TROUBLESHOOTING TABLE

Step	Problem	Possible reason	Solution
2	The grid number is	Cell density is too	Fix and image cells by light
	not visible by light	high	microscopy images when the
	microscopy	_	cell monolayer is less than or
			at most 70% confluent
4	Cells do not form a	Fixation time is too	Reduce the fixation time for
	compact pellet at the	long	cells in the dish before
	bottom of the tube		scraping and transferring the
	during centrifugation		cell monolayer to a 1.5 mL
7	Con not ooo	#OTO managed una	Change protocol to reuting
7	Can not see ribosomes on ER	rOTO procedure highlighted	Change protocol to routine glutaraldehyde - osmium
	TIDOSOTTIES OF EK	membrane structure	fixation, however, the samples
		which reduces the	are likely to have increased
		contrast of ribosomes	charging issues during SBF-
		23.11.43. 31 11.500011100	SEM imaging
19	Sample can not be	Sample has not been	Bake sample in a 100 °C oven
	cut evenly	fully polymerized	for 1 h prior to loading the
			sample into the SEM chamber
22-	Charging during	Cell pellet sample is	Trim the blockface pillar to
24	imaging for cell pellet	not grounded	expose the sample at both the
			top and bottom of the pillar
			prior to mounting onto a 3View
20	Class san not be	1) Design is left aver	pin
29	Glass can not be separated from dish	Resin is left over from the final step of	1) Tilt the dish at a 45 ° angle in order to get rid of any resin
	for enface embedded	resin infiltration	that might be left over from the
	samples	2) Resin has	final resin infiltration step
	oampioo	overflowed from	2) Add 1 or 2 drops of
		glass coverslip into	Durcupan directly to the glass
		the surrounding	coverslip, taking care to not let
		plastic region of the	it overflow into the surrounding
		dish	areas of the dish
42	Charging during	Too much empty	Thin the non sample side of
	imaging for CLEM	resin between cell	the resin piece as much as
	enface embedded	and 3View pin	possible before gluing it to the
51	sample Sample can not be	Diamond Knife needs	3View pin Resharpen the Diamond knife
"	cut evenly	to be resharpened	after ~ 6000 slices
57	Sample can not be	Accelerating voltage	Reduce accelerating voltage
	cut evenly	is too high, causing	
	,	the sample surface to	
		warp	
55	Charging during	Imaging parameters	Adjust imaging parameters
	imaging	need optimization	listed in table 1