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*Phosphodiesterase 5 regulates smooth muscle contractions by controlling intracellular levels of cGMP. NMR spectroscopic analysis of the cGMP-binding GAF A domain visualizes the allosteric regulation of enzymatic activity by cGMP. For further details, see the article by Clemens Heikau on pages 126–129.*

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**Evo-Devo, or: what cichlids tell us about our world**  
*'Nothing in biology makes sense, except in the light of evolution.' In this belief, over 30 scientists from all over the world came together from October 14–18, 2009, for the 100<sup>th</sup> International Titisee Conference, hosted by the B.I.F. to discuss the question of how the vast diversity of life on earth evolved. Prof. Dr. Axel Meyer, one of the conference's organizers, talks about the creative powers of evolution and the surprising discoveries of modern science.*

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**Boehringer Ingelheim Prize 2010 for Cancer Researchers at Mainz University**  
*Since its foundation in 1977, the Boehringer Ingelheim Foundation has been dedicated to the promotion of medical, biological, chemical and pharmaceutical science. Every year since 1995, the foundation awards the 20,000 Euro Boehringer Ingelheim Prize for outstanding clinical and theoretical research in medicine at the University of Mainz, Germany. This article introduces this year's awardees as well as their projects.*

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