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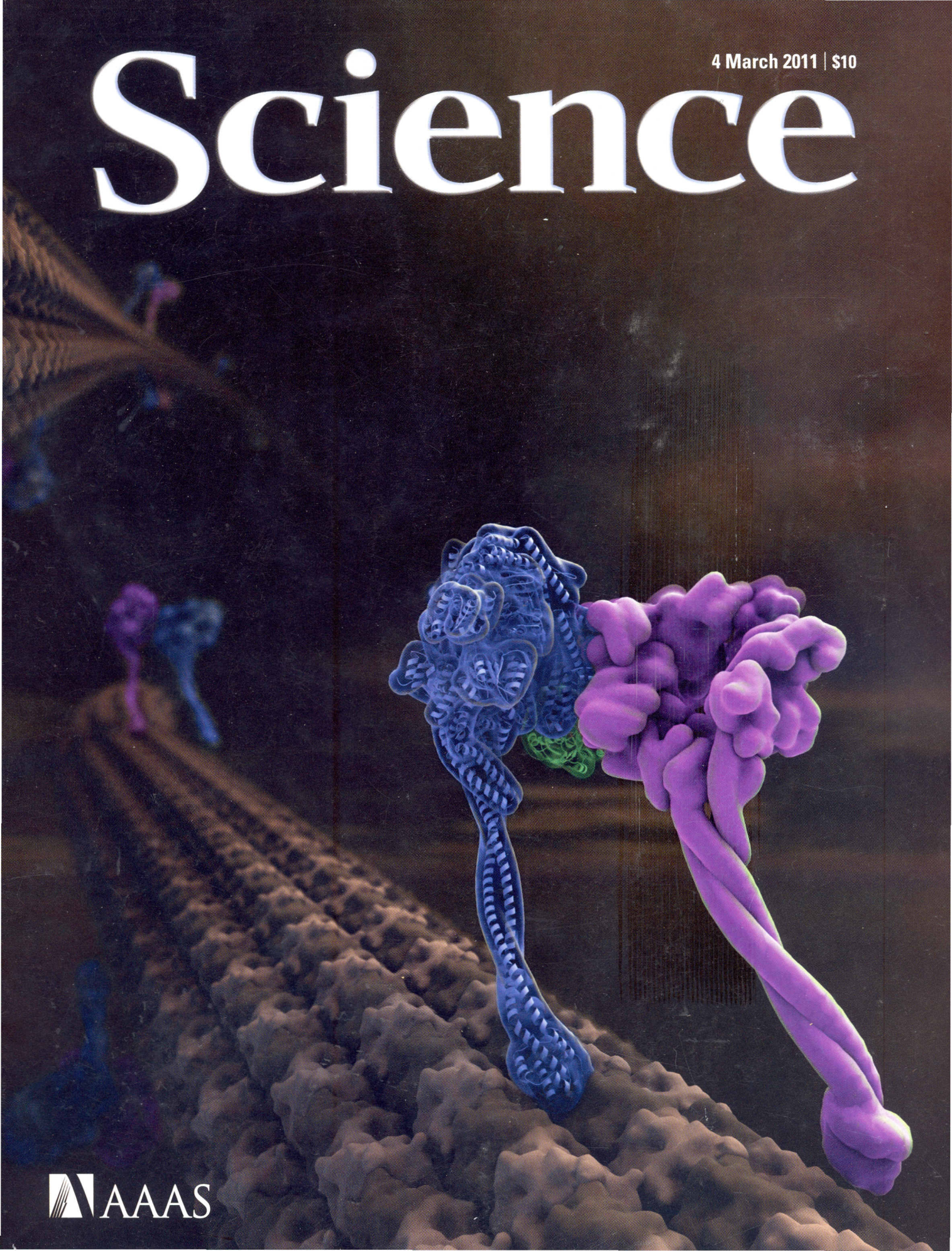
Science



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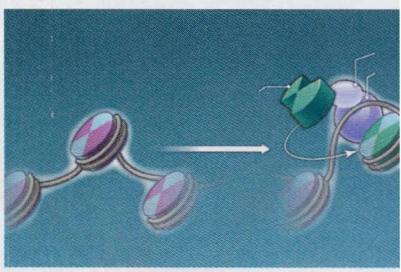

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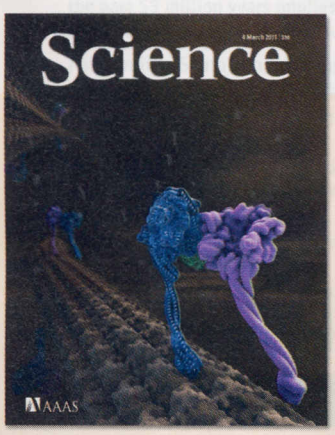

COVER

Artistic rendering of dynein motor proteins moving along microtubules, based on a crystal structure reported by Carter *et al.* on p. 1159. This study reveals the architecture of the molecular machine that powers the beating of cilia and intracellular transport and provides insight into the mechanism by which energy from adenosine triphosphate hydrolysis is converted into motion.

Image: Graham Johnson, The Scripps Research Institute and grahamj.com

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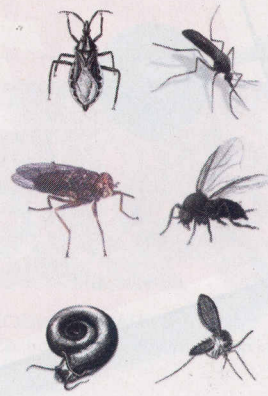

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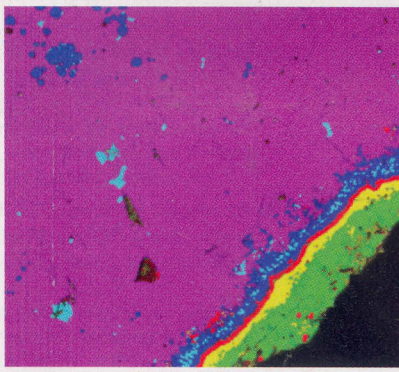

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U. Schenk et al.
Purinergic signaling during inflammation converts immunosuppressive $CD4^+$ T cells into proinflammatory ones.

PERSPECTIVE: Astrocytes Shape Axonal Signaling
D. Debanne and S. Rama
Action potential waveform can be altered by astrocyte-mediated activation of neuronal glutamate receptors.

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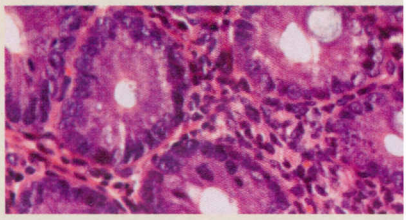
D. A. Fryburg and M. T. Vassileva
The Atherosclerosis Working Group proposes the creation of an in silico model to identify biomarker panels for use in clinical trials.



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