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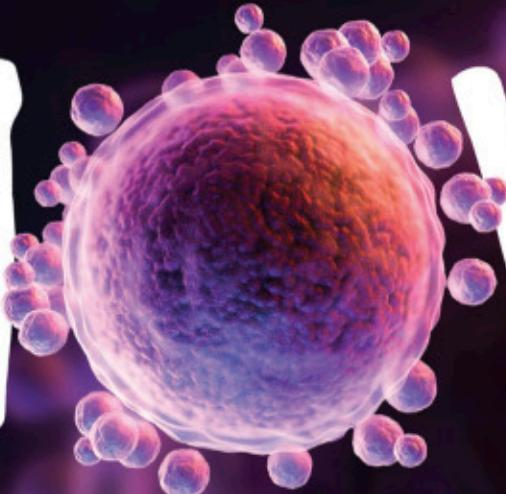
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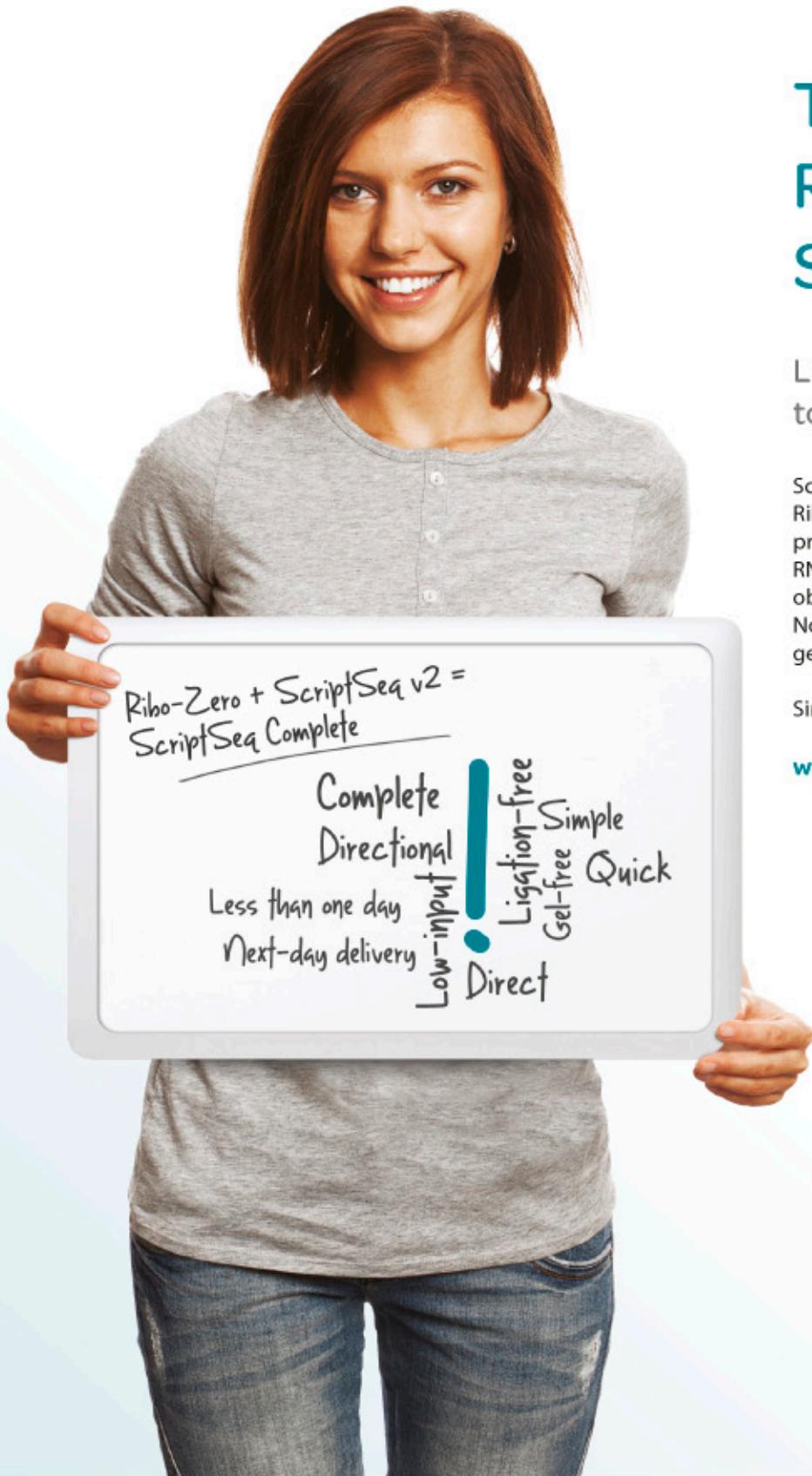


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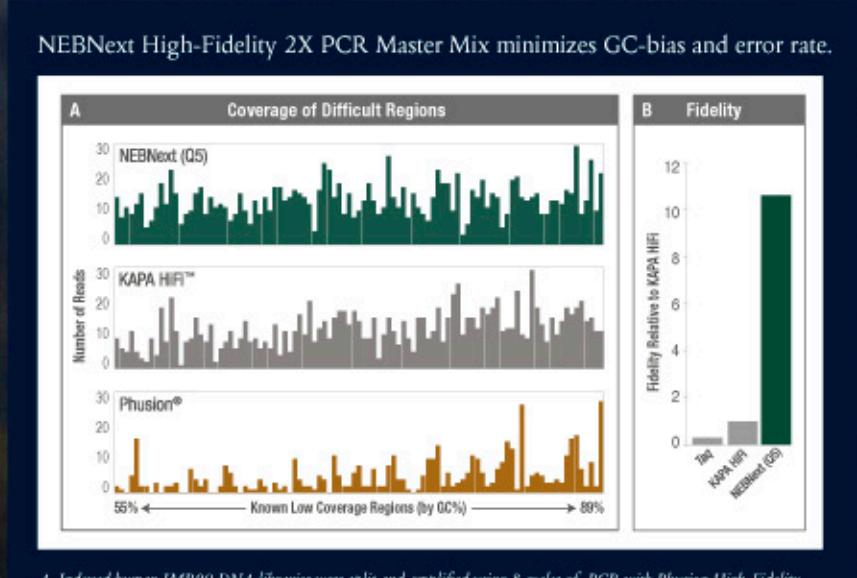
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*A. Indexed human IMR90 DNA libraries were split and amplified using 8 cycles of PCR with Phusion High-Fidelity PCR Master Mix with HF Buffer, KAPA HiFi HotStart ReadyMix or NEBNext High-Fidelity 2X PCR Master Mix, followed by sequencing on an Illumina HiSeq[™] 2000. 180 million reads were randomly extracted from each data set and the number of reads overlapping distinct low coverage regions of the human genome (Aird et al. *Genome Biology* 2011) are shown for each library.*

B. Fidelity measurements of Tag DNA Polymerase (in Standard Tag Buffer), KAPA HiFi HotStart ReadyMix and NEBNext High-Fidelity 2X PCR Master Mix were measured, side-by-side, in a PCR-based mutation screening assay using a lacZ method. Values ($n \geq 2$) are expressed relative to KAPA HiFi HotStart ReadyMix.



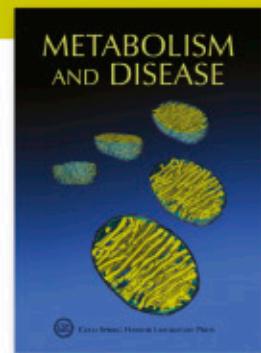


METABOLISM AND DISEASE

Cold Spring Harbor Symposia on Quantitative Biology LXXVI

Edited by Terri Grodzicker, *Cold Spring Harbor Laboratory*, Bruce Stillman, *Cold Spring Harbor Laboratory*, and David Stewart, *Cold Spring Harbor Laboratory*

This volume is based on presentations by world-renowned investigators who gathered at the 76th Cold Spring Harbor Symposium on Quantitative Biology. It reviews the latest advances in our understanding of metabolism and disease, including research on fat, exercise and rhythms; insulin resistance and sensitivity; lifespan, aging and cancer; regulation and dysregulation of metabolism; signaling and gene regulation; environment and sensing; metabolic reprogramming; clocks and intermediary metabolism; metabolism and cancer; and autophagy, timing and small RNAs.



2012, 422 pp., illus., index

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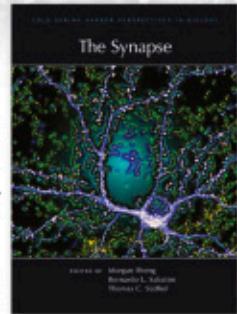
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The Synapse

Edited by Morgan Sheng, *Genentech Research Group*; Bernardo Sabatini, *Harvard Medical School*, and Thomas C. Südhof, *Stanford University School of Medicine*



Synapses are specialized cell contacts where two neurons communicate. Neurotransmitter molecules released from the presynaptic terminal of one neuron diffuse to the postsynaptic terminal on the other, binding to receptors that lead to propagation or modulation of the signal.

Written and edited by experts in the field, this collection from *Cold Spring Harbor Perspectives in Biology* examines the highly complex structures and functions of the pre- and postsynaptic regions, as well as the trafficking mechanisms that transport vesicles containing neurotransmitters. The contributors discuss how long-term potentiation (LTP) and long-term depression (LTD) of synaptic transmission form the basis of learning and memory. The roles of calcium signaling in regulating synaptic and cell function and techniques to study such signaling events are also covered.

This volume also includes discussions of synaptic dysfunction in disorders such as autism and Alzheimer's disease. It is an indispensable reference for neurobiologists, cell and developmental biologists, and anyone wishing to understand how the basic building blocks of the brain are put together and communicate.

2012, 397 pp., illus., index

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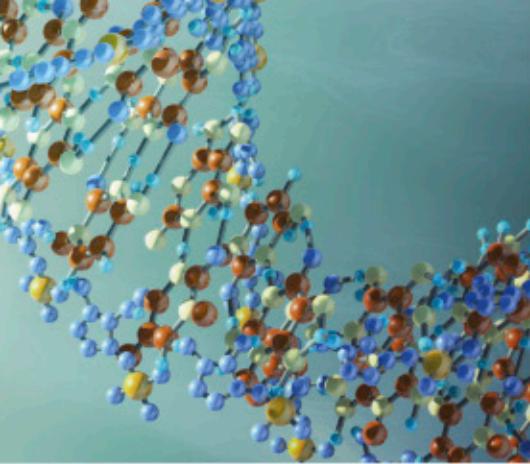
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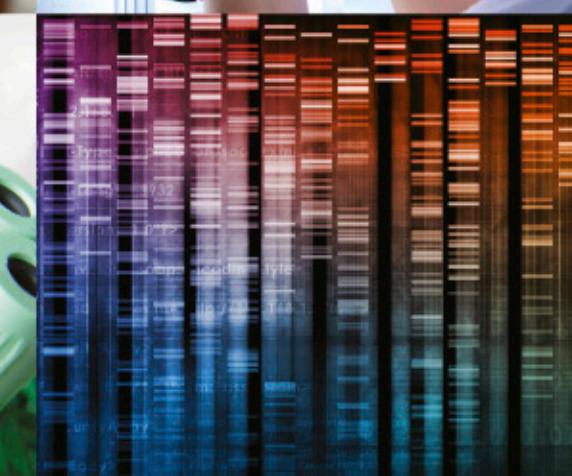
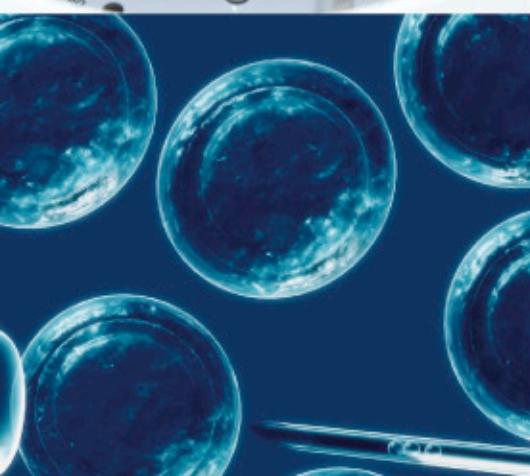
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