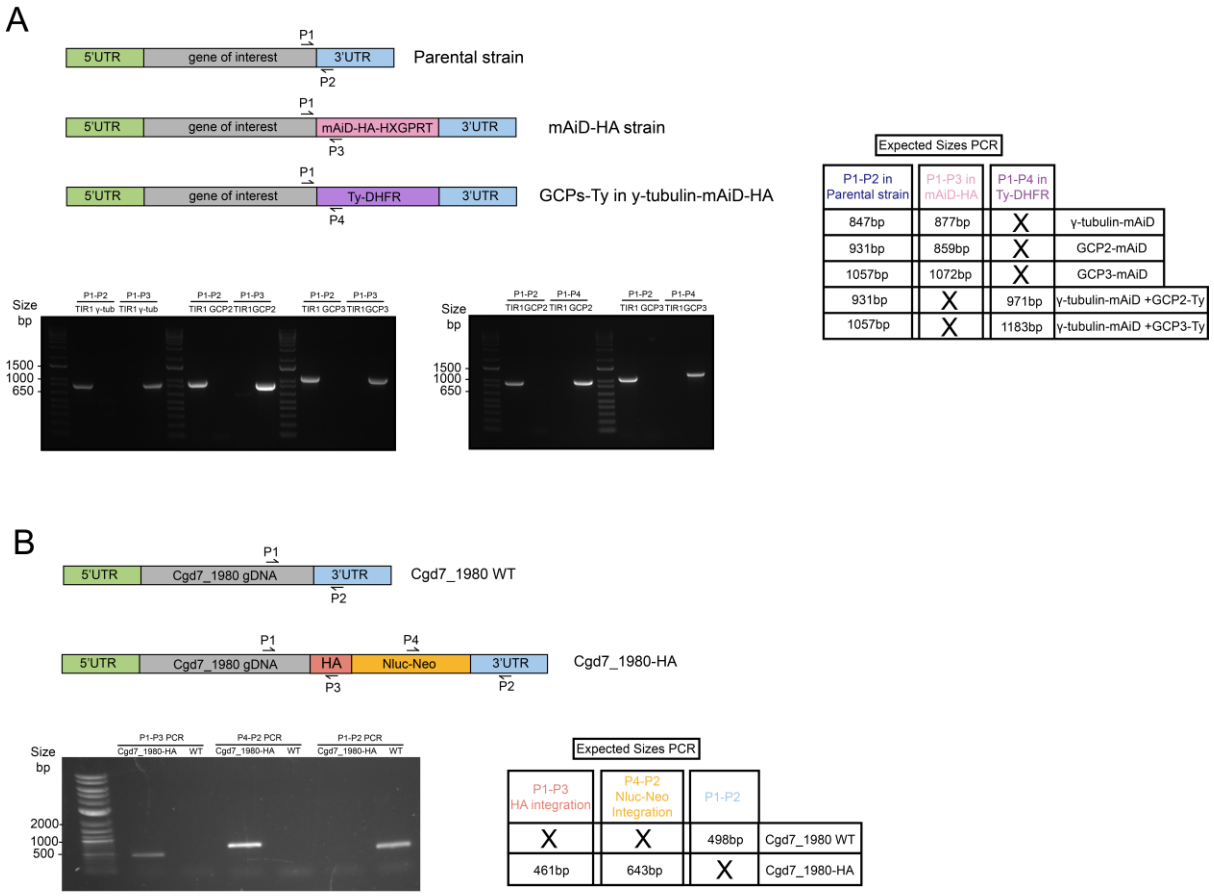
Supplemental Materials

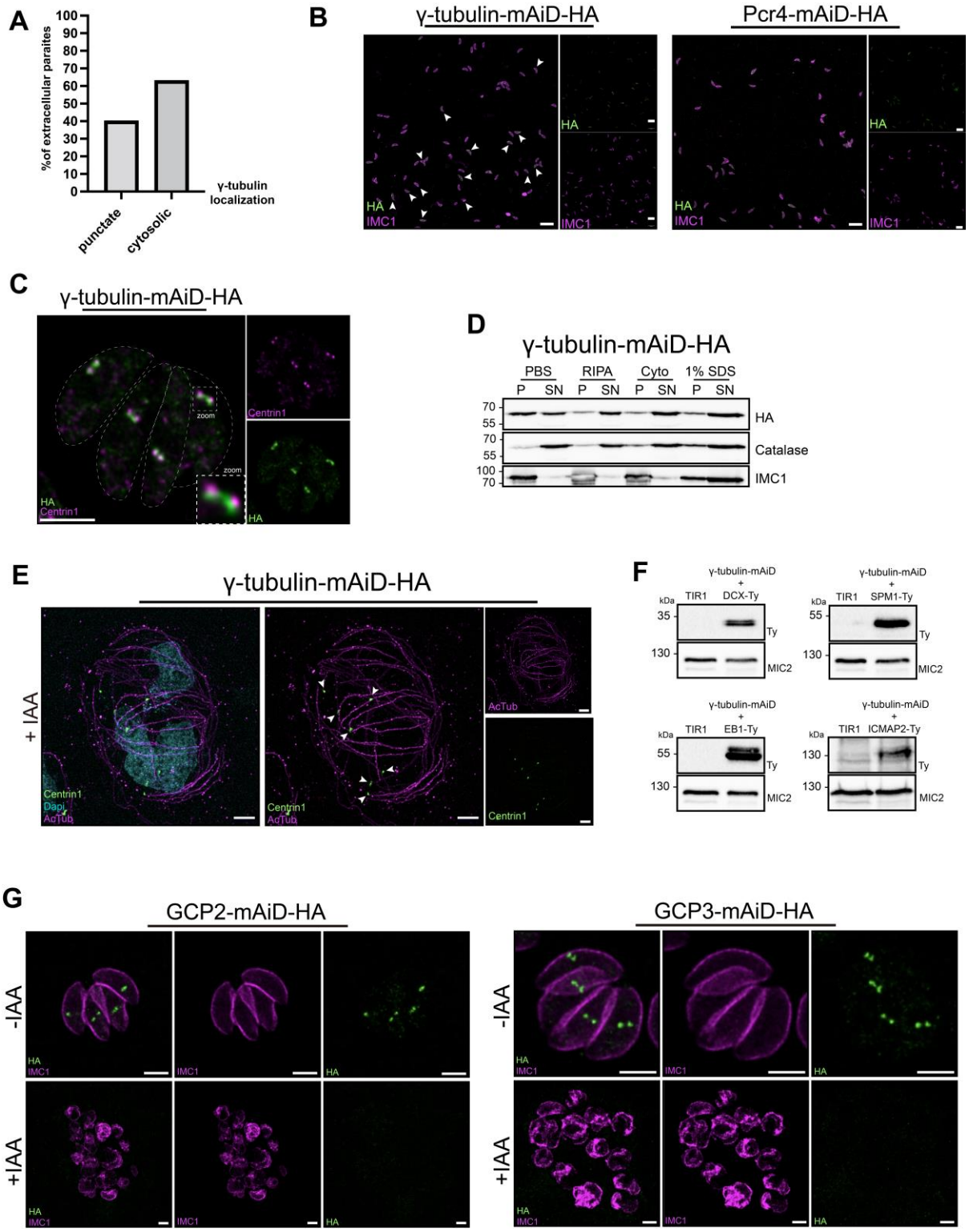
Molecular Biology of the Cell

Haase *et al*.



Supplemental Figure 1

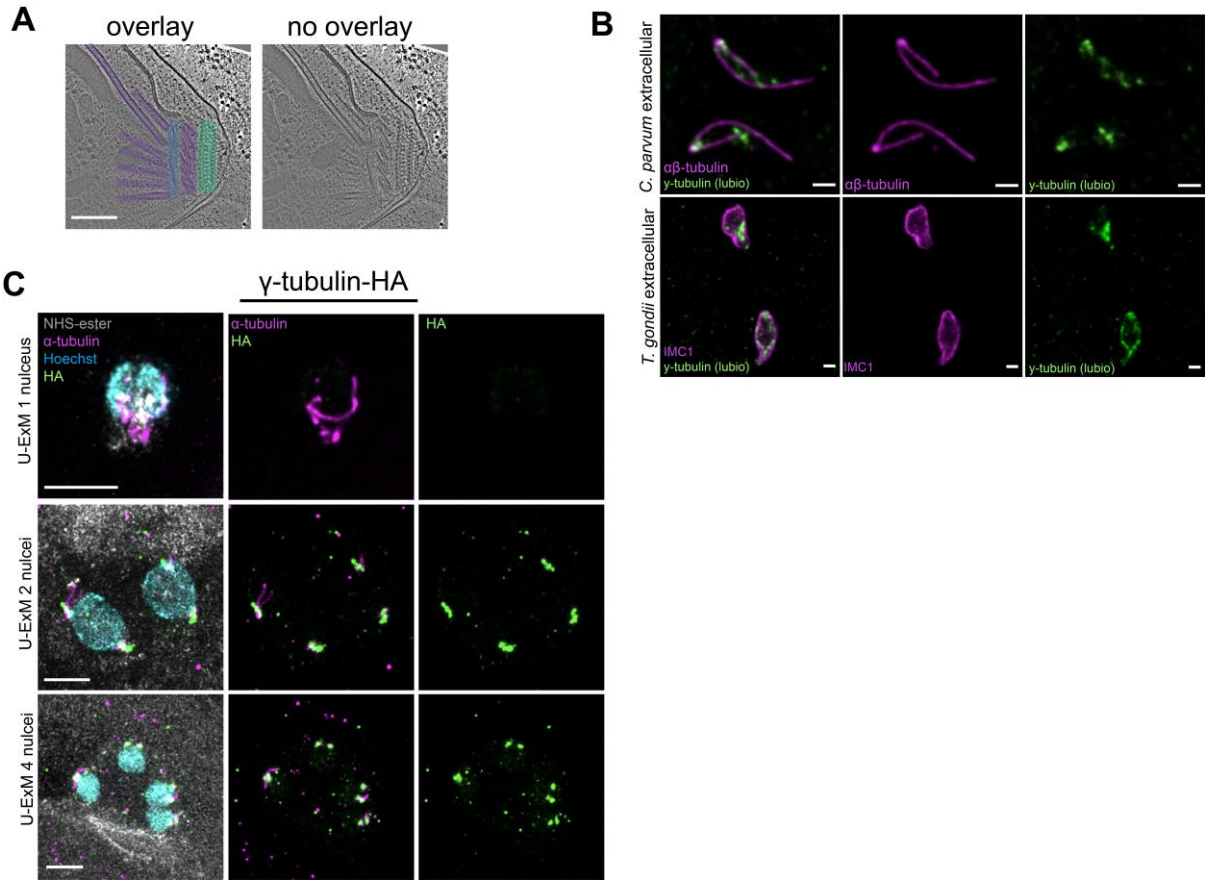
(A): Schematic representation of the genomic construction for *T. gondii* strains used in this study. Verification by genomic PCR of the correct integration of the constructs. **(B):** Schematic representation of the genomic construction for *C. parvum* strains used in this study. Verification by genomic PCR of the correct integration of the constructs.



Supplemental Figure 2

(A): Proportion analysis of the pattern staining of γ-tubulin-mAiD-HA in extracellular *T. gondii* parasites. N = 100 parasites. **(B):** IFA images of extracellular parasites of γ-tubulin-mAiD-HA and Pcr4-mAiD-HA strains. Arrows showing punctate staining for γ-tubulin protein. Scale bar = 10µm. **(C):** IFA images of colocalization of γ-tubulin and centrin1 protein in intracellular dividing parasites. Scale bar = 3µm. **(D):** Western-Blot analysis of the solubility of γ-tubulin on extracellular parasites extract. Catalase = PBS soluble protein control. IMC1 = SDS1% soluble protein control. **(E):** U-ExM of

intracellular dividing parasites depleted of γ-tubulin representing the fragmented centrin1 staining. Parasites were treated with auxin during 12h. Scale bar = 5µm. **(F):** Western-Blot analysis of the protein expression of the four microtubules associated proteins tagged into the γ-tubulin-mAID-HA background. MIC2 protein used as a loading control. **(G):** Immuno-fluorescence representing the phenotype and localization of GCP2-mAiD-HA and GCP3-mAiD-HA in intracellular dividing parasite in absence or presence of auxin (IAA) Scale bar = 3µm. In +IAA panels, parasites were treated with auxin during 12h.



Supplemental Figure 3

(A): Cryo-electron microscopy tomogram slice of the apical end of *C. parvum* sporozoite with or without overlay annotation. **(B):** IFA images representing the staining of a commercially available anti-γ-tubulin antibody in *T. gondii* tachyzoites and *C. parvum* sporozoites Scale bar = 1µm. **(C):** Additional U-ExM images of γ-tubulin-HA localization during *C. parvum* merogony. Scale bar = 5µm.