Modified SEM protocol for imaging of seawater samples

- Fix the cells in suspension in 2% glutaraldehyde in 0.1M PIPES for 1 h

- Filter cells onto PEI-coated 0.2 µm polycarbonate filters

- Transfer filter into 2% osmium tetroxide (in PIPES) and postfix for 1 h

- Rinse filter by immersion in dH₂O

- Dehydrate cells by immersing filter in 30%, 50%, 75%, 90% and 2x 100% ETOH, 10 min each

- Prepare the critical point drying chamber with 100% ethanol, transfer filter and critical point dry according to protocol for dryer use

- Mount filter onto SEM stub and sputter-coat