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^{OA}Open Access paper.



Cover While next-generation sequencing technologies have greatly increased sequencing capacity, genotyping libraries composed of a large number of specimens is still challenging. Combinatorial pooling designs offer a method to harness next-generation sequencers for that task. This solution has deep mathematical connections to concepts in information theory and combinatorics and is reminiscent of the solving of Sudoku puzzles. DNA Sudoku exploits a combinatorial design to genotype thousands of specimens in a single sequencing run. (Cover design by Beni Zaks and Yaniv Erlich. Photo: Ronit Zaks-Erlich. [For details, see Erlich et al., pp. 1243–1253, and related papers by Prabhu and Pe’er, pp. 1254–1261, and Xin et al., pp. 1262–1269.]