Are DNA-based Electronics Next?

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NETANYA, ISRAEL —A host of international universities have teamed on a \$3-million effort to develop DNA-based self-organizing molecular electronics.

With support from the EU, **Tel-Aviv University**, **Hebrew University of Jerusalem**, **Regensbur g University**, **Madrid University** and the

Lausanne School of Technology

share a goal to create a prototype electronic component based on a single DNA molecule, and achieve DNA-based nanodevices based on the group's previous realization of nanowires.

The project's cost is estimated at about \$3 million and is scheduled to end in April 2009.

" We expect to realize a device-wire with a controlled non-linear response, either bi-stability or negative differential resistance, at the end of the project, " the researchers said, according to published reports.

The DNA-based nanoelectronic devices would be about 1000 times smaller than existing electronics, the report said.