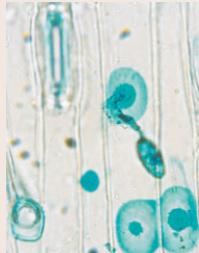


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Cover: Redox-active ferric iron (Fe^{3+}) is targeted to the fortified cell-wall apposition of a wheat epidermal cell in response to attempted penetration by the fungal pathogen *Blumeria graminis*. See article by Liu et al. (pp. 596-605).

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Research Articles

- 555 **Rac1 and Rac3 have opposing functions in cell adhesion and differentiation of neuronal cells.** Hajdo-Milašinović, A., Ellenbroek, S. I. J., van Es, S., van der Vaart, B. and Collard, J. G.
- 567 **IQGAP3, a novel effector of Rac1 and Cdc42, regulates neurite outgrowth.** Wang, S., Watanabe, T., Noritake, J., Fukata, M., Yoshimura, T., Itoh, N., Harada, T., Nakagawa, M., Matsuura, Y., Arimura, N. and Kaibuchi, K.
- 578 **Anti-NR1 N-terminal-domain vaccination unmasks the crucial action of tPA on NMDA-receptor-mediated toxicity and spatial memory.** Benchenane, K., Castel, H., Bouloard, M., Bluthé, R., Fernandez-Monreal, M., Roussel, B. D., Lopez-Atalaya, J. P., Butt-Gueulle, S., Agin, V., Maubert, E., Dantzer, R., Touzani, O., Dauphin, F., Vivien, D. and Ali, C.
- 586 **Wnt-5a induces Dishevelled phosphorylation and dopaminergic differentiation via a CK1-dependent mechanism.** Bryja, V., Schulte, G., Rawal, N., Grahn, A. and Arenas, E.
- 596 **Targeted alterations in iron homeostasis underlie plant defense responses.** Liu, G., Greenshields, D. L., Sammynaiken, R., Hirji, R. N., Selvaraj, G. and Wei, Y.
- 606 **Evidence for protein 4.1B acting as a metastasis suppressor.** Cavanna, T., Pokorná, E., Vesely, P., Gray, C. and Zicha, D.
- 617 **Synaptotagmins I and IX function redundantly in regulated exocytosis but not endocytosis in PC12 cells.** Lynch, K. L. and Martin, T. F. J.
- 628 **The intraflagellar transport component IFT88/polaris is a centrosomal protein regulating G1-S transition in non-ciliated cells.** Robert, A., Margall-Ducos, G., Guidotti, J.-E., Brégerie, O., Celati, C., Bréchot, C. and Desdouets, C.
- 638 **hCAF1, a new regulator of PRMT1-dependent arginine methylation.** Robin-Lespinasse, Y., Sentis, S., Kolytcheff, C., Rostan, M.-C., Corbo, L. and Le Romancer, M.
- 648 **Ribophorin I acts as a substrate-specific facilitator of N-glycosylation.** Wilson, C. M. and High, S.

Commentaries

- 531 **Neuronal and non-neuronal functions of the AP-3 sorting machinery.** Newell-Litwa, K., Seong, E., Burmeister, M. and Faundez, V.
- 543 **Decoding ubiquitin sorting signals for clathrin-dependent endocytosis by CLASPs.** Traub, L. M. and Lukacs, G. L.

- 658 **IQGAP1 regulates cell motility by linking growth factor signaling to actin assembly.** Benseñor, L. B., Kan, H.-M., Wang, N., Wallrabe, H., Davidson, L. A., Cai, Y., Schafer, D. A. and Bloom, G. S.
- 670 **IL-13 mediates the recruitment of reserve cells for fusion during IGF-1-induced hypertrophy of human myotubes.** Jacquemin, V., Butler-Browne, G. S., Furling, D. and Mouly, V.
- 682 **Characterization of the proteasome interaction with the Sec61 channel in the endoplasmic reticulum.** Ng, W., Sergeyenko, T., Zeng, N., Brown, J. D. and Römisch, K.
- 692 **TACE release of TNF- α mediates mechanotransduction-induced activation of p38 MAPK and myogenesis.** Zhan, M., Jin, B., Chen, S.-E., Reecy, J. M. and Li, Y.-P.
- 702 **Compartmentalization of the functions and regulation of the mitotic cyclin Clb2 in *S. cerevisiae*.** Eluère, R., Offner, N., Varlet, I., Motteux, O., Signon, L., Picard, A., Bailly, E. and Simon, M.-N.

Author Correction

- 712 **Formin-induced actin cables are required for polarized recruitment of the Ste5 scaffold and high level activation of MAPK Fus3.** Qi, M. and Elion, E. A.