

PUBLICATIONS 2015/2016

REVUES INTERNATIONALES

A.Y. El-Moghazy, E.A. Soliman, H.Z. Ibrahim, **J.-L. Marty, G. Istamboulié, T. Noguer**. Biosensor Based on Electrospun Blended Chitosan-Poly (vinyl alcohol) Nanofibrous Enzymatically Sensitized Membranes for Pirimiphos-methyl Detection in Olive Oil. [Talanta](#) **155** (2016) 258-266.

A. Vasilescu, C. Purcarea, E. Popa, M. Zamfir, I. Mihai, S. Litescu, S. David, S. Gaspar, M. Gheorghiu, **J.-L. Marty**. Versatile SPR aptasensor for detection of lysozyme dimer in oligomeric and aggregated mixtures. [Biosensors and Bioelectronics](#), **83** (2016) 353-360.

D. Bueno, R. Muñoz, **J.-L. Marty**. Fluorescence analyzer based on smartphone camera and wireless for detection of Ochratoxin A. [Sensors and Actuators B: Chemical](#), **232** (2016) 462-468.

N. Mejri, A. Miodek, B. Zribi, M. Marrakchi, M. Hamdi, **J.-L. Marty**. H. Korri-Youssoufi. Direct detection of OTA by impedimetric aptasensor based on modified polypyrrole-dendrimers. [Analytica Chimica Acta](#), **920** (2016) 37-46.

G. Catanante, R.K. Mishra, A. Hayat, **J.-L. Marty**. Sensitive analytical performance of folding based biosensor using methylene blue tagged aptamers. [Talanta](#), **153** (2016) 138-144.

R. K. Mishra, **G. Catanante**, A. Hayat, **J.-L. Marty**. Development and evaluation of extraction methods for Ochratoxin A detection in cocoa beans. [Food Additives and Contaminants - Part A Chem Anal Control Expo Risk Assess](#), **33** (2016) 500-508.

A. Vasilescu, **J.-L. Marty**. Electrochemical aptasensors for the assessment of food quality and safety. [Trends in Analytical Chemistry](#), **79** (2016) 60-70.

R. K. Mishra, A. Hayat, **G. Catanante, G. Istamboulié, J.-L. Marty**. Sensitive quantitation of Ochratoxin A in cocoa beans using differential pulse voltammetry based aptasensor. [Food Chemistry](#), **192** (2016) 799-804.

A. Sharma, **G. Catanante**, A. Hayat, **G. Istamboulié**, I. Ben Rejeb, S. Bhand, **J.-L. Marty**. Development of structure signaling aptamer assay for detection of aflatoxin M1 in milk sample. [Talanta](#), **158** (2016) 35-41.

G. Catanante, A. Rhouati, A. Hayat, **J.-L. Marty**. An overview of recent electrochemical immunosensing strategies for mycotoxins detection. [Electroanalysis](#), acceptée mai 2016.

A. Hayat, A. Rhouati, R. K Mishra, **D. Bueno**, R. Munoz, **J.-L. Marty**. Ligand assisted stabilization of fluorescence nanoparticles; an insight on the fluorescence characteristics, dispersion stability and DNA loading efficiency of nanoparticles. [Journal of fluorescence](#), online: 21 Mai 2016.

K Y. Goud, A. Sharma, A. Hayat, **G. Catanante**, K. Vengatajalabathy Gobi, A.-M. Gurban, **J.-L. Marty**. Tetramethyl-6-carboxyrhodamine Quenching Based Aptasensing Platform for Aflatoxin B1: Analytical performance comparison of two aptamers. [Anal Biochemistry](#), online: 29 May 2016.

E. Rocaboy-Faquet, L. Barthelmebs, C. Calas-Blanchard, T. Noguer. A novel amperometric biosensor for β -triketone herbicides based on hydroxyphenylpyruvate dioxygenase inhibition: a case study for sulcotrione. [Talanta](#) **146** (2016) 510-516.

G. Istamboulié, N. Paniel, L. Zara, L. Reguillo Granados, **L. Barthelmebs, T. Noguer**. Development of an impedimetric aptasensor for the determination of aflatoxin M1 in milk. [Talanta](#) **146** (2016) 464-469.

A.Y. El-Moghazy, E.A. Soliman, H.Z. Ibrahim, **T. Noguer, J.-L. Marty, G. Istamboulié**. Ultra-sensitive biosensor based on genetically engineered acetylcholinesterase immobilized in poly (vinyl alcohol)/Fe-Ni alloy nanocomposite for

phosmet detection in olive oil. [Food Chemistry 203 \(2016\) 73–78.](#)

A. Hayat, A. Rhouati, R. Mishra, G. Alonso, M. Nasir, **G. Istamboulié, J.-L. Marty.** An electrochemical sensor based on TiO₂/activated carbon nanocomposite modified screen-printed electrode and its performance for phenolic compounds detection in water samples. [International Journal of Environmental Analytical Chemistry 96 \(2016\) 237–246.](#)

C. Calas-Blanchard, G. Istamboulié, M. Bontoux, G. Plantard, V. Goetz, T. Noguer. Biosensor-based real-time monitoring of paracetamol photocatalytic degradation. [Chemosphere 131 \(2015\) 124–129.](#)

G. Catanante, L. Espin, J.-L. Marty. Sensitive biosensor based on recombinant PP1 for microcystin detection. [Biosensors and Bioelectronics 67\(2015\) 700–707.](#)

R.B. Dominguez, G.A. Alonso, R. Muñoz, A. Hayat, J.-L. Marty. Design of a novel magnetic particles based electrochemical biosensor for organophosphate insecticide detection in flow injection analysis. [Sensors and Actuators B: Chemical, 208, \(2015\) 491-496.](#)

R.K. Mishra, G.A. Alonso, **G. Istamboulié, S. Bhand, J.-L. Marty.** Automated flow based biosensor for quantification of binary organophosphates mixture in milk using artificial neural network. [Sensors and Actuators B: Chemical, 208 \(2015\) 228-237.](#)

C. Ocaña, A. Hayat, R. Mishra, A. Vasilescu, M. del Valle, **J.-L. Marty.** Label free aptasensor for lysozyme detection: a comparison of the analytical performance of two aptamers. [Bioelectrochem., 105 \(2015\) 72-77.](#)

F. Charmantray, N. Touisni, L. Hecquet, **T. Noguer, C. Mousty.** Galactose oxidase/Prussian Blue-based biosensors. [Electroanalysis 27 \(2015\) 1341-1344.](#)

C. Ocaña, A. Hayat, R. Mishra, A. Vasilescu, M. del Valle, **J.-L. Marty.** A novel electrochemical aptamer–antibody sandwich assay for lysozyme detection. [Analyst 140 \(2015\) 4148-4153.](#)

W. Haider, A. Hayat, Y. Raza, A. Anwar, I. Ur Rehman, **J.-L. Marty.** Gold nanoparticle decorated single walled carbon nanotubes nanocomposite with Synergistic peroxidase like activity for D-alanine detection. [RSC Adv. 32 \(2015\) 24853–24858.](#)

S. Romdhane, M. Devers-Lamrani, F. Martin-Laurent, C. Calvayrac, E. Rocaboy-Faquet, D. Riboul, J.F. Cooper, L. Barthelmebs. Isolation and characterization of Bradyrhizobium sp. SR1 degrading two -triketone herbicides. [Environmental Science and Pollution Research DOI 10.1007/s11356-015-4544-1.](#)

G. Catanante, L. Espin, J.-L. Marty. Sensitive biosensor based on recombinant PP1 for microcystin detection. [Biosens. Bioelectron. 67 \(2015\) 700-707.](#)

R. K. Mishra, A. Hayat, **G. Catanante, C. Ocaña, J.-L. Marty.** A label free aptasensor for Ochratoxin A detection in cocoa beans: An application to chocolate industries. [Anal. Chim. Acta, 889 \(2015\) 106-112.](#)

A. Hayat, W. Haider, Y. Raza, **J.-L. Marty.** Colorimetric cholesterol sensor based on peroxidase like activity of zinc oxide nanoparticles incorporated carbon nanotubes. [Talanta, 143 \(2015\) 157-161.](#)

CHAPITRES D'OUVRAGES

G. Nunes, M.H. Nawaz, A. Hayat, **J.-L. Marty.** Evaluation and improvement of the sensitivity in electrochemical methods for trace analysis. In « New Trends on Monitoring And Diagnosis For Health Sciences », M. Badea and L. Floroian Eds (ISBN : 978-3-659-77699-1)

CONGRÈS

L. Barthelmebs, S. Romdhane, M. Devers-Lamrani, C. Calvayrac, F. Dayan, C. Bertrand, J.-F. Cooper, F. Bonnemoy, I. Batisson, F. Martin-Laurent. (Conférence) Fate and impact of leptospermone, a natural -triketone herbicide, in soil. SETAC Europe 26th Annual Meeting, Nantes (France), 22-26 Mai 2016.

T. Noguer, G. Istamboulié, N. Paniel, C. Calas-Blanchard, L. Barthelmebs. (Conférence) Biocapteurs aptamériques pour la détection des aflatoxines. 3ème Journées mycotoxines, Toulouse, (France) 15-16 Mars 2016

J.-L. Marty. (Conférence invitée) Biosensors and food analysis. 4th Conference on « Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2016", Brasov (Romania), June 29th – July 1st, 2016.

Y. Gould. (Conférence) A label free electrochemical impedimetric aptasensor for aflatoxin B1 detection. 9eme Congrès de la Societat Catalane de Quimica, Perpignan 3-5 février 2016

S. Romdhane, M. Devers-Lamrani, F. Martin-Laurent , **C. Calvayrac,** E. Rocaboy-Faquet, J.-F. Cooper, **L. Barthelmebs.**(Conférence) Isolement et caractérisation de Bradyrhizobium sp. SR1 dégradant deux herbicides -tricotones. 45ème Congrès du Groupe Français des Pesticides, Versailles (France), 27-29 Mai 2015.

R.K. Mishra, A. Hayat, **G. Catanante, J.-L. Marty** (Conférence) Innovative approaches for OTA biosensing in real samples using different electrochemical aptasensors. 15th ISEAC (the International Symposium on Electroanalytical Chemistry), Changchun (Chine), 13-16 août 2015.

J.-L. Marty. (Conférence invitée) Are BIOSENSORS suitable tools for monitoring pollutants in aquatic environments? New Trends in Sensing- Monitoring- Telediagnosis for Life Sciences, Brasov (Romania), 3-5 Septembre 2015.

A. Sharma, A. Hayat, R. K. Mishra, **G. Catanante,** S. Bhand, **J.-L. Marty.** (Conférence) Aptamer assay: A novel sensing strategy for detection of target analyte using nanomaterial. BBMEC-11, Regensburg, Germany, 26-30 Septembre 2015.

E. Rocaboy-Faquet, **L. Barthemebis, C. Calas-Blanchard, T. Noguer.** (Conférence) Development of electrochemical biosensors for β -triketone herbicides detection based on HPPD inhibition. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

A. Sharma, A. Hayat, R. K. Mishra, **G. Catanante,** S. Bhand and **J.-L. Marty.** (Conférence) Aptamer assay: A nanomaterial based sensing platform for detection of target molecules. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

S. Romdhane, M. Devers-Lamrani, F. Martin-Laurent, C. Bertrand C., J.-F. Cooper, **C. Calvayrac, L. Barthelmebs.** (Conférence) Soil microbial ecotoxicology of synthetic and natural -triketone herbicides. BioMicroWorld 2015, VI international conference on Environmental, Industrial, and applied Microbiology, Barcelone (Espagne), 28-30 Octobre 2015.

E. Da Silva, N. Paniel, J. Baudart, **L. Barthelmebs.** (Conférence) Looking for alternative methods for bacteria monitoring in marine environment. BioMicroWorld 2015, VI international conference on Environmental, Industrial, and applied Microbiology, Barcelone (Espagne), 28-30 Octobre 2015.

I. Zergioti, M. Massaouti, C. Kouloumentas, H. Avramopoulos, H. Leeuwis, E. Schreuder, S. Graf, H. Knapp, **L. Barthelmebs, T. Noguer,** G. Tsekenis, L. Scheres, A. Triling, M. Smulders, H. Zuilhof, G. Hessink, A. Romero, L. Granados, J. Riskey. (Conférence) Biofos: micro-ring resonator based biophotonic system for food analysis. 7th International symposium on Recent Advances in Food Analysis (RAFA 2015), Prague (Czech Republic), 3-6 Novembre 2015.

S. Romdhane, M. Devers-Lamrani, F. Martin-Laurent, J.-F. Cooper, **C. Calvayrac, L. Barthelmebs.** (Poster) Biodegradation of synthetic -triketone herbicides. SETAC Europe 26th Annual Meeting, May 2016, Nantes, France.

C. Calvayrac, E. Rocaboy-Faquet, **S. Romdhane,** M. Devers-Lamrani, F. Martin-Laurent , L. Carles, M. Joly, I. Batisson, C. Mallet, C. Bertrand, J.-F. Cooper, P. Besse-Hoggan, F.E Dayan, **C. Blanchard, T. Noguer, L. Barthelmebs.** (Poster) Impact environnemental des herbicides -tricotones synthétiques et naturels. 45ème Congrès du Groupe Français des Pesticides, Versailles, 27-29 Mai 2015.

D. Bueno, R. K. Mishra, R. Muñoz, **J.-L. Marty.** (Poster) Detection methods for Ochratoxin A in wine samples . Journées d'électrochimie, Rome (Italie), 6-10 juillet 2015.

N. Mejri, M. Marrakchi, **J.-L. Marty,** H. Korri Youssoufi. (Poster) Electrochemical Aptasensors of Ochratoxin A Based On Modified Polypyrrole Journées d'électrochimie, Rome (Italie), 6-10 juillet 2015.

R. K Mishra, A. Sharma, A. Hayat, S. Bhand, **J.-L. Marty**(Poster) . OTA biosensing in real matrix using folding based electrochemical aptasensor. 15th ISEAC (the International Symposium on Electroanalytical Chemistry), Changchun (Chine) 13-16 August 2015.

N. Aftim, G. Istamboulié, C. Calas-Blanchard, T. Noguer. (Poster) Synthesis of molecularly-imprinted polymers by precipitation polymerization for the selective extraction of Phosmet from olive oil. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

N. Paniel, G. Istamboulié, L. Barthelmebs, T. Noguier. (Poster) Aptamers for real time in situ food analysis. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

E. Da-Silva, J. Baudart and L. Barthelmebs. (Poster) Development of molecular-based sensors for marine environment analysis. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

A. Sharma, A. Hayat, R. K. Mishra, **G. Catanante**, S. Bhand and **J-L. Marty.** (Poster) Quenching based aptamer assay: A sensing platform for detection of target analyte. 20th Cross-border Meeting on Sensors and Biosensors, Perpignan (France), 1-2 Octobre 2015.

S. Romdhane, M. Devers-Lamrani, C. Bertrand, **C. Calvayrac**, J.-F. Cooper, **L. Barthelmebs**, F. Martin-Lauren. (Poster) La leptospermone, un herbicide -tricétone naturel : son impact sur la communauté bactérienne du sol ? Congrès des doctorants de l'UPVD, Perpignan, France, 6-7 Novembre 2015.

N. Aftim, G. Istamboulié, C. Calas-Blanchard, T. Noguier. (Poster) Polymères à empreintes moléculaires pour la détection du phosmet. Congrès des doctorants de l'UPVD, Perpignan, France, 6-7 Novembre 2015.

G. Istamboulié, N. Paniel, L. Reguillo Granados, L. Barthelmebs, T. Noguier. (Poster) An impedimetric aptasensor for the determination of aflatoxin M1 in milk. 7th International symposium on Recent Advances in Food Analysis (RAFA 2015), Prague, Czech Republic, 3-6 Novembre 2015.

N. Aftim, G. Istamboulié, C. Calas-Blanchard, T. Noguier. (Poster) Computational and biosensor investigation of molecular imprinted polymers for selective extraction of phosmet from olive oil. 7th International symposium on Recent Advances in Food Analysis (RAFA 2015), Prague, Czech Republic, 3-6 Novembre 2015.

S. Romdhane, M. Devers-Lamrani, C. Bertrand, **C. Calvayrac**, J.-F. Cooper, **L. Barthelmebs**, F. Martin-Laurent. (Poster) Impact écotoxicologique de la leptospermone, un herbicide -tricétone naturel, sur l'abondance et la diversité de la communauté bactérienne du sol. 7ème colloque de l'Association Francophone d'Ecologie Microbienne, Anglet, France, 4-6 Novembre 2015.

A. Sharma, A. Hayat, R. K. Mishra, **G. Catanante**, S. Bhand and **J-L. Marty.** (Poster) Aptamer assay: A novel sensing platform for detection of target molecule using nanomaterial. BBMEC-11, Regensburg (Germany), 26-30 Septembre 2015.

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