

task might include an increase in the time attached to actin during the ATPase cycle, and an efficient use of the time spent attached. It seems likely that BBMI may have evolved a larger swing and a longer tail to achieve these goals. These ideas underscore the most important implication of the results presented here: the generation of myosins for functional niches is the result of variation in the structural consequences, as well as the rates, of individual biochemical steps in the ATPase cycle. □

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1. Matsudaira, P. T. & Burgess, D. R. *J. Cell Biol.* **83**, 667–673 (1979).
2. Howe, C. L. & Mooseker, M. S. *J. Cell Biol.* **97**, 974–985 (1983).
3. Garcia, A. et al. *J. Cell Biol.* **109**, 2895–2903 (1989).
4. Collins, K., Sellers, J. R. & Matsudaira, P. *J. Cell Biol.* **110**, 1137–1147 (1990).
5. Wolenski, J. S. et al. *J. Cell Biol.* **122**, 613–621 (1993).
6. Whittaker, M. et al. *Nature* **378**, 748–751 (1995).
7. Dubochet, J. et al. *Q. Rev. Biophys.* **21**, 129–228 (1988).
8. DeRosier, D. J. & Moore, P. B. *J. molec. Biol.* **52**, 355–369 (1970).
9. Whittaker, M., Carragher, B. O. & Milligan, R. A. *Ultramicroscopy* **58**, 245–259 (1995).
10. Cooke, R. *CRC Crit. Rev. Biochem.* **21**, 53–118 (1986).
11. Reedy, M. C., Reedy, M. K. & Tregear, R. T. *J. molec. Biol.* **204**, 357–383 (1988).
12. Rayment, I. et al. *Science* **261**, 58–65 (1993).
13. Fisher, A. J. et al. *Biophys. J.* **68**, 19s–28s (1995).
14. Eisenberg, E. & Greene, L. E. *Rev. Physiol.* **42**, 293–309 (1980).
15. Goody, R. S. & Holmes, K. C. *Biochim. biophys. Acta* **726**, 13–39 (1983).
16. Eisenberg, E. & Hill, T. L. *Science* **227**, 999–1006 (1985).
17. Brenner, B. A. *Rev. Physiol.* **49**, 655–672 (1987).
18. Geeves, M. A. *Phil. Trans. R. Soc. Lond. B* **336**, 63–71 (1992).
19. Hill, T. L. *Prog. Biophys. molec. Biol.* **28**, 267–340 (1974).
20. Drenckhahn, D. & Dermietzel, R. *J. Cell Biol.* **107**, 1037–1048 (1988).
21. Fath, K. & Burgess, D. R. *J. Cell Biol.* **120**, 117–127 (1993).
22. Spudich, J. A. & Watt, S. *J. biol. Chem.* **246**, 4866–4871 (1971).
23. Hessler, D. et al. *Microscopy* **22**, 73–82 (1992).

24. Rayment, I. et al. *Science* **261**, 50–58 (1993).
25. Pollard, T. D., Doberstein, S. K. & Zot, H. G. *Rev. Physiol.* **53**, 653–681 (1991).
26. Jones, T. A., Zou, J. Y., Cowan, S. W. & Kjeldgaard, M. *Acta crystallogr.* **A47**, 110–119 (1991).

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ERRATUM

Multiple essential functions of neuregulin in development

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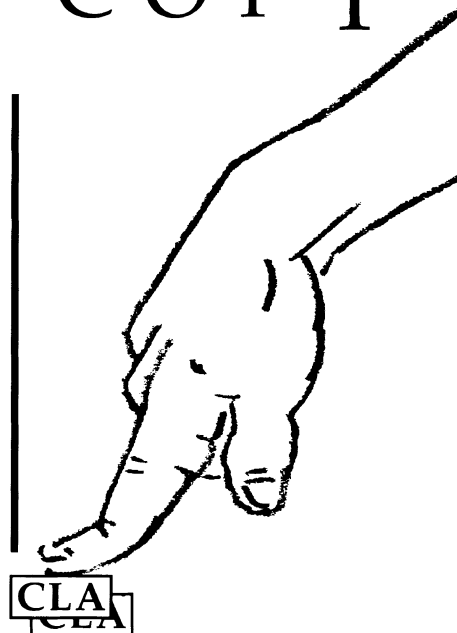
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