

## CURRICULUM VITAE

### Andreea PASC

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### EXPÉRIENCES PROFESSIONNELLES

- 2006-aujourd'hui Maître de Conférences, SRSMC UMR 7565, Université de Lorraine
- Mai-Juillet 2013 chercheure invitée (3 mois), School of Chemistry, University of Bristol (UK), dans le groupe du Prof. J. Eastoe, STSM COST CM1101  
« *Tensioactifs et nanoparticules solides lipidiques magnétiques* »
- 2012-2013 Délégation au CNRS (1 an), section 11, Université de Lorraine, équipe Physico-chimie des Colloïdes, SRSMC UMR 7565 (responsable d'équipe Dr. M.-J. Stébé)
- 2005 – 2006 Chercheure post-doctoral CNRS, Institut Européen des Membranes de Montpellier; équipe Nanomatériaux Supramoléculaires Adaptatifs, coordinateur Dr. M. Barboiu.  
« *Conception et élaboration de systèmes mésoporeux fonctionnalisés* »
- 2004 – 2005 Chercheure post-doctoral, Technische Universität München, Allemagne ; Laboratoire de Biophysique, coordinateur Prof. M. Tanaka,  
« *Glycolipides fluorocarbonés: conception, synthèse et physico-chimie* »
- 2003 – 2004 ATER (½ poste), Université Paul Sabatier, Toulouse
- 2000 – 2003 Monitorat en chimie, Université Paul Sabatier, Toulouse.

### TITRES UNIVERSITAIRES FRANÇAIS

- 2012 **Habilitation à diriger des recherches**, Ecole Doctorale Lorraine de Chimie et Physique Moléculaire, diplôme soutenu le 24 mai 2012  
« *Chimie organique appliquée aux systèmes moléculaires organisés* ».
- 2000 – 2004 **Doctorat en Sciences**, spécialité : Chimie Moléculaire et Supramoléculaire  
Thèse soutenue le 19 mars 2004. Mention très honorable.  
Bourse doctorale (programme "Fluorous Phase") IMRCP UMR 5623, Université Paul Sabatier, Toulouse. Directrice de thèse Dr. I. Rico-Lattes,  
« *Nouveaux assemblages moléculaires fluorés: ingénierie, morphologies et applications en catalyse* »
- 2000 **Diplôme d'Etudes Approfondies de Chimie Moléculaire et Supramoléculaire**  
Université Paul Sabatier, Toulouse. Mention Bien. (Major de promotion)  
stage au laboratoire IMRCP UMR 5623, coordonné par Dr. I. Rico-Lattes  
« *Induction asymétrique en milieu supramoléculaire chiral – Réduction de cétones et d'imines prochirales par le NaBH<sub>4</sub>* »
- 1999 **Maîtrise de Chimie**, Université Paul Sabatier, Toulouse. Mention AB (position 5<sup>ème</sup>/69).

### DIPLOMES – TITRES ETRANGERS

- 2000 **Ingénieur**, Université « Politehnica » Bucarest, Roumanie. Filière Génie Chimique. Mention TB
- 1995 **Baccalauréat** en chimie-biologie, Lycée C.A. Rossetti, Bucarest, Roumanie. Mention TB.

## ACTIVITES DE RECHERCHE

### Domaines de recherche et compétences

Mes activités de recherche sont centrées autour de la matière molle et des matériaux hybrides nano-structurés, et concernent plus particulièrement:

- les systèmes moléculaires organisés et les matériaux hybrides stimuli-sensibles (pH, T, champ magnétique) pour des applications dans le domaine de la **nanomédecine** (vecteurs de principes actifs);
- la bioencapsulation (enzymes, bactéries probiotiques) pour la délivrance de nutriments ou la **biocatalyse**
- les **catalyseurs supportés méso-macroporeux**

Ces activités sont pluridisciplinaires et font intervenir les domaines suivants :

- chimie organique (synthèse de tensioactifs fonctionnels, stimuli-sensibles, ou de synthons pour la fonctionnalisation de matériaux inorganiques)
- physico-chimie (ingénierie colloïdale et développement de nouveaux dispositifs (supra)moléculaires, nanoparticules solides lipidiques, vésicules, gels ; analyse par SAXS et SANS)
- chimie des matériaux (élaboration de matériaux organisés, poreux ou hybrides organiques-inorganiques par procédé sol-gel, matériaux carbonés)

### Production scientifique

**57 ACL** (dont 19 auteur correspondant\*), **5 actes de congrès**, **1 chapitres de livre\***, (indice h=14, indice i10=22, 690 citations, <https://scholar.google.fr/citations?user=IBaX9j4AAAAJ&hl=fr>)

**3 conférences invitées**, **1 keynote**, **3 séminaires internationaux invités**, **1 conférence grand public**, **36 communications orales internationales**, **18 communications orales nationales et 38 posters**

## PRODUCTION SCIENTIFIQUE

### PUBLICATIONS

#### 2017

P1. **Silica-based systems for oral delivery of drugs, macromolecules and cells**, R. Diab, N. Canilho, I. A. Pavel, F. B. Haffner, M. Girardon, A. Pasc\* *Adv. Colloid Interface Sci.* (SI : Biocolloidnanotechnology) 10.1016/j.cis.2017.04.005 (IF 7,813).

P2. **Fully carbon metasurface: absorbing coating in microwaves**, D. Bychanok\*, S. Li, G. Gorokhov, K. Piasotski, D. Meisak, P. P. Kuzhir, E. Burgess, C. Gallagher, F. Y. Ogrin, A.P. Hibbins, A. Pasc, A. Sanchez-Sanchez, V. Fierro, A. Celzard, *Journal of Applied Physics* (accepté) (IF 2,101).

P3. **Effect of meso vs macro-size of hierarchical porous silica on the adsorption and activity of immobilized  $\beta$ -galactosidase**, I.-A. Pavel, S. F. Prazeres, G. Montalvo, C. Garcia Ruiz, V. Nicolas, A. Celzard, F. Dehez, L. Canabady-Rochelle, N Canilho,\* A. Pasc\* *Langmuir* DOI: 10.1021/acs.langmuir.7b00134.

P4. **Advances in Multifunctional Surface Coating using Metal-Phenolic Networks**, S. Kim\*, A. Pasc *J. Korean Chem. Soc.* DOI : 10.1002/bkcs.11123

P5. **Stability analysis of tannin-based foams using multiple light-scattering measurements**, Delgado-Sánchez, C., Fierro, V., Li, S., Pasc, A., Pizzi, A., Celzard\*, *A. European Polymer Journal*, **2017**, *87*, 318.

#### 2016

P6. **Core-shell alginate@silica microparticles encapsulating probiotics**, Haffner, F. B., Girardon, M., Etienne, M., Fontanay, S., Canilho, N., Duval, R. E., Mierzwa, M., Diab, R., Pasc, A.\* *J. Mater. Chem. B*, **2016**, *4*, 7929-7935.

P7. **Salting Effect in the Hydrothermal Carbonisation of Bioresources**, Li, S., Celzard\*, A., Fierro, V., Pasc\*, *A. ChemistrySelect*, **2016**, *1*(14), 4161–4166.

P8. **Hollow carbon spheres, synthesis and applications – a review**, Li, S., Pasc, A., Fierro, V., Celzard\*, A., *J. Mater. Chem. A*, **2016**, *4*(33), 12686–12713.

P9. **Spin state as a probe of vesicle self-assembly**, Kim, S., Bellouard\*, C., Eastoe, J., Canilho, N., Rogers, S. E., Ihiwakrim, D., Ersen, O., Pasc\*, A., *J. Am. Chem. Soc.*, **2016**, *38* (8), 2552-2255.

P10. **Core-shell microcapsules of solid lipid nanoparticles and mesoporous silica for enhanced oral delivery of curcumin**, Kim, S., Diab\*, R., Joubert, O., Canilho, N., Pasc\*, A. *Colloids Surf. B Biointerfaces*, **2016**, *140*, 161–168.

P11. **Easy and eco-friendly synthesis of ordered mesoporous carbons by self-assembly of tannin with a block copolymer**, Braghioroli, F. L., Fierro\*, V., Parmentier, J., Pasc, A., Celzard, A., *Green Chem.*, **2016**, DOI: 10.1039/C5GC02788H.

P12. **Hollow carbon spheres in microwaves: Bio inspired absorbing coating**, Bychanok\*, D., Li, S., Sanchez-Sanchez, A., Gorokhov, G., Kuzhir, P., Ogrin, F. Y., Pasc, A., Ballweg, T., Mandel, K., Szczurek, A., Fierro, V., Celzard, A., *Applied Physics Letters*, **2016**, *108*(1), 013701. *Top 25 of most read 2016 APL articles*

P13. **Hybrid Hierarchical Porous Silica Templated in Nanoemulsions for Drug Release**, Riachy, P., Roig, F., García-Celma, M. - J., Stébé, M. - J., Pasc, A., Esquena, J., Solans, C., Blin\*, J. L., *Eur. J. Inorg. Chem.*, **2016**, DOI: 10.1002/ejic.201501127.

P14. **Nano-emulsions as imprints for the design of hierarchical porous silica through a dual templating mechanism**, Riachy, P., Stébé, M.-J., Lebeau, B., Pasc, A., Vidal, L., Blin\*, J. - L., *Micropor. Mesopor. Mater.*, **2016**, *221*, 228–237.

P15. **Encapsulation of probiotics: insights into academic and industrial approaches**, Haffner, F.B., Diab\*, R., Pasc, A., *AIMS Materials Science*, **2016**, *3*(1), 114–136.

## 2015

P16. **Metallo-Solid Lipid Nanoparticles as Colloidal Tools for Meso-Macroporous Supported Catalysts**, Kim, S., Durand, P., Roques-Carnes, T., Eastoe, J., Pasc\*, A., *Langmuir*, **2015**, *31* (5), 1842– 1849.

P17. **pH- and glutathione-responsive release of curcumin from mesoporous silica nanoparticles coated using tannic acid-Fe(III) complex**, Kim\*, S., Philippot, S., Fontanay, S., Duval, R. E., Lamouroux, E., Canilho, N., Pasc\*, A., *RSC Adv.*, **2015**, *5*(110), 90550–90558.

P18. **Solid lipid nanoparticle - functional template of meso-macrostructured silica materials**, Kim, S., Jacoby, J., Stébé, M.-J., Canilho, N., Pasc\*, A. ACS books, Symposium Series volume "Green Polymer Chemistry III: Biobased Materials and Biocatalysis" **2015**, vol. 1192, pp 269-283.

## 2014

P19. **pH-controlled delivery of curcumin from compartmentalized solid lipid nanoparticles@ mesostructured silica matrix**, Kim, S., Stébé, M. - J., Blin, J. - L., Pasc\*, A., *J. Mater. Chem. B*, **2014**, *2*, 7910-7917.

P20. **Meso-macro compartmentalized bioreactor obtained through silicalization of "green" double emulsions : W/O/W and W/SLN/W**, Blin, J. - L., Jacoby, J., Kim, S., Stébé, M. - J., Canilho, N., Pasc\*, A., *Chem. Commun.*, **2014**, *50*, 11871–11874.

## 2013

P21. **Nanoparticles-free magnetic mesoporous silica with magneto-responsive surfactants**, Kim, S., Bellouard, C., Pasc\*, A., Lamouroux, E., Blin, J. - L., Carteret, C., Fort, Y., Emo, M., Durand, P., Stébé, M. - J. *J. Mater. Chem. C*, **2013**, *1* (42), 6930.

P22. **Electrostatic vs covalent bond in modified Jeffamine: effect on the phase behaviour and on the templating of mesoporous silica**, Canilho, N., Pasc\*, A., Emo, M., Stébé, M. - J., Blin, J. - L. *Soft Matter*, **2013**, *9*, 10832-10840.

P23. **Isocyanate-mediated covalent immobilization of *Mucor miehei* lipase onto SBA-15 for transesterification reaction**, Canilho, N., Jacoby, J., Pasc, A., Carteret, C., Dupire, F., Stébé, M. J., Blin\*, J. L. *Colloids and Surfaces B: Biointerfaces*, **2013**, *112*, 139–145.

P24. **Ordered Mesoporous Materials Containing *Mucor Miehei* Lipase as Biocatalyst for Transesterification Reaction**, Jacoby, J., Pasc, A., Carteret, C., Dupire, F., Stébé, M.-J., Coupard, V., Blin\*, J.-L., *Process Biochemistry* **2013**, *48*, 831-837.

P25. **Supported Membranes Meet Flat Fluidics: Monitoring Dynamic Cell Adhesion on Pump-Free Microfluidics Chips Functionalized with Supported Membranes Displaying Mannose Domains**, Oelke, J., Kaindl, T., Pasc, A., Guttenberg, Z., Wixforth, A., Tanaka\*, M. *Materials* **2013**, *6*, 669-681.

P26. **Metastable micelles and true liquid crystal behaviour of newly designed "cataniomeric" surfactants**, Emo, M., Stébé, M.J., Blin, J.-L., Pasc\*, A. *Soft Matter* **2013**, *9*, 2760-2768.

P27. **Solubilization of Decane into Gemini Surfactant with a Modified Jeffamine Backbone: Design of Hierarchical Porous Silica**, May, A., Pasc, A., Stébé, M.-J., Gutiérrez J.M., Porras, M., Blin\*, J.-L., *Micropor. Mesopor. Mater.* **2013**, *169*, 235-241.

P28. **Supramolecular hydrogel based on an original pseudopeptidic catanionic surfactant**, Obounou Akong, F., Pasc, A., Emo, M., Gérardin-Charbonnier\*, C., *New J. Chem.* **2013**, *37*, 559-562.

## 2012

P29. **Tuning the morphology and the structure of hierarchical meso-macroporous silica by dual templating with micelles and solid lipid nanoparticles (SLN)**, Ravetti-Duran, R.; Blin, J.-L.; Stébé, M.-J.; Castel, C.; Pasc\*, A.; *J. Mater. Chem.* **2012**, *22* (40), 21540 - 21548.

P30. **Tailored Jeffamine Molecular Tools for Ordering Mesoporous Silica**, May, A., Pasc, A., Stébé, M.-J., Gutiérrez J.M., Porras, M., Blin\*, J.-L., *Langmuir* **2012**, *28*(25), 9816–9824.

P31. **Hydrogels obtained from an original catanionic system for efficient formulation of boron wood-preservedatives**, Obounou Akong, F., Mutlu, M., Pasc, A., Cosgun, S., Gérardin, P., Gérardin-Charbonnier\*, C., *International Biodeterioration & Biodegradation* **2012**, *17* (4), 2385.

- P32. **Amino-ethoxilated fluorinated amphiphile: Synthesis, self-assembling properties and interactions with ssDNA**, Dupuy, N., Pasc\*, A., Parant, S., Fontanay, S., Duval, R.E., Gérardin, C. *J. Fluor. Chem.* **2012**, *135*, 330-338.
- P33. **Synthesis and self-assembling behavior of F-amphiphilic functionalized amines**, Dupuy, N., Pasc, A., Mayot, E., Cosgun, S., Gérardin-Charbonnier\*, C. *J. Fluor. Chem.* **2012**, *134*, 115-121.

### **2003-2011**

- P34. **Solid lipid nanoparticles (SLN) templating of macroporous silica beads**, Pasc\*, A., Blin, J.-L.; Stébé, M.-J.; Ghanbaja, J. *RSC Adv.* **2011**, *1(7)*, 1204-1206.
- P35. **Langmuir isotherm analysis of novel branched per-fluorinated surfactants and their interactions with single stranded DNA**, Dupuy, N., Pasc\*, A., Baros, F., Gérardin, C. *J. Fluor. Chem.* **2011**, *132*, 892-897.
- P36. **Differences between  $\beta$ Ala and GlyGly in the design of Amino acids-based hydrogels**, Pasc, A., Obounou Akong, F., Cosgun, S., Gérardin\*, C. *Beilstein J. Org. Chem.* **2010**, *6*, 973-977.
- P37. **Regulation of adhesion behavior of murine macrophage using supported lipid membranes displaying tunable mannose domains**, Kaindl, T., Oelke, J., Pasc, A., Kaufmann, S., Konovalov, O., Funari, S.S., Engel, U., Wixforth, A., Tanaka\*, M. *J. Phys. Cond. Matt.* **2010**, *22*, art. no. 285102.
- P38. **Microscopic and macroscopic anisotropy in supramolecular hydrogels of histidine-based surfactants**, Pasc\*, A., Gizzi, P., Dupuy, N., Parant, S., Ghanbaja, J., Gérardin, C. *Tetrahedron Lett.* **2009** *50* (45), pp.6183-6186.
- P39. **Molecular tailored Histidine-based complexing Surfactants: from micelles to hydrogels**, Gizzi, P., Pasc, A., Dupuy, N., Parant, S., Henry, B., Gérardin, C. *Eur. J. Org. Chem.* **2009** (23), pp.3953-3963.
- P40. **Dynamic hybrid materials for constitutional self-instructed membranes**, Cazacu, A., Legrand, Y.-M., Pasc, A., Nasr, G., van der Lee, A. and Barboiu\*, M. *Proc. Natl. Acad. Sci. USA.* **2009**, *106* (20), 8117-8122.
- P41. **Highly Uniform, Strongly Correlated Fluorinated Lipid Nano-Domains Embedded in Biological Membrane Models**, Oelke, J., Pasc, A., Wixforth, A., Konovalov, O., Tanaka\*, M. *Appl. Phys. Lett.* **2008**, *93* (21), art. no. 213901.
- P42. **Functional organic-inorganic hybrid membranes (rev)**, Barboiu\*, M., Cazacu, A., Michau, M., Caraballo, R., Arnal-Hérault, C., Pasc-Banu, A. *Chemical Engineering and Processing: Process Intensification* **2008**, *47* (7), 1044-1052.
- P43. **Ion-conduction pathways in self-organised ureidoarene-heteropolysiloxane hybrid membranes**, Michau, M., Barboiu\*, M., Caraballo, R., Arnal-Hérault, C., Perriat, P., Van der Lee, A., Pasc, A. *Chem. Eur. J.* **2008**, *14* (6), 1776-1783.
- P44. **Functional G-Quartet Macroscopic Membrane Films**, Arnal-Hérault, C., Pasc, A., Michau, M., Barboiu\*, M. *Angew. Chem. Int. Ed. Engl.* **2007**, *46*, (44) 8409-8413.
- P45. **Dynamic Supramolecular Hybrid and Mesoporous Membranes**, Cazacu, A., Michau, M., Caraballo, R., Arnal-Hérault, C., Pasc-Banu, A., Ayrat, A., Barboiu\*, M. *Annales de Chimie - Science des Matériaux* **2007**, *32*(2), 127-140.
- P46. **Constitutional Self-Organization of Adenine-Uracil-Derived derived Hybrid Materials**, Arnal-Hérault, C., Barboiu\*, M., Pasc, A., Michau, M., Perriat, P., Van der Lee, A. *Chem. Eur. J.* **2007**, *13*, 6792-6800.
- P47. **Amplification and Transcription of the Dynamic Supramolecular Chirality of the Guanine Quadruplex (cover communication papers)**, Arnal-Hérault, C., Banu, A., Barboiu\*, M., Michau, M., Van der Lee, A. *Angew. Chem. Int. Ed. Engl.* **2007**, *46*, 4268-4272.
- P48. **Physical study of the arrangement of pure cationic glycolipids and interaction with phospholipids, in support of the optimization of anti-HIV therapies (rev)**, Soussan, E., Blanzat\*, M., Rico-Lattes, I., Brun, A., Teixeira, C.V., Brezesinski, G., Al-Ali, F.; Banu, A., Tanaka, M. *Colloids and Surfaces A: Physicochem. Eng. Aspects* **2007**, *303*(1-2), 55-72.
- P49. **Molecular and supramolecular dynamics—a versatile tool for self-organization of polymeric membranes systems**, Cazacu, A., Pasc-Banu, A., Barboiu\*, M. *Macromol. Symp.* **2006**, *245-246*, 435-438.
- P50. **Hybrid supramolecular dynamic membranes as selective information transfer devices**, Cazacu, A., Michau, M., Arnal-Hérault, C., Meffre, A., Caraballo, R., Pasc, A., Barboiu\*, M. *Desalination* **2006**, *199*, 521-522.
- P51. **New cationic triblock amphiphiles: supramolecular organisation of a sugar-derived bolaamphiphile associated with dicarboxylates**, Soussan, E., Pasc-Banu, A., Consola, S., Labrot T., Perez, E., Blanzat, M., Oda, R., Vidal, C., Rico-Lattes\*, I. *ChemPhysChem* **2005**, *6*, 2492-2494.
- P52. **Monolayers of salen derivatives as catalytic planes for alkene oxidation in water**, Pasc-Banu, A., Sugisaki, C., Gharsa, T., Marty, J.D., Gascon, I., Krämer, M., Pozzi, G., Desbat, B., Quici, S., Rico-Lattes, I., Mingotaud\*, C. *Chem. Eur. J.* **2005**, *11*, 6032-9039.
- P53. **Spontaneous vesicles of single-chain sugar-based fluorocarbon surfactants**, Pasc-Banu, A., Blanzat, M., Belloni, M., Perez, E., Mingotaud, C., Rico-Lattes\*, I., Labrot T., Oda, R. *J. Fluor. Chem.* **2005**, *126*, 33-38.
- P54. **Epoxydation des alcènes mixtes fluorés/hydrogénés par le système RuCl<sub>3</sub>/Bipyridine/NaIO<sub>4</sub>. Rôle du ligand azoté**, Banu\*, A., Stan, R., Matondo, H., Perez, E., Rico-Lattes, I., Lattes, A. *CR Chimie, Académie des sciences* **2005**, *8*, 853-857.
- P55. **A catalytic Langmuir film as a model for heterogeneous and homogeneous catalytic processes**, Pasc-Banu, A., Sugisaki, C., Gharsa, T., Marty, J.D., Gascon, I., Pozzi, G., Quici, S., Rico-Lattes, I., Mingotaud\*, C. *Angew. Chem. Int. Ed. Engl.* **2004**, *43*, 6174-6177.

P56. **Microstructures in aqueous solutions of hybrid fluorocarbon/hydrocarbon catanionic surfactants**, Pasc-Banu, A., Stan, R., Blanzat, M., Perez, E., Rico-Lattes\*, I., Lattes, A., Labrot T., Oda, R. *Colloids and Surfaces A: Physicochem. Eng. Aspects* **2004**, 242 (1-3), 195-201.

P57. **Synthesis of fluorinated epoxides opening the way to new hybrid fluorocarbon-hydrocarbon surfactants**, Pasc-Banu, A., Petrov, O., Perez, E.; Rico-Lattes\*, I.; Lattes, A.; Pozzi, G.; Quici, S. *Synthetic Comm.* **2003**, 33 (24), 4321-4329.

## CHAPITRES DE LIVRE

CL1. **Stimuli-responsive nanostructured silica matrix targeting drug delivery applications**, Kim, S., Canilho, N., Pasc\*, A., *Biological and Pharmaceutical Applications of Nanomaterials*, CRC Press, Taylor & Francis Group, ISBN 9781482250169 publié le 13 juin **2015**).

## PROCEEDINGS

Proc1. **Bioinspired, microwave-absorbing, coating based on carbon hollow spheres**, A. Celzard, D. Bychanok, S. Li, A. Sanchez-Sanchez, G. Gorokhov, P. Kuzhir, F. Ogrin, A. Pasc, T. Ballweg, K.S. Mandel, A. Szczurek, V. Fierro, *Proceedings of the International Conference Carbon 2016 Conference, State College (PA, USA)* 10 – 15 Juillet **2016**

Proc2. **Green synthesis of ordered mesoporous carbons from tannin**, V. Fierro, F.L. Braghiroli, A. Celzard, A. Pasc, J. Parmentier. *Proceedings of the International Conference Carbon 2015 Conference, Dresde (Allemagne)* 12 – 17 Juillet **2015**

Proc3. **Molecular-Channels in Hybrid Supramolecular Membranes**, Cazacu, A.; Michau, M.; Arnal-Herault, C.; Pasc-Banu, A.; Meffre, A.; Barboiu, M. *Proceedings of 9<sup>th</sup> International Conference on Inorganic membranes*, **2006**, 209-213; ISBN 13: 978-82-14-04026-5, ISBN 10: 82-14-04026-5.

Proc4. **Selective Na<sup>+</sup>/K<sup>+</sup> transport in hierarchically nanostructured membranes**, Cazacu, A.; Pasc-Banu, A.; Meffre, A.; Barboiu, M. *Proceedings of 9<sup>th</sup> International Conference on Inorganic membranes*, **2006**, 214-217; ISBN 13: 978-82-14-04026-5, ISBN 10: 82-14-04026-5.

Proc5. **Catanionic surfactants derived from sugar: influence of structural modulations on the aggregation behaviour**, Belloni, M.; Pasc-Banu, A.; Blanzat, M.; Perez, E.; Rico-Lattes, I. *J. Com. Esp. Det.* **2004**, 34, 349-356.