

As part of our "Nano & Micro-Systems for Cell Biology" seminar series,  
we are delighted to invite you to attend this seminar to be given in english by :

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Institut Charles Sadron  
Precision Macromolecular Chemistry Group

Thursday 12 Juin 2014  
11am



## Sequence-controlled Polymers: Recent Progress and Promise

Amphithéâtre Gosse - Bât C  
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## Sequence-controlled Polymers: Recent Progress and Promise

Synthetic polymers do not exhibit controlled sequences of monomers as biological macromolecules do (Figure 1). However, ordered comonomer sequences could open interesting technological avenues in synthetic polymer science.<sup>[1-4]</sup> Surprisingly, very little research has been carried out during the last part of the 20th century for developing sequence-specific polymerization methods. Yet, for about five years, a renewed interest in the subject has emerged. This growing field of research will be described in my presentation.

Recent sequence-controlled approaches developed in our laboratory will be discussed.<sup>[5-7]</sup> Moreover, the advantages of the formed sequence-controlled polymers will be highlighted. For instance, the preparation of complex macromolecular structures such as 1D macromolecular arrays or folded polymer origamis will be presented.<sup>[8]</sup>

Ultimately, challenges and future directions in the field will be critically analyzed.

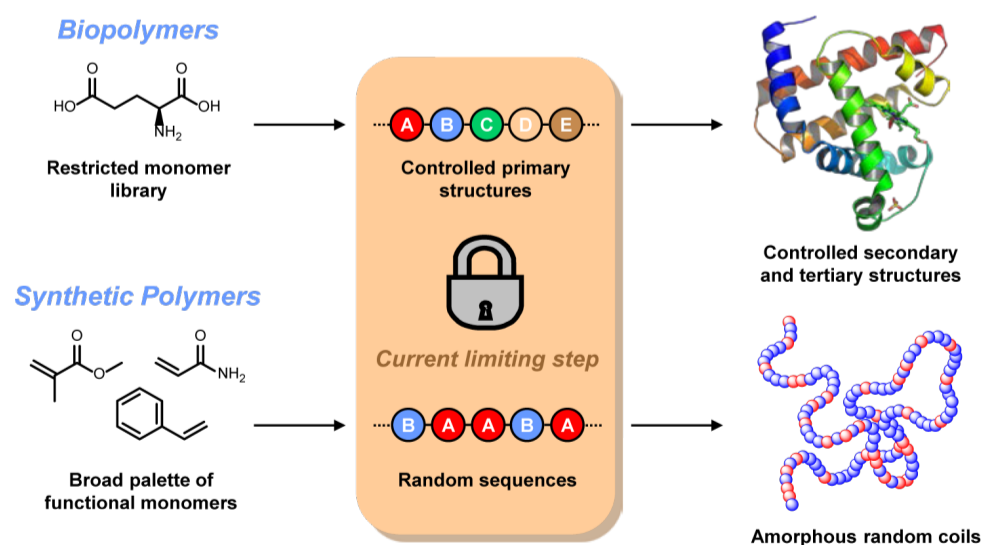


Figure 1. Sequence-controlled macromolecules: a new level of complexity in synthetic polymer science.

### References

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