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Sommario/riassunto	Miniturization and high throughput assay technology have brought the power of molecular evolution to the bioscience laboratory. Applied wisely, the evolutionary approach can quickly yield the desired result even where other methods have failed. From library generation by random or directed mutagenesis to screening and selection techniques -- the crucial steps for successful evolutionary biotechnology are described in detail in this practical guide that also includes valuable troubleshooting hints on frequently encountered problems. Modern methods for the surface display of peptides and p