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Editor's Note	1
PharmGKB Update	
PharmGKB Submission Update: IX. ADRB1 Gene Summary <i>Michael A. Pacanowski and Julie A. Johnson</i>	2
IUPHAR Nomenclature Report	
International Union of Basic and Clinical Pharmacology. LXVII. Recommendations for the Recognition and Nomenclature of G Protein-Coupled Receptor Heteromultimers <i>Jean-Philippe Pin, Richard Neubig, Michel Bouvier, Lakshmi Devi, Marta Filizola, Jonathan A. Javitch, Martin J. Lohse, Graeme Milligan, Krzysztof Palczewski, Marc Parmentier, and Michael Spedding</i>	5
Review Articles	
Emerging Roles for Ubiquitin and Protein Degradation in Neuronal Function <i>Jason J. Yi and Michael D. Ehlers</i>	14
Biomarkers in the Prevention and Treatment of Atherosclerosis: Need, Validation, and Future <i>James H. Revkin, Charles L. Shear, Hubert G. Pouleur, Steven W. Ryder, and David G. Orloff</i>	40
Interaction of Endothelial Nitric Oxide and Angiotensin in the Circulation <i>Noboru Toda, Kazuhide Ayajiki, and Tomio Okamura</i>	54
The Endomorphin System and Its Evolving Neurophysiological Role <i>Jakub Fichna, Anna Janecka, Jean Costentin, and Jean-Claude do Rego</i>	88
Erratum	
Correction to "Theoretical Basis, Experimental Design, and Computerized Simulation of Synergism and Antagonism in Drug-Combination Studies"	124

About the cover: The UPS. Ubiquitin (Ub) is activated in an ATP-dependent reaction by the E1 ubiquitin-activating enzyme and appended to target proteins by the successive action of E2 ubiquitin-conjugating enzymes, E3 ubiquitin ligases, and E4 chain elongation factors. See the article by Yi and Ehlers on page 14 of this issue.