

SEMINARIO

DNA-based nanosystems

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PROGRAMA

1. Molecular Computing with Deoxyribozymes.
2. Behavior-based approach to molecular robotics.
3. Artificial molecular systems for pattern-recognition.

Bibliografía

Macdonald J, Stefanovic D, Stojanovic MN. DNA computers for work and play. **Sci Am.** 2008 Nov;299(5):84-91.

Macdonald J, Li Y, Sutovic M, Lederman H, Pendri K, Lu W, Andrews BL, Stefanovic D, Stojanovic MN. Medium scale integration of molecular logic gates in an automaton. **Nano Lett.** 2006 Nov;6(11):2598-603.

Margolin AA, Stojanovic MN. Boolean calculations made easy (for ribozymes). **Nat Biotechnol.** 2005 Nov;23(11):1374-6.

Stojanovic MN, Stefanovic D. A deoxyribozyme-based molecular automaton. **Nat Biotechnol.** 2003 Sep;21(9):1069-74.