

Legends to Supplementary Files

Figure S1: *Bioassay-guided screening of active fractions from Crotalus oreganus venom*

A) HPLC fractions from venom were submitted to tubulin polymerization assay in the presence of DAPI. The increase in fluorescence indicates tubulin polymerization. All the activity was found on fraction B4. **B)** Combined profiles of sub-fractions of B4, loaded separately on analytical HPLC column. **C)** Sub-fractions of B4 were submitted to tubulin polymerization assay in the presence of DAPI. Most of the activity was found in sub-fraction B4-24.

Video S1: *z-stack images from MCF-7 cells transiently transfected with a farnesyl-GFP plasmid to visualize the cell membrane and incubated with Cy3-myotoxin-3*

Video S2: *Dynamic instability of individual microtubules in MCF-7 cells transiently expressing GFP-tagged tubulin (control)*

Video S3: *Dynamic instability of individual microtubules in MCF-7 cells transiently expressing GFP-tagged tubulin (in the presence of 25 μ M myotoxin-3)*