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Centre de recherche sur les matériaux auto-assemblés  
Centre for self-assembled chemical structures

Volume 32

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## 1) Journée annuelle de la recherche du FRQNT FRQNT Annual Research Day

**Le jeudi 9** Février, à l'université Laval, des chercheurs de partout du Québec et la direction scientifique du FRQNT et son personnel se rencontrent pour une journée de la recherche sous la thématique des matériaux. Un des objectifs de cette rencontre annuelle est d'illustrer la diversité, l'interdisciplinarité et la multidisciplinarité des travaux de recherche financés par le FRQNT. On sait bien que notre Centre fait partie de la recherche sur les matériaux. C'est pour cela que Theo van de Ven, le directeur du CRMAA, a été invité pour faire une courte présentation de 15 minutes. Pour voir d'autres invités de la journée veuillez consulter le [programme préliminaire](#).

**Thursday**, February 9th, at the Université Laval, researchers from across Quebec and the scientific direction of the FQRNT and its staff will meet for a research day under the theme of materials. One of the objectives of this annual meeting is to illustrate the diversity, the interdisciplinary and multidisciplinary aspects of research funded by the FQRNT. We know that our Centre is part of the materials research. That is why Theo van de Ven, CSACS director, was invited to make a short 15 minutes presentation. To see the other guests of the day, please check the [preliminary program](#).

### *Nouvelle désignation du Fonds de recherche du Québec – Nature et technologies*

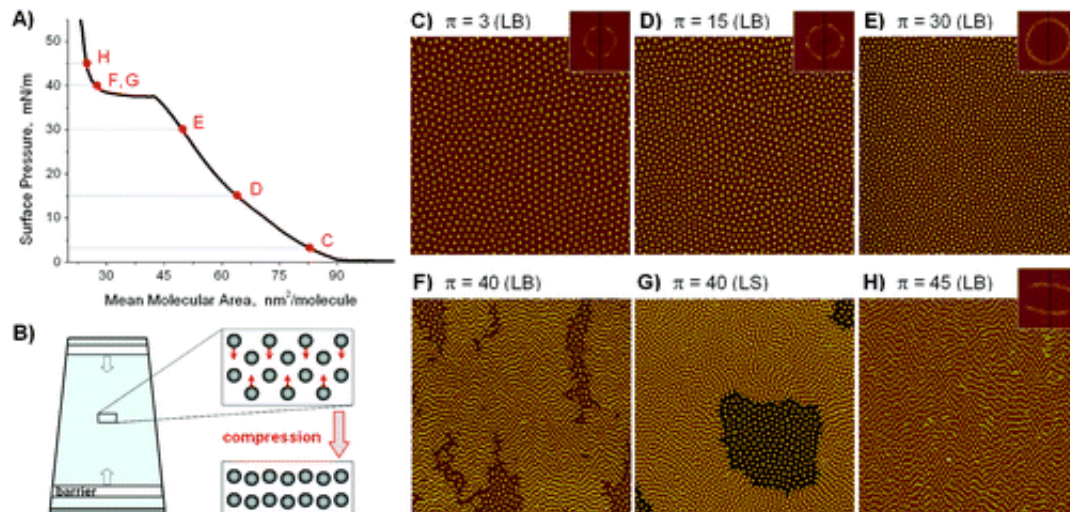
**Le 1er juillet 2011**, date de l'entrée en vigueur de la Loi 130, le Fonds québécois de la recherche sur la nature et les technologies est officiellement devenu le Fonds de recherche du Québec – Nature et technologies et le nouvel acronyme est dorénavant **FRQNT**.

### *New designation for the Research Fund of Quebec - Nature and Technology*

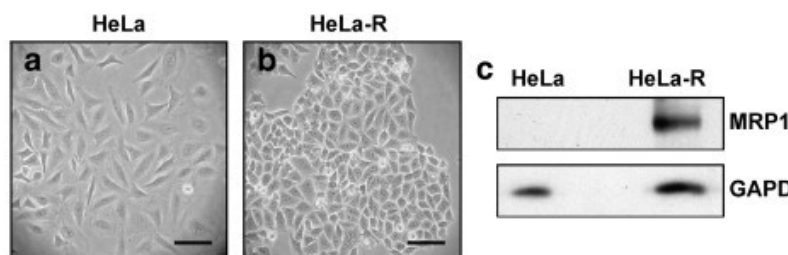
**On July 1st 2011**, date of entry into force of Bill 130, the Quebec Fund for Research on Nature and Technology officially became the Research Fund Quebec - Nature and Technology and the new acronym is now **FRQNT**.

## 2)

## Publications

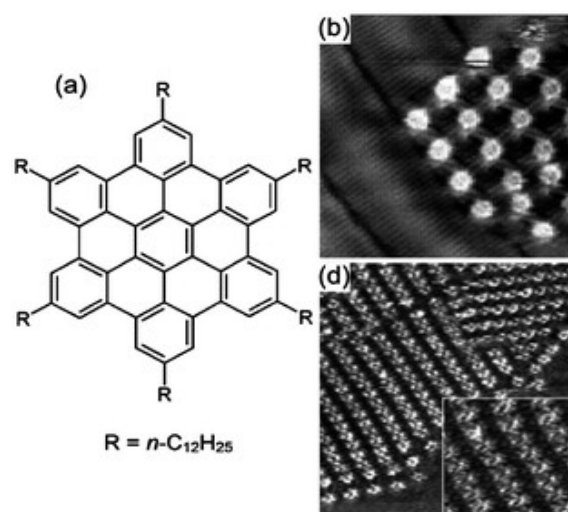


Perepichka Iryna I; Borozenko Kateryna; **Badia Antonella**; **Bazuin C** Geraldine; [Pressure-induced order transition in nanodot-forming diblock copolymers at the air/water interface](#). *J. Am. Chem. Soc.*, 2011, 133 (49), pp 19702–19705.



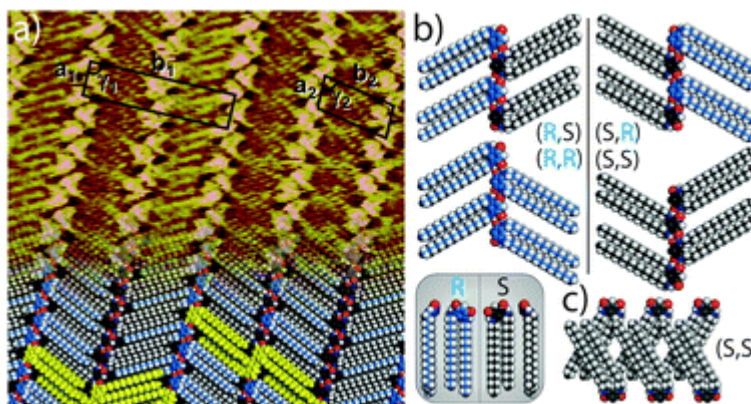
Kuss, Sabine;  
Cornut, Renaud;  
Beaulieu, Isabelle; Mezour, Mohamed A.;  
Annabi, Bor-

hane; **Mauzeroll, Janine**; [Assessing multidrug resistance protein 1-mediated function in cancer cell multidrug resistance by scanning electrochemical microscopy and flow cytometry](#). *Bioelectrochemistry*, Volume 82, Issue 1, 2011, Pages 29-37.



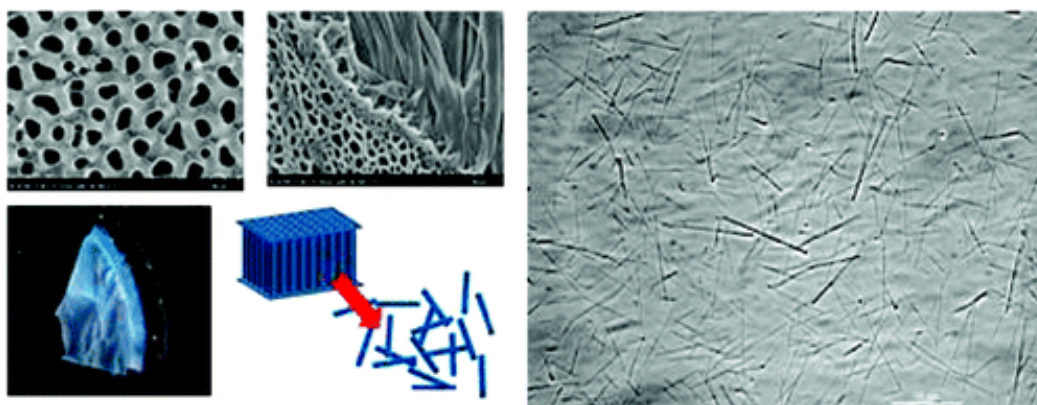
Gutzler, Rico; Cardenas, Luis; **Rossi, Federico**, [Kinetics and thermodynamics in surface-confined molecular self-assembly](#). *Chemical Science*, Volume 2 Issue 12, pp 2290-2300.

## Publications con't.

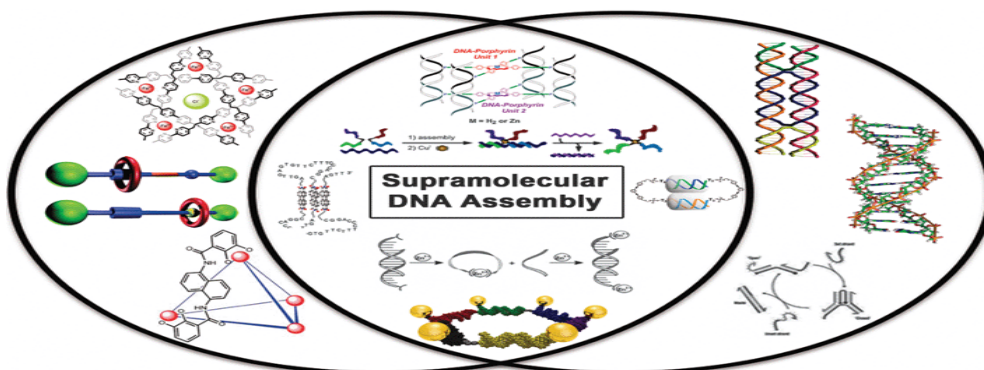


Fang, Yuan; Nguyen, Phuong; Ivasenko, Oleksandr; Aviles, Maria Paola; Kebede, Eskedar; Askari, Mohammad S.; Ottenwaelder, Xavier; Zienner, Ulrich; Siri, Olivier; **Cuccia**, Louis A; [Charge-assisted hydrogen bond-directed self-assembly of an amphiphilic zwitterionic quinonemonoimine at the liquid-solid interface](#). *Chemical Communications* (Cambridge, United Kingdom), Volume 47, Issue 40, pp 11255-11257.

[hydrogen bond-directed self-assembly of an amphiphilic zwitterionic quinonemonoimine at the liquid-solid interface](#). *Chemical Communications* (Cambridge, United Kingdom), Volume 47, Issue 40, pp 11255-11257.

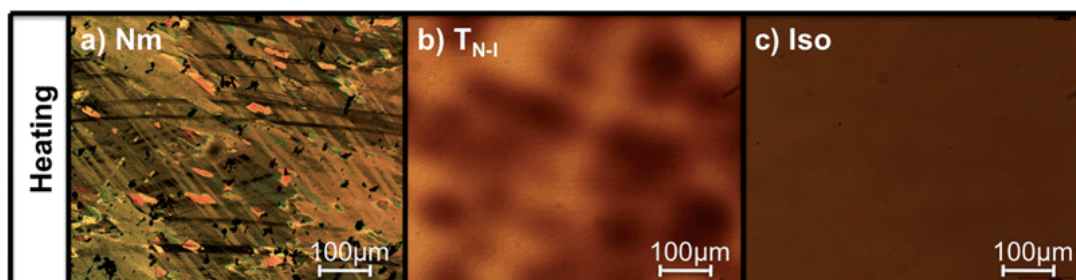
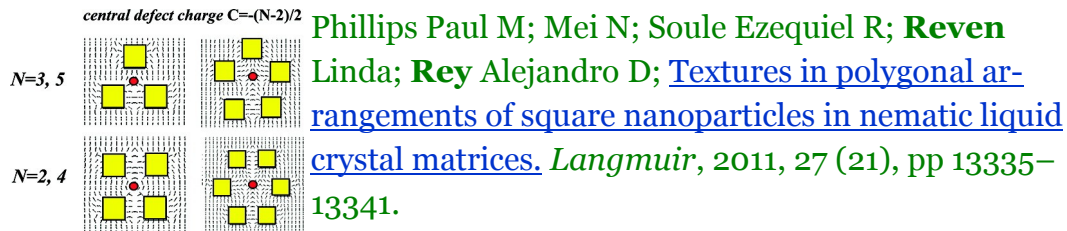


Huang Bin; **van de Ven** Theo G M; **Hill** Reghan J; [Preparation and characterization of multilayered polymer nanotube dispersions](#). *Langmuir*, 2011, 27 (18), pp 11416-11429.

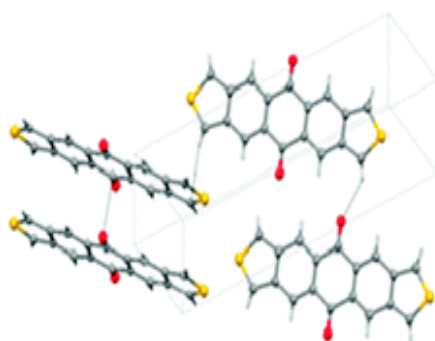


McLaughlin, Christopher K.; Hamblin, Graham D.; **Sleiman**, Hanadi F.; [Supramolecular DNA assembly](#). *Chem. Soc. Rev.*, 2011, 40, pp 5647-5656.

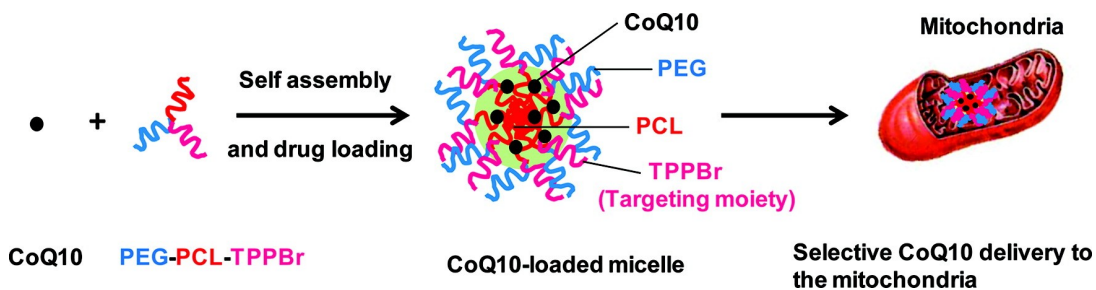
## Publications con't.



Milette, Jonathan; Cowling, Stephen J.; Toader, Violeta; Lavigne, Cyrille; Saez, Isabel M.; Bruce **Lennox**, R.; Goodby, John W.; **Reven**, Linda; [Reversible long range network formation in gold nanoparticle - nematic liquid crystal composites.](#) *Soft Matter*, 2012, 8, 173-179.



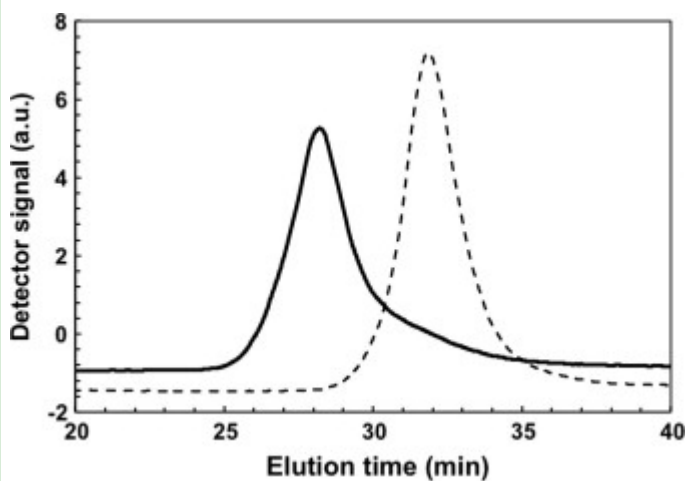
Djukic, Brandon; **Perepichka**, Dmitrii F.; [Non-classical heteroacenes: synthesis and properties of anthra\[2,3-c:6,7-c'\]dithiophene derivatives.](#) *Chem. Commun.*, 2011, 47, pp 12619-12621



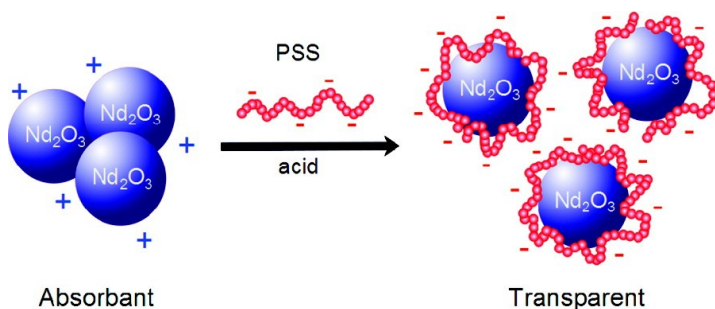
Sharma, Anjali; Soliman, Ghareb M.; Al-Hajaj, Noura; Sharma, Rishi; Maysinger, Dusica; **Kakkar**, Ashok; [Design and Evaluation of Multifunctional Nanocarriers for Selective Delivery of Coenzyme Q10 to Mitochondria.](#) *Biomacromolecules*, 2012, 13 (1), pp 239–252.

## Publications con't.

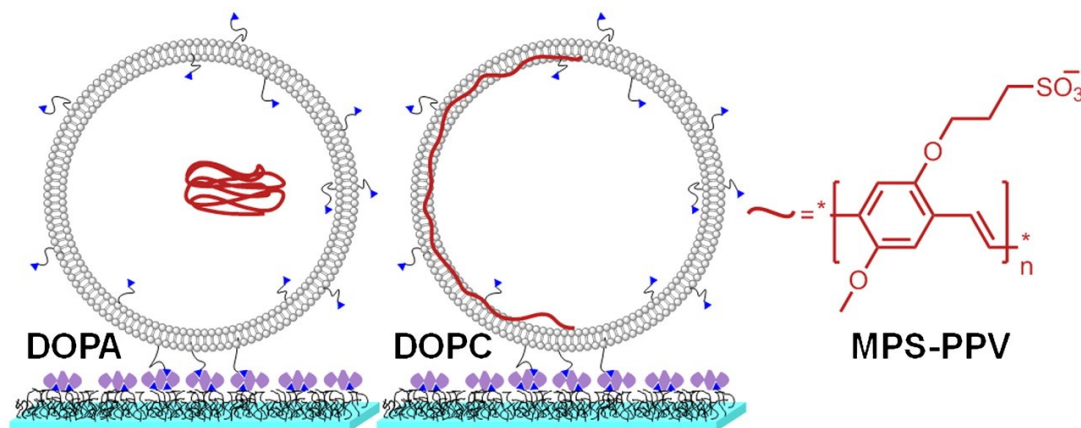
Tiera, Marcio J.; Shi, Qin; **Winnik**, Françoise M.; Fernandes, Julio C.; [Poly-cation-based gene therapy: current knowledge and new perspectives](#). *Current Gene Therapy*, Volume 11, Number 4, August 2011, pp. 288-306(19).



**Maric**, Milan; Lessard, Benoit H.; Consolante, Valérie; Ling, Edwin Jee Yang; [Incorporating primary amine pendant groups into copolymers via nitroxide mediated polymerization](#). *Reactive and Functional Polymers*, Volume 71, Issue 12, December 2011, pp 1137-1147.



[Dorris Annie; Sicard Clemence; Chen Mark C; McDonald Arthur B; Barrett Christopher J., Stabilization of neodymium oxide nanoparticles via soft adsorption of charged polymers](#). *ACS Appl. Mater. Interfaces*, 2011, 3 (9), pp 3357-3365.



Karam, Pierre; Ngo, An Thien; Rouiller, Isabelle; **Cosa**, Gonzalo, [Unraveling electronic energy transfer in single conjugated polyelectrolytes encapsulated in lipid vesicles](#). *PNAS* October 12, 2010 vol. 107 no. 41, pp 17480-17485.

## Publications con't.



Inside Cover:

Tshitundu Tshibaka, Sophie Bishop, Ivan Ulliel Roche, Stéphane Dufresne, William D. Lubell and William G.

**Skene; Conjugated 4-Methoxybipyrrole Thiophene Azomethines: Synthesis, Opto-Electronic Properties, and Crystallographic Characterization, *Chem. Eur. J.* 39/2011 p. 10786.**

### 3) Horaire CHEM 634 Schedule

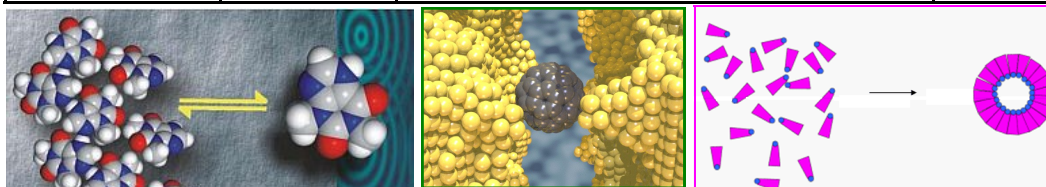
**Si vous voulez** assister aux séminaires et que vous n'êtes pas inscrit au cours, vous devez réserver votre place en nous envoyant un courriel au [csacs.chemistry@mcgill.ca](mailto:csacs.chemistry@mcgill.ca). Inscrivez les dates qui correspondent au(x) sujet(s) choisi(s), puisque les places sont limitées.

Voici la liste des conférenciers pour le mois de Janvier. Pour voir la liste complète, visiter notre site internet.

**For those who** are not register for credits, and would like to attend the lectures, you must send an email to [csacs.chemistry@mcgill.ca](mailto:csacs.chemistry@mcgill.ca) to reserve your seat. Please indicate the date (s).

Here is the list of the speakers for January. To see the complete list, please visit our website.

Conférencier / Speaker	Institution	Sujet / Subject	Date
Tomislav Friscic	McGill	Solid state synthesis of molecular materials	Jan. 13
Amy Blum	McGill	Molecular Electronics and SPM	Jan. 20
Bruce Lennox	McGill	Self-Assembled Monolayers	Jan. 27



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