

**Cover**

Cells subjected to oxidative stress accumulate the DNA lesions FaPydG and 8-oxodG – often with serious consequences: the latter lesion leads to mutagenic translesion replication by polymerase I. For the first time, it has been possible to compare replication and repair of the two chemically related DNA lesions in near-atomic detail. For further details, see the article by Matthias Ober on pages 135-139.

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**RESEARCH**

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**At the crossroads of lipid metabolism and inflammation. The role of PPAR- $\gamma$ , a lipid-activated transcription factor**  
*The nuclear receptor PPAR- $\gamma$  influences different, but related, functions in various cell types and under different physiological and pathological conditions such as adipogenesis, lipid metabolism and atherosclerosis. Increasing evidence suggests that it also plays a hitherto unpredicted role in immune regulation. Here the authors review recent advances in the role of PPAR- $\gamma$  in cells of myeloid origin, macrophages and dendritic cells.*

**SCIENCE**

- 86** Gábor M. Lamm  
**Innovation Works™. A case study of an integrated pan-European technology transfer model**  
*If properly managed, technology transfer activities allow for the fruits of basic research to be developed – together with commercial partners – into marketable tools and products. Using the technology transfer set-up of the European Molecular Biology Laboratory in Heidelberg (Germany) as a case study, Gábor Lamm illustrates what it takes to make technology transfer work.*

**PROJECTS**

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cell adhesion during zebrafish germ-layer formation • The role of oxidative stress in *Caenorhabditis elegans* ageing • Understanding epithelial polarization by deciphering polarized exocytosis of E-Cadherin • Identifying the role of *Hoxa1* in early mammalian development • The regulation of lipid droplet biogenesis • Role and plasticity of DNA methylation during stem-cell differentiation • Multidisciplinary studies on *ASH1* mRNP assembly • Pre- and postsynaptic effects of neurogliaform cells in cortical circuits • Characterization of human Dcn1 homologues and their role in Nedd8 conjugation • Dynamics of histone modifications during chromatin assembly *in vitro* • Stromal cells in the T zones of secondary lymphoid tissues • Involvement of the Nup107 nuclear pore sub-complex in co-ordinating entry, progression and exit from mitosis •

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