

## COVER

Identifying genes involved in germ layer formation: examples of macroarray hybridizations to detect Nodal target genes in the zebrafish.

For further details, see the article by Thomas Dickmeis on pages 117-120.

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**Genetics and molecular biology of skeletal development – deciphering the signalling networks in bone formation**  
*The skeleton has proved to be an extraordinary tool to address questions regarding size, shape and patterning. David et al. report on the 1st Wittgenstein Conference, at which recent progress in cartilage formation and bone cell differentiation was discussed.*

## SCIENCE

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**Experimental life and experimental disease – the role of animal experiments in Robert Koch's medical bacteriology**  
*Experimentation with animals advanced to a focus of medical research in the 19th century, as medical bacteriology became the show discipline. It was to revolutionize the understanding of infectious diseases, however without a theory.*

## PROJECTS

- 89 Integration of Hox protein function and signalling molecules during development • The role of ARF-related proteins in membrane traffic • Structural analysis of the multiprotein RNA polymerase II-TFIIF complex • Real-time visualization of single vesicle dynamics • How genetic regulatory networks evolve: the origin of a new gene enhancer • Towards a comprehensive description of habitats of intracellular pathogens, i.e. *Leishmania spp.* • Cloning and differentiation: correlating the epigenetic status of different donor cells with their nuclear transfer efficiency • Molecular characterization of im-

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