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The ▣ and ◈ symbols in the table of contents identify articles discussed in the *Perspectives*.

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S Supplemental material is available online at http://molpharm.aspetjournals.org.

About the cover: Homology models of the agonist binding domain of the wild-type $\alpha4\beta2$ (A) and D$\alpha2\beta2$ (B) nAChRs and their T77R;E79V mutants (C, $\alpha4\beta2$ nAChR; D, D$\alpha2\beta2$ nAChRs) bound by imidacloprid constructed using the crystal structure (PDB code 1UW6) of the acetylcholine binding protein (AChBP) from snail *Lymnaea stagnalis*. See the article by Shimonura et al. on page 1255 of this issue.