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The advent of genome science had markedly changed the way in which research on drug therapy including novel drug discovery processes is conducted; thus, a "systematic" and "integrated" approach is required (so-called genomewide survey). Now, genomewide transcriptome and proteomics scanning are becoming feasible. The stream of "genome-transcriptome-proteomics" is logical, and in each aspect approaches for functional genomics are now being pursued actively, particularly now that the Human Genome Project is completed, although a standardized approach is lacking. Very recently, novel genome-based technology has been applied in medical research. With this background, this symposium will focus on the two themes of novel drug discovery and personalized medicine.