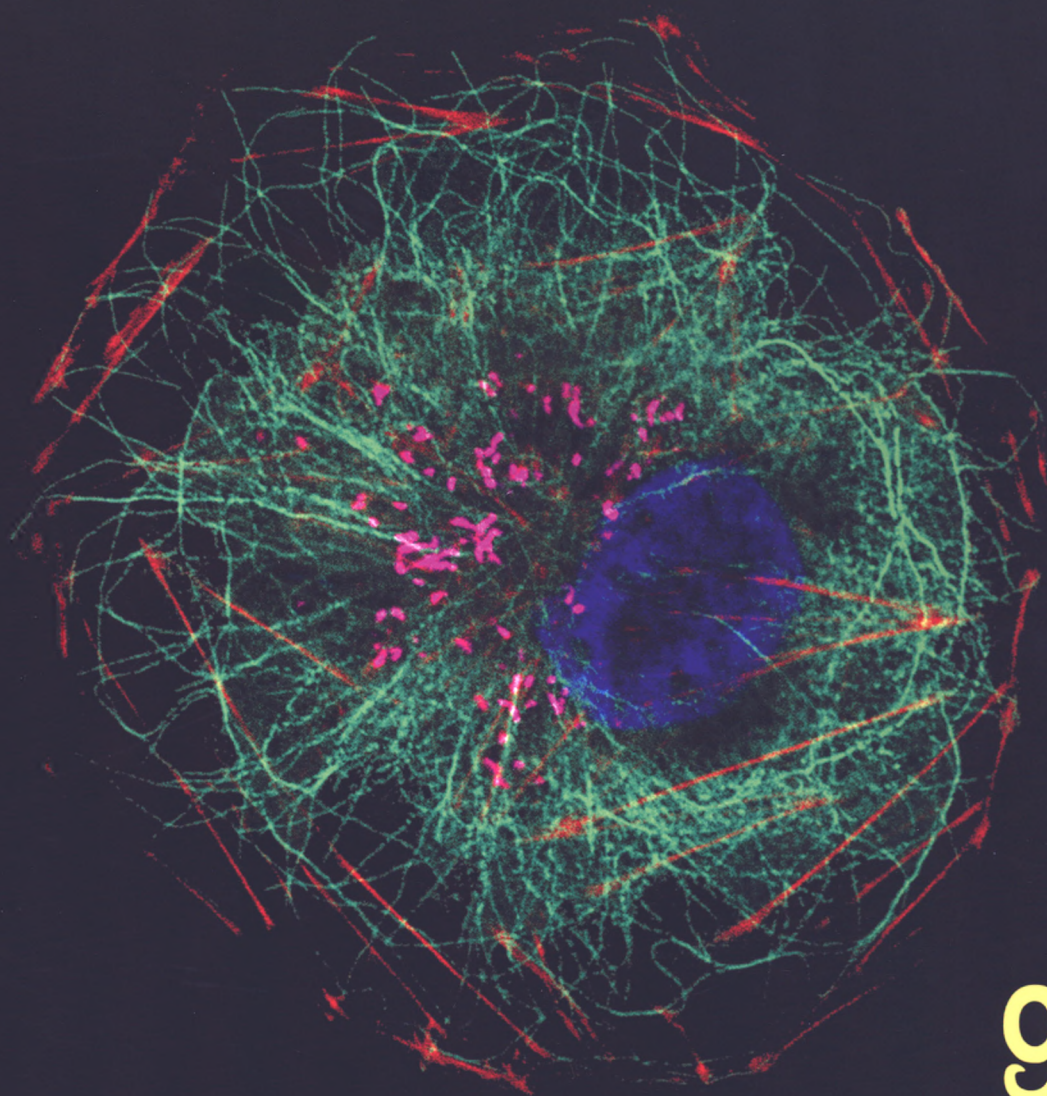


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封面图片:绿幽浮花(彭炬,中信湘雅生殖与遗传专科医院)。
IF(蓝色:核;红色:F-actin;绿色:α-tubulin;紫色:线粒体)将脐静脉内皮细胞培养到一定密度后,用Mitoracker mitochondrion-selective probes染线粒体(1:1000)而后PBS洗两次,再用多聚甲醛固定,然后破膜10 min,5%BSA封闭RT,1 h;一抗RT,2 h,二抗RT,1 h。用phallotoxins染F-actin,DAPI染核,PBS洗后用封片剂封片观察。微管不仅支持和维持细胞的形态,还要维持细胞内膜性细胞器的空间定位和物质运输的作用。微管与马达蛋白结合,从而沿微管“行走”,将“尾部”结合的“货物”(运输泡或细胞器)转运到其他地方。图中的线粒体(紫色)就是通过结合在微管(绿色)上,运动到细胞的各个地方。

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Cover image: Provided by PENG Ju, Reproductive & Genetic Hospital of CITIC-Xiangya. The image shows the microtubule cytoskeleton of a human umbilical vein endothelial cell, highlighting the mitochondria (purple) attached to the microtubules (green) stained with Mitotracker mitochondrion-selective probes and phallotoxins, respectively.

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