



Cover: Mitochondria (green) in *Drosophila* ovarian germ cells form abnormal large clumps in the absence of the highly conserved protein Clueless. See article by Sen et al. on page 577.

## REVIEW

- 509 Yeast as a system for modeling mitochondrial disease mechanisms and discovering therapies  
**Lasserre, J.-P., Dautant, A., Aiyar, R. S., Kucharczyk, R., Glatigny, A., Tribouillard-Tanvier, D., Rytka, J., Blondel, M., Skoczen, N., Reynier, P., Pitayu, L., Rötig, A., Delahodde, A., Steinmetz, L. M., Dujardin, G., Procaccio, V. and di Rago, J.-P.**

## RESEARCH ARTICLES

- 527 The Meckel-Gruber syndrome protein TMEM67 controls basal body positioning and epithelial branching morphogenesis in mice via the non-canonical Wnt pathway  
**Abdelhamed, Z. A., Natarajan, S., Wheway, G., Inglehearn, C. F., Toomes, C., Johnson, C. A. and Jagger, D. J.**
- 543 The lysyl oxidase inhibitor  $\beta$ -aminopropionitrile reduces body weight gain and improves the metabolic profile in diet-induced obesity in rats  
**Miana, M., Galán, M., Martínez-Martínez, E., Varona, S., Jurado-López, R., Bausa-Miranda, B., Antequera, A., Luaces, M., Martínez-González, J., Rodríguez, C. and Cachafeiro, V.**
- 553 High-resolution live imaging reveals axon-glia interactions during peripheral nerve injury and repair in zebrafish  
**Xiao, Y., Faucherre, A., Pola-Morell, L., Heddleston, J. M., Liu, T.-L., Chew, T.-L., Sato, F., Sehara-Fujisawa, A., Kawakami, K. and López-Schier, H.**
- 565 Phenotype-driven chemical screening in zebrafish for compounds that inhibit collective cell migration identifies multiple pathways potentially involved in metastatic invasion  
**Gallardo, V. E., Varshney, G. K., Lee, M., Bupp, S., Xu, L., Shinn, P., Crawford, N. P., Inglese, J. and Burgess, S. M.**
- 577 Clueless, a protein required for mitochondrial function, interacts with the PINK1-Parkin complex in *Drosophila*  
**Sen, A., Kalvakuri, S., Bodmer, R. and Cox, R. T.**
- 591 Presence of multiple lesion types with vastly different microenvironments in C3HeB/FeJ mice following aerosol infection with *Mycobacterium tuberculosis*  
**Irwin, S. M., Driver, E., Lyon, E., Schrupp, C., Ryan, G., Gonzalez-Juarrero, M., Basaraba, R. J., Nuermberger, E. L. and Lenaerts, A. J.**
- 603 Heterogeneous disease progression and treatment response in a C3HeB/FeJ mouse model of tuberculosis  
**Lanoix, J.-P., Lenaerts, A. J. and Nuermberger, E. L.**
- 611 Understanding the molecular mechanisms of human microtia via a pig model of *HOXA1* syndrome  
**Qiao, R., He, Y., Pan, B., Xiao, S., Zhang, X., Li, J., Zhang, Z., Hong, Y., Xing, Y. and Ren, J.**
- 623 Deletion of the *App-Runx1* region in mice models human partial monosomy 21  
**Arbogast, T., Raveau, M., Chevalier, C., Nalesso, V., Dembele, D., Jacobs, H., Wendling, O., Roux, M., Duchon, A. and Hérault, Y.**

## RESOURCE ARTICLE

- 635 Leiomodrin-3-deficient mice display nemaline myopathy with fast-myofiber atrophy  
**Tian, L., Ding, S., You, Y., Li, T.-r., Liu, Y., Wu, X., Sun, L. and Xu, T.**