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Cover Illustration: In this issue, Turney and colleagues (doi: 10.1101/pdb.prot072082) provide a protocol for imaging developing neuromuscular junctions in living mice. The four panels show (from *left* to *right*, *top* to *bottom*): original confocal image of a dually innervated neuromuscular junction at postnatal day 8 (each axonal input expressing cyan fluorescent protein [CFP] and yellow fluorescent protein [YFP]); confocal image of smaller "red" input (bleaching down fluorescence in larger "yellow" input transiently); confocal image after refilling (bleaching YFP in larger input to change its color to green); and confocal image of the same neuromuscular junction a day later. CFP and YFP (pseudo-colored green and red, respectively) were expressed cytoplasmically in all motor neurons. The expression level of each varied independently from cell to cell. Acetylcholine receptors were lightly labeled with alexa-647 α-bungarotoxin (pseudo-colored blue). Fluorescence recovery after photobleaching (refilling) occurred within a few minutes. The combination of multicolor labeling and selective photobleaching facilitates studying of changes in the spatial relationship between inputs over time. Images courtesy of Stephen Turney and Jeff Lichtman.

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