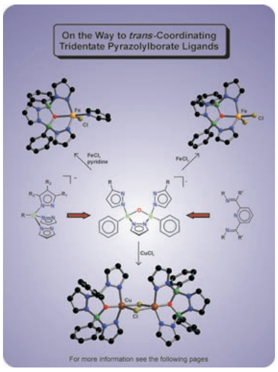
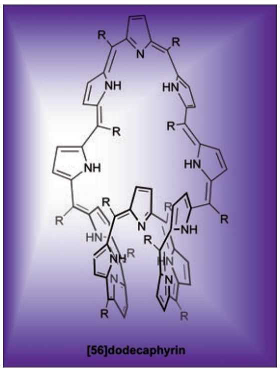
One precatalyst fits all!…

… The ease-of-synthesis, high reactivity, and low cost of the PEPPSI (pyridine-enhanced precatalyst, preparation, stabilization, and initiation) precatalyst greatly improves the ease-of-use and reliability of the methodology based on the use of palladium N-heterocyclic carbene (NHC) complexes. M. Organ et el. report on its use in Suzuki–Miyaura reactions on page 4743 ff. and in Negishi reactions on page 4749 ff.

Instant Ligand Libraries
In their Concept on page 4722 ff., J. G. de Vries and L. Lefort describe how the development of new ligands based on monodentate phosphoramidites enabled the development of an integral high-throughput experimentation (HTE) protocol for asymmetric hydrogenation. They also discuss other concepts, still under development, based on chiral ruthenacycles as new transfer hydrogenation catalysts and the use of enzymes as ligands for transition-metal complexes.

trans-Pyrazolylborate Ligands
Tris(pyrazol-1-yl)borate ("scorpionate") ligands are a well-established class of *cis*-coordinating tridentate chelators. Their highly modular assembly makes a multitude of different tailor-made derivatives readily available. In their Full Paper on page 4735 ff., M. Wagner et al. describe how the advantages of pyrazolylborate chemistry can be exploited for the development of N,O,N′ tridentate and *trans*-chelating ligands.





Expanded Porphyrins
In their Full Paper on page 4909 ff., A. Osuka et al. report on the synthesis and characterization of a series of expanded porphyrins as the first examples bearing *meso*-alkyl substituents. The influence that these *meso*-trifluoromethyl substiuents have on the structures and stabilities of the expanded porphyrins is also discussed.

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