

### **Ultrastructural characterization of myelinating cocultures abnormalities**

	<b>shCTRL</b>	<b>shMLCK</b>
<b>Total # of myelin profiles</b>	60	31 <sup>+</sup>
Normal profiles	49 (82%)	17 (55%)
Abnormal profiles	11 (18%)	14 (45%) <sup>¶</sup>
<b>Inclusion bodies and/or myelin ovoids</b>	6 (10%)	5 (16%)
<b>Outpocketing and/or myelin whorls</b>	7 (12%)	6 (19%)
<b>Compaction defects*</b>	0 (0%)	5 (16%)
<b>Thin or uneven myelin*</b>	2 (3%)	7 (23%)
<b>SC with swollen ER*</b>	1(2%)	4 (7%)

A total of 55 (shCTRL) and 74 (shMLCK) high magnification fields (10,500X) were scored for the presence of myelin. Cultures treated with shMLCK had significantly less myelinated axons (+) with a larger proportion of them exhibiting various morphological defects (¶). Some abnormalities (\*) such as thin myelin and swollen ER were more commonly found in shMLCK cultures, while compaction defects were seen only in shMLCK-treated cultures.