



## The McGill-Montreal Chapter

Sigma Xi :: The Scientific Research Society ::



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**PUBLIC LECTURE**

**When:**

**Monday**

**31<sup>st</sup> March 2008**

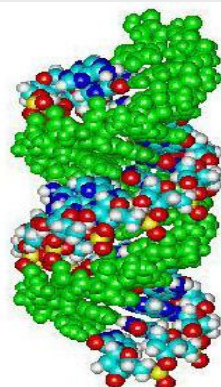
**6 P.M.**

**Where:**

McGill University  
Otto Maass Chemistry  
Building  
**Room 10**

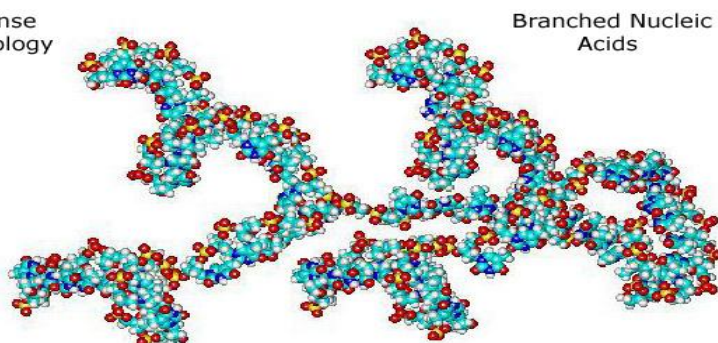
## Gene Silencing through the use of synthetic DNA and RNA: the next wave of 'magic bullets'?

This lecture will describe our efforts to develop DNA based therapeutic agents by exploiting the ability of synthetic oligonucleotides to *intercept* and disable aberrant RNA and proteins within a cell. In doing so, I will describe past and current advances in DNA/RNA synthesis and antiretroviral (HIV) therapy. I will also cover exciting new technologies such as RNA *interference*, *aptamer* and *antisense* therapies... and make sense out of them!



Antisense  
Technology

Mangos et al. *J.Am.Chem.Soc.* **125**: 654 (2003)



Branched Nucleic  
Acids

Hudson et al. *J.Am.Chem.Soc.* **115**: 2119 (1993)



english

français

**Council Meeting**

**4:30 P.M.**

**Member Reception**

**5:30 P.M.**