

Photography CREDITS

Cover: Microtubules, as visualized with an α -tubulin antibody, form excessive loops in the axons of neurons derived from a zebrafish phr mutant. These defects lead to guidance failures at intermediate targets *in vivo*.

Courtesy, with permission: Michael Hendricks et al.; *The Journal of Neuroscience* 2009, 29(20):6593-6598.

Inside cover and Page 1: An artistically stylized view of a mutant *Drosophila* visual system. When the transcription factor Runt is mis-expressed in the developing visual system, seen here at 40 percent pupal development, many photoreceptor axons (green) bypass the lamina and terminate in the medulla. The pupal brain was immunohistochemically labeled for the neuronal nuclei (anti-ELAV, magenta), photoreceptor axons (anti-Chaoptin, green) and glial nuclei (anti-Repo, blue).

Courtesy, with permission: Tara N. Edwards et al.; *The Journal of Neuroscience* 2009, 29(3):828-841.

Page 2 and 12: Human temporal lobe cortex immunolabeled for astrocytes (GFAP; yellow), neurons (MAP2; blue), and nuclei (DAPI; green) shows protoplasmic astrocytes and a varicose projection astrocyte, a novel glial type.

Courtesy, with permission: Oberheim et al.; *The Journal of Neuroscience* 2009, 29(10):3276-3287.

Page 5: Expression of marker proteins in the retina of zebrafish embryos (72 h postfertilization). Frozen eye sections were stained with PKC 1 (green), Zn-5 (red), and DAPI (blue).

Courtesy, with permission: Nakaya et al.; *The Journal of Neuroscience* 2008, 28(31):7900-7910.

Page 7: Identified neurons in the central nervous system of the marine mollusk *Aplysia californica* exemplify simple forms of learning and memory.

Courtesy, with permission: Thomas J. Carew.

Page 13: Serotonin (5-HT) axons in portions of somatosensory cortex and dorsal hippocampus from an 18-month-old mouse. The axons were visualized by silver gold enhanced 5-HT immunocytochemistry and darkfield microscopy.

Courtesy, with permission: Liu et al.; *The Journal of Neuroscience* 2008, 28(51):13805-13814.

Page 17: Photo by Katsuyoshi Tanaka

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Page 31: Data courtesy of WHO *World Health Report* 2002.

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Page 40: Data Courtesy: National Institutes of Health Research Portfolio Online Reporting Tool; http://report.nih.gov/award/success/Success_ByIC.cfm. Image: Copyright 2009, Society for Neuroscience. All rights reserved. Photo by Joe Shymanski.

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Page 44: Double immunolabeling of axons (β tubulin; red) and myelin (myelin basic protein; green) in dorsal root ganglion cultures shows *in vitro* myelination by endogenous Schwann cells.

Courtesy, with permission: Saher et al., *The Journal of Neuroscience* 2009, 29(19):6094-6104.

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