongation in etiolated leek seedlings. *Plant Physiology* **1999**, *119* (3), 1009-1015.
124. Koeller, S.; Lellouche, J.-P., Preparation of formate esters from O-TBDMS/O-TES protected alcohols. A one-step conversion using the Vilsmeier-Haack complex POCl<sub>3</sub>/DMF. *Tetrahedron Letters* **1999**, *40* (38), 7043-7046.
125. Gree, R. L.; Lellouche, J.-P., Synthesis of stereochemically defined fluoro-organic compounds via dehydroxy-fluorination and related reactions. *Enantiocontrolled Synthesis of Fluoro-Organic Compounds* **1999**, 63-106.
126. Lessire, R.; Domergue, F.; Spinner, C.; Lucet-Levannier, K.; Lellouche, J.-P.; Mioskowski, C.; Cassagne, C., Dehydration of 3-hydroxyeicosanoyl-CoA and reduction of (E)-2,3-eicosenoyl-CoA are required for elongation by leek microsomal elongase(s). *Plant Physiology and Biochemistry (Paris)* **1998**, *36* (3), 205-211.
127. Monthiller, S.; Heck, M.-P.; Mioskowski, C.; Lafargue, P.; Lellouche, J.-P.; Masella, M., An efficient activation of the hydroxyl function by (diethylamino)sulfur trifluoride (DAST): preparation of chiral polyoxygenated tetrahydrofurans by stereoselective benzyloxy group participation. *Bulletin de la Societe Chimique de France* **1997**, *134* (2), 145-151.

128. Schneider, F.; Boiron-Sargueil, F.; Bessoule, J. J.; Lessire, R.; Moreau, P.; Levannier-Lucet, K.; Lellouche, J. P.; Mioskowski, C.; Cassagne, C., Towards a specific inhibition of plant leaf elongases. *Oils-Fats-Lipids 1995, Proceedings of the World Congress of the International Society for Fat Research, 21st, The Hague, Oct. 1-6, 1995* **1996**, *1*, 95-100.
129. Lucet-Levannier, K.; Lellouche, J.-P.; Mioskowski, C.; Schneider, F.; Cassagne, C., The hydrogenation of  $\beta$ -hydroxy- $\gamma$ -fluoro- $\gamma$ -ethylenic esters as an efficient approach to the fluorohydrin substructure. *Tetrahedron Letters* **1996**, *37* (12), 2007-10.
130. Gree, D. M.; Kermarrec, C. J. M.; Martelli, J. T.; Gree, R. L.; Lellouche, J.-P.; Toupet, L. J., The First Enantiocontrolled Synthesis of E,E Conjugated Dienes with a Fluorine Atom in the Allylic Position. *Journal of Organic Chemistry* **1996**, *61* (6), 1918-19.
131. Braun, A.; Toupet, L.; Lellouche, J.-P., The  $\eta^4$ -Dienyl Tricarbonyliron Moiety in Heterocyclic Synthesis. A Rare 1,2-Migration of the Complexation Site as a Key Step for a Novel Stereoselective Preparation of trans-2,3-Disubstituted 1,4-Dioxanes. *Journal of Organic Chemistry* **1996**, *61* (6), 1914-15.
132. Balavoine, F.; Besse, L.; Lellouche, J. P.; Mioskowski, C. Preparation of ruthenium bis{4,4'-bis[4-(4-benzoylbenzoyloxy)butoxycarbonyl]-2,2'-bipyridine} halides or carbonates and analogs for determination of protein topology. 1994-14359  
2727415, 19941130., 1996.
133. Schneider, F.; Bessoule, J. J.; Mioskowski, C.; Lellouche, J. P.; Levannier, K.; Cassagne, C., Design of new modulators of the very-long-chain fatty acids biosynthesis. *Plant Lipid Metabolism, [Papers presented at the International Meeting on Plant Lipids] -- 11th, Paris, June 26-July 1, 1994* **1995**, 131-2.
134. Lucet-Levannier, K.; Lellouche, J.-P.; Mioskowski, C., Polysilylated coenzyme A for a high-yielding preparation of very lipophilic acyl coenzymes A in anhydrous organic solvents. *Journal of the American Chemical Society* **1995**, *117* (28), 7546-7.
135. Lellouche, J. P.; Quirosa-Guillou, C., A new etherification reaction in the  $\eta^4$ -dienyltricarbonyliron series: access to the 2,5-disubstituted-1,4-dioxane core. *Synthetic Communications* **1995**, *25* (7), 977-93.
136. Lafargue, P.; Guenot, P.; Lellouche, J.-P., Preparation of 2-thiazolines from (1,2)-thioamido-alcohols; DAST as a useful reagent. *Synlett* **1995**, (2), 171-2.
137. Lafargue, P.; Guenot, P.; Lellouche, J.-P., (Diethylamino)sulfur trifluoride (DAST) as a useful reagent for the preparation of 2-oxazolines from 1,2-amido alcohols. *Heterocycles* **1995**, *41* (5), 947-58.
138. Quirosa-Guillou, C.; Lellouche, J.-P., Acyclic ( $\eta^5$ -Dienyl)tricarbonyliron(1+) Cations Generated in Situ in the Presence of Molecular Sieves: Modified Reactivity with Primary and Secondary Alcohols. *Journal of Organic Chemistry* **1994**, *59* (16), 4693-7.
139. Lellouche, J. P.; Quinton, P., (E)-(4R)-Dibenzoyloxyhex-2-enal 1-(ethylene acetal): a new chiral compound useful for eicosanoid synthesis. *Synthetic Communications* **1994**, *24* (14), 1979-88.
140. Lellouche, J.-P.; Levannier, K.; Mioskowski, C. Process for synthesizing fatty acid-acylated thiol transporter derivatives, particularly of acyl coenzyme A derivatives, and the acyl coenzyme A derivatives thus obtained. 1994-400675  
618218, 19940329., 1994.
141. Lafargue, P.; Dodi, A.; Ponchant, M.; Garcia, C.; Le Cavorsin, M.; Pujol, J.-F.; Lellouche, J.-P., Synthesis of [3',5'-<sup>3</sup>H<sub>2</sub>]- $\alpha$ -fluoromethyltyrosine as a radioactive specific label of rat brain tyrosine hydroxylase. *Bioorganic & Medicinal Chemistry* **1994**, *2* (8), 827-35.
142. Lellouche, J. P.; Gigou-Barbedette, A.; Gree, R., Total synthesis of (5R,6S)-, (5S,6S)-, and (11R,12S)-DIHETEs from chiral tricarbonyl( $\eta^4$ -butadiene)iron(0) complexes. *Bulletin de la Societe Chimique de France* **1993**, *129* (6), 605-24.
143. Lellouche, J.-P.; Gigou-Barbedette, A.; Gree, R., An unusual epimerization in the diene tricarbonyliron series. *Journal of Organometallic Chemistry* **1993**, *461* (1-2), 167-8.
144. Tornhamre, S.; Gigou, A.; Edenius, C.; Lellouche, J. P.; Lindgren, J. A., Conversion of 5,6-dihydroxyeicosatetraenoic acids. A novel pathway for lipoxin formation by human platelets. *FEBS Letters* **1992**, *304* (1), 78-82.
145. Toupet, L.; Gree, R.; Gigou-Barbedette, A.; Lellouche, J. P.; Beaucourt, J. P., Structures of diene-tricarbonyl iron complexed erythro and threo carbonates, key intermediates for the preparation of 5,6-dihetes and lipoxin A4. *Acta Crystallographica, Section C: Crystal Structure Communications* **1991**, *C47* (6), 1173-7.
146. Gigou, A.; Beaucourt, J. P.; Lellouche, J. P.; Gree, R., Total synthesis of (11R,12S)-diHETE. *Tetrahedron Letters* **1991**, *32* (5), 635-8.



147. Clouet, P.; Niot, I.; Bouchard, P.; Gree, R.; Lellouche, J. P.; Beaucourt, J. P.; Fonlupt, P.; Duperray, B.; Bezard, J.; Lagarde, M., Distribution of tritium labeled 12(S) hydroxy-eicosatetraenoic acid (12-HETE) in the rat. *Prostaglandins* **1991**, *42* (1), 39-45.
148. Antoine, C.; Lellouche, J. P.; Maclouf, J.; Pradelles, P., Development of enzyme immunoassays for leukotrienes using acetylcholinesterase. *Biochimica et Biophysica Acta, General Subjects* **1991**, *1075* (2), 162-8.
149. Pradelles, P.; Antoine, C.; Lellouche, J. P.; Maclouf, J., Enzyme immunoassays for leukotrienes C4 and E4 using acetylcholinesterase. *Methods in Enzymology* **1990**, *187* (Arachidonate Relat. Lipid Mediators), 82-9.
150. Pinsard, P.; Lellouche, J. P.; Beaucourt, J. P.; Gree, R., Synthesis and reactivity of chiral organometallic phosphonium salts. *Tetrahedron Letters* **1990**, *31* (8), 1137-40.
151. Pinsard, P.; Lellouche, J. P.; Beaucourt, J. P.; Cree, R., Syntheses of chiral iron-complexed analogs of leukotriene A4 and (5,6)-dihete. *Tetrahedron Letters* **1990**, *31* (8), 1141-4.
152. Parent, P.; Leborgne, F.; Lellouche, J. P.; Beaucourt, J. P.; Vanhove, A., Synthesis of N-[N-L- $\gamma$ -glutamyl-L-cysteinyl-(carbonyl-<sup>14</sup>C)]-glycine (glutathione-<sup>14</sup>C) and of [Cys-<sup>14</sup>CO]-(5S,6R)-LTC<sub>4</sub>. *Journal of Labelled Compounds and Radiopharmaceuticals* **1990**, *28* (6), 633-44.
153. Mosset, P.; Pointeau, P.; Aubert, F.; Lellouche, J. P.; Beaucourt, J. P.; Gree, R., A new practical enantiospecific synthesis of unlabeled and tritium-labeled 12-HETEs. *Bulletin de la Societe Chimique de France* **1990**, (March-April), 298-315.
154. Lellouche, J. P.; Beaucourt, J. P.; Vanhove, A., Preparation of tetradeuterated leukotriene A4 methyl ester: methyl-[11,12,14,15-<sup>2</sup>H<sub>4</sub>]-<sup>14</sup>C-(5S,6S)-oxido-(<sup>7</sup>E,<sup>9</sup>E,<sup>11</sup>Z,<sup>14</sup>Z)-eicosatetraenoate. *Methods in Enzymology* **1990**, *187* (Arachidonate Relat. Lipid Mediators), 70-6.
155. Pinsard, P.; Lellouche, J. P.; Beaucourt, J. P.; Toupet, L.; Schio, L.; Gree, R., New synthesis and reactions of a functionalized ( $\eta^4$ -butadienyl)tricarbonyliron complexed phosphonate. *Journal of Organometallic Chemistry* **1989**, *371* (2), 219-31.
156. Perrin, P.; Zirrolli, J.; Stene, D. O.; Lellouche, J. P.; Beaucourt, J. P.; Murphy, R. C., In vivo formation of  $\beta$ -oxidized metabolites of leukotriene E4 in the rat. *Prostaglandins* **1989**, *37* (1), 53-60.
157. Muller, A.; Rechencq, E.; Kugel, C.; Lellouche, J. P.; Beaucourt, J. P.; Niel, G.; Girard, J. P.; Rossi, J. C.; Bonne, C., Comparative biological activities of the four synthetic (5,6)-DiHETE isomers. *Prostaglandins* **1989**, *38* (6), 635-44.
158. Lellouche, J. P.; Aubert, F.; Noel, J. P.; Boullais, C.; Beaucourt, J. P., Synthesis of leukotrienes labeled with deuterium: [11,12,14,15-<sup>2</sup>H<sub>4</sub>]-LTA<sub>4</sub>, -LTC<sub>4</sub>, -LTD<sub>4</sub> and -LTE<sub>4</sub>. *Journal of Labelled Compounds and Radiopharmaceuticals* **1989**, *27* (4), 473-80.
159. Lellouche, J. P.; Aubert, F.; Beaucourt, J. P.; Rechencq, E.; Niel, G.; Girard, J. P.; Rossi, J. C.; Boucard, M., Synthesis and contractile activity of new acetylenic and allenic analogs of leukotrienes C4 and D4: importance of the Z-11,12 double bond. *Prostaglandins* **1989**, *37* (1), 93-103.
160. Le Gall, T.; Lellouche, J. P.; Toupet, L.; Beaucourt, J. P., Face selectivity during the cycloaddition reaction of nitrile oxides with iron complexed trienes. *Tetrahedron Letters* **1989**, *30* (47), 6517-20.
161. Le Gall, T.; Lellouche, J. P.; Beaucourt, J. P., An organo-iron mediated chiral synthesis of (+)-(S)-[6]-gingerol. *Tetrahedron Letters* **1989**, *30* (47), 6521-4.
162. Lagarde, M.; Boutillon, M. M.; Guichardant, M.; Lellouche, J. P.; Beaucourt, J. P.; Vanhove, A.; Gree, R., Further studies on the anti-thromboxane A<sub>2</sub> activity of monohydroxylated fatty acids. *Biochemical Pharmacology* **1989**, *38* (11), 1863-4.
163. Kugel, C.; Lellouche, J. P.; Beaucourt, J. P.; Niel, G.; Girard, J. P.; Rossi, J. C., Stereospecific total synthesis of (5,6)-DiHETE isomers. *Tetrahedron Letters* **1989**, *30* (37), 4947-50.
164. Gigou, A.; Lellouche, J. P.; Beaucourt, J. P.; Toupet, L.; Gree, R., A new synthesis of key intermediates for the preparation of (5,6)-dihete and lipoxin A<sub>4</sub>. *Angewandte Chemie* **1989**, *101* (6), 794-6.
165. Cuvinot, D.; Mangeney, P.; Alexakis, A.; Normant, J. F.; Lellouche, J. P., Chiral trifluoro diamines as convenient reagents for determining the enantiomeric purity of aldehydes by use of fluorine-<sup>19</sup> NMR spectroscopy. *Journal of Organic Chemistry* **1989**, *54* (10), 2420-5.
166. Pinsard, P.; Lellouche, J. P.; Beaucourt, J. P.; Gree, R., Synthesis, characterization and reactivity of dimethyl (2,3,4,5- $\eta$ )-(2E,4E)-nonadienephosphonate)iron tricarbonyl. *Journal of Organometallic Chemistry* **1988**, *354* (2), 193-202.
167. Lellouche, J. P.; Deschamps, J.; Boullais, C.; Beaucourt, J. P., Synthesis of diacetylenic analogs of leukotriene A4 (LTA<sub>4</sub>) methyl ester. *Tetrahedron Letters* **1988**, *29* (25), 3073-6.
168. Lellouche, J. P.; Bulot, E.; Beaucourt, J. P.; Martelli, J.; Gree, R., Butadiene-iron tricarbonyl complexes in the synthesis of chlorohydrins and diene epoxides. *Journal of Organometallic Chemistry* **1988**, *342* (2), C21-C25.

169. Lellouche, J. P.; Breton, P.; Beaucourt, J. P.; Toupet, L.; Gree, R., Epoxide synthesis in the butadiene-iron tricarbonyl series. *Tetrahedron Letters* **1988**, *29* (20), 2449-52.
170. Lellouche, J. P.; Aubert, F.; Beaucourt, J. P., Synthesis of tetradeuterated LTA4 methyl ester. *Tetrahedron Letters* **1988**, *29* (25), 3069-72.
171. Pichat, L.; Moustier, A. M.; Lellouche, J. P.; Beaucourt, J. P., Synthesis of tritiated 3-hydroxy-5-androstene-17-one (DHA) with high specific activity. *Journal of Labelled Compounds and Radiopharmaceuticals* **1986**, *23* (7), 723-40.
172. Perrin, P.; Aubert, F.; Lellouche, J. P.; Beaucourt, J. P., Total synthesis of p-(trifluoroacetamido)phenyl-LTA4 (methyl ester). *Tetrahedron Letters* **1986**, *27* (51), 6193-6.
173. Schott, D.; Rousseau, B.; Beaucourt, J. P.; Lellouche, J. P.; Pichat, L., Preparation of meso-2,6-diamino[3H-3,4,5]-1,7-heptanedioic (meso-diamino[3H-3,4,5]pimelic) acid. *Journal of Labelled Compounds and Radiopharmaceuticals* **1985**, *22* (2), 127-33.
174. Lellouche, J. P.; Beaucourt, J. P.; Pichat, L., Methods of synthesis of racemic agaric acid labeled with carbon-14 ( $\alpha$ -cetylcitric acid-1-carboxyl-14C or 2-hydroxynonadecane-1,2,3-tricarboxylic acid-3-carboxyl-14CO). *Journal of Labelled Compounds and Radiopharmaceuticals* **1984**, *21* (2), 115-23.
175. Lellouche, J. P.; Beaucourt, J. P.; Pichat, L., Syntheses of (2R,3S);(2S,3R)-agaric acid-4-14C1 and (2R,3R);(2S,3S)-agaric acid-4,4,5,5-t4. *Journal of Labelled Compounds and Radiopharmaceuticals* **1984**, *21* (2), 125-32.