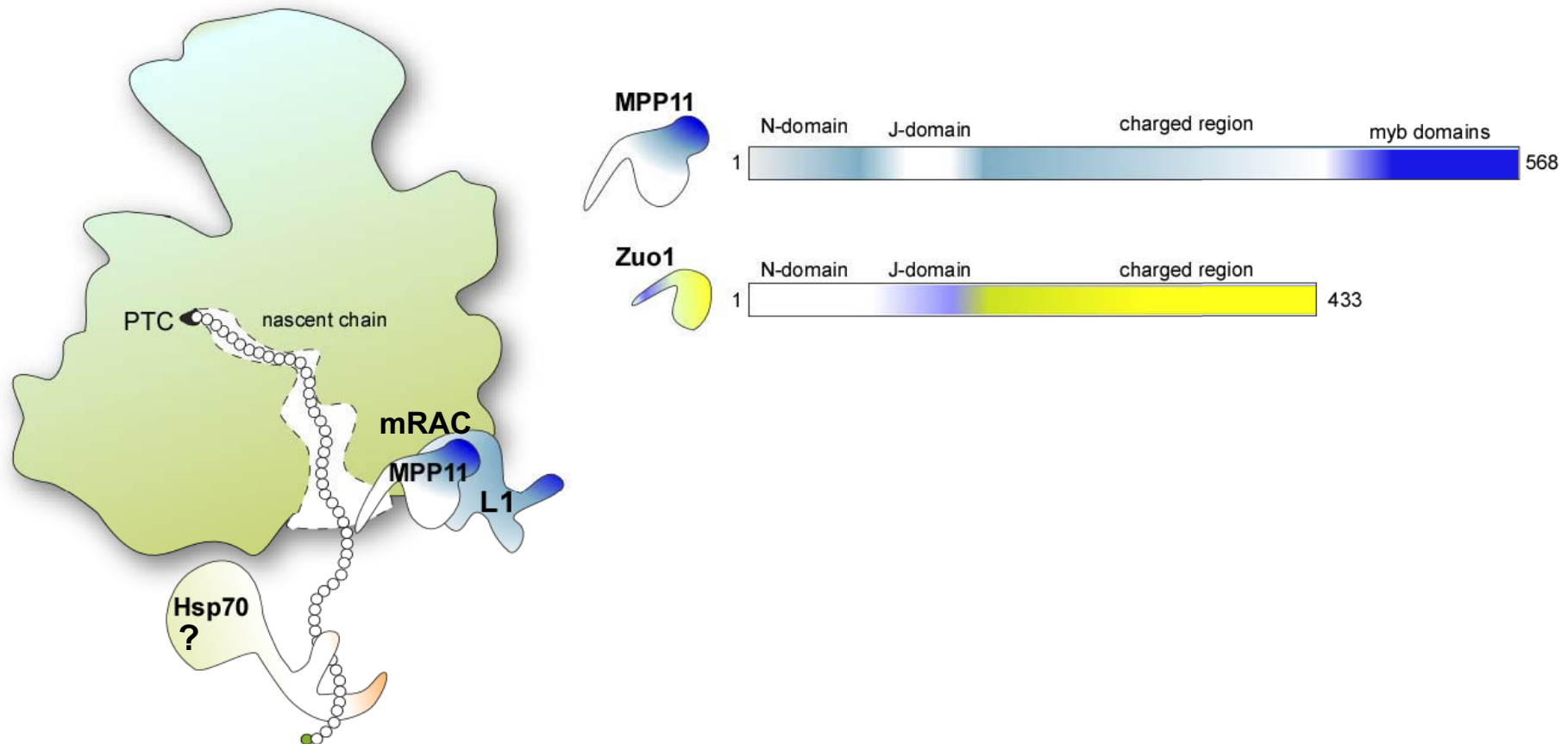


The function of mammalian ribosome-bound chaperones

How do mammalian ribosome-bound chaperones work and what additional functions have they acquired in higher eukaryotes ?



Few basics and open questions ...

RAC is conserved from yeast to men. Mammalian **mRAC** consists of **MPP11** and Hsp70L1. The Hsp40 homologs **Zuo1** and **MPP11** have a similar domain structure. However, only **MPP11** contains two additional myb domains in its extended C-terminal region. The presence of myb domains and also experimental evidence suggests a role of **MPP11** not only on the ribosome but also in the nucleus. How this dual localization and function relate to each other is not known. It is also open which of the many cytosolic Hsp70s in the mammalian cell functions together with **mRAC**.