

## **CMOS electronics probe inside biological cellular networks**

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**Bio:** Donhee Ham is Gordon McKay Professor of Applied Physics & EE at Harvard, where he has been since 2002. He earned a B.S. degree in physics from Seoul National University in 1996. Following a 1.5-year military service in the Korea Army, he went to Caltech for graduate training in physics. There he worked in LIGO under Professor Barry Barish while in physics, and later obtained a Ph.D. in EE in 2002 winning the Charles Wilts Prize awarded for the best thesis in EE for his work on the statistical physics of electrical circuits. The intellectual focus of his current work (<http://ham.seas.harvard.edu>) is on: 1) quantum and low-dimensional devices; 2) scalable nano-bio interfaces for neurotechnology; 3) scalable NMR-based biomolecular spectroscopy; and 4) integrated circuits design (RF, analog, & mixed-signal).