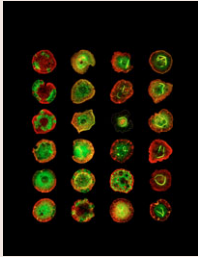


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**Cover:** *Drosophila* S2 cells transfected with various human coronin-1B-GFP expression constructs (green) stained with Alexa Fluor-568-coupled phalloidin (red). Overexpression of wild-type coronin 1B induces the formation of F-actin cables, whereas mutants that lack F-actin binding do not induce cables. The cell in the third column, third row was treated with latrunculin B to induce actin depolymerization. Coronin-1B-induced actin cables are resistant to this drug, suggesting that they are protected from depolymerization. See article by L. Cai et al. (pp. 1779-1790).

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## Research Articles

- 1723 **Src-dependent phosphorylation of  $\beta$ 2-adaptin dissociates the  $\beta$ -arrestin-AP-2 complex.** Fessart, D., Simaan, M., Zimmerman, B., Comeau, J., Hamdan, F. F., Wiseman, P. W., Bouvier, M. and Laporte, S. A.
- 1733 **Characterization of *Spo11*-dependent and independent phospho-H2AX foci during meiotic prophase I in the male mouse.** Chicheportiche, A., Bernardino-Sgherri, J., de Massy, B. and Dutrillaux, B.
- 1743 **Post-translational integration of tail-anchored proteins is facilitated by defined molecular chaperones.** Abell, B. M., Rabu, C., Leznicki, P., Young, J. C. and High, S.
- 1752 **Phosphoinositide 3-kinase signalling regulates early development and developmental haemopoiesis.** Bone, H. K. and Welham, M. J.
- 1763 **A novel mechanism controls the  $\text{Ca}^{2+}$  oscillations triggered by activation of ascidian eggs and has an absolute requirement for Cdk1 activity.** Levasseur, M., Carroll, M., Jones, K. T. and McDougall, A.
- 1772 **Cortical centralspindlin and G $\alpha$  have parallel roles in furrow initiation in early *C. elegans* embryos.** Verbrugghe, K. J. C. and White, J. G.
- 1779 **F-actin binding is essential for coronin 1B function in vivo.** Cai, L., Makhov, A. M. and Bear, J. E.
- 1791 **Clonally amplified cardiac stem cells are regulated by Sca-1 signaling for efficient cardiovascular regeneration.** Tateishi, K., Ashihara, E., Takehara, N., Nomura, T., Honsho, S., Nakagami, T., Morikawa, S., Takahashi, T., Ueyama, T., Matsubara, H. and Oh, H.
- 1801 **Force activates smooth muscle  $\alpha$ -actin promoter activity through the Rho signaling pathway.** Zhao, X.-H., Laschinger, C., Arora, P., Szász, K., Kapus, A. and McCulloch, C. A.
- 1810 **Contextual role for angiopoietins and TGF $\beta$ 1 in blood vessel stabilization.** Ramsauer, M. and D'Amore, P. A.
- 1818 **EGF induces macropinocytosis and SNX1-modulated recycling of E-cadherin.** Bryant, D. M., Kerr, M. C., Hammond, L. A., Joseph, S. R., Mostov, K. E., Teasdale, R. D. and Stow, J. L.

## Cell Science at a Glance

1703 **Fluorescence microscopy – avoiding the pitfalls.** Brown, C. M.

## Commentaries

1707 **A cell biological perspective on mitochondrial dysfunction in Parkinson disease and other neurodegenerative diseases.**

Mandemakers, W., Morais, V. A. and De Strooper, B.

1717 **Cooperative mechanisms of mitotic spindle formation.**

O'Connell, C. B. and Khodjakov, A. L.