Schwann cell precursors and dorsal root ganglion (DRG) neurons were independently isolated from embryonic rodent DRGs. When the Schwann cell precursors were placed onto DRG axons and allowed to differentiate, the Schwann cells wrapped the axons with their myelin sheaths in vitro. The coculture was immunostained with antibodies against the myelin-forming Schwann cell marker myelin basic protein (red) and pan-neurofibrilament (green). DAPI (blue) mostly indicates Schwann cell nuclei in this photograph. In their article in the October 1, 2015, issue of MBoC, Miyamoto et al. show that signaling through Tyro3 receptor tyrosine kinase and its binding partner, Fyn nonreceptor cytoplasmic tyrosine kinase, is involved in myelination by Schwann cells (Mol. Biol. Cell 26, 3489–3503). (Image: Yuki Miyamoto and Junji Yamauchi, National Research Institute for Child Health and Development, Tokyo, Japan)