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Lean and green

The green revolution of the 1960s saw the creation of high-yield cereal crops. But these crops are poor at using nitrogen and so require large amounts of environmentally damaging fertilizer to reach their potential. In this issue, Xiangdong Fu and colleagues show that boosting the activity of the protein GRF4 improves the plants' nitrogen usage while maintaining their high yield. [PAGES 563 & 595](#)

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666 STRUCTURAL BIOLOGY Crystal structure of the Frizzled 4 receptor in a ligand-free state

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