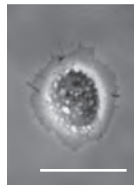


A Developmental stages of a neuron grown in culture

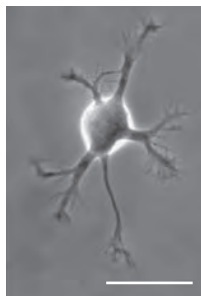
Stage 1

Lamellipodia formation



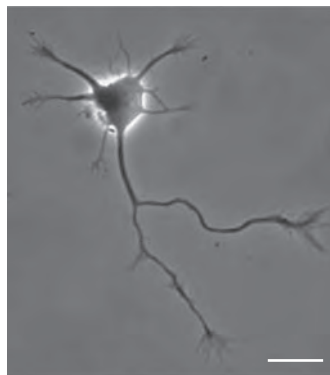
Stage 2

Neurite formation



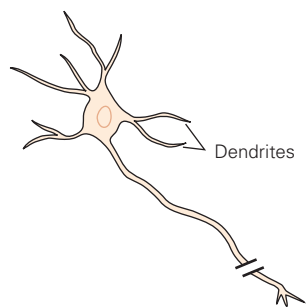
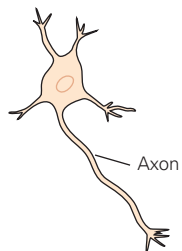
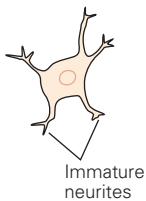
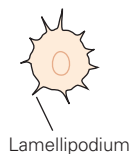
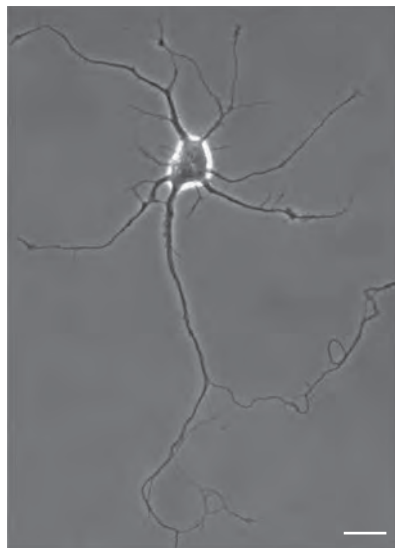
Stage 3

One neurite becomes an axon



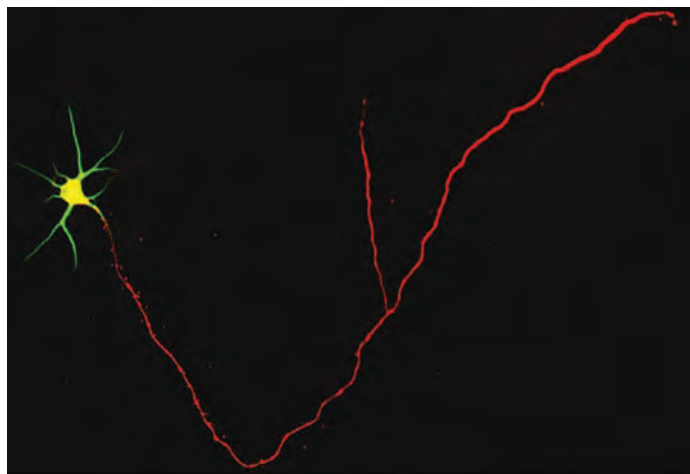
Stage 4

Other neurites become dendrites



B SAD kinases are required for neuronal polarization

Control



■ Axon marker, Tau
■ Dendrite marker, Map2

SAD kinase mutant

