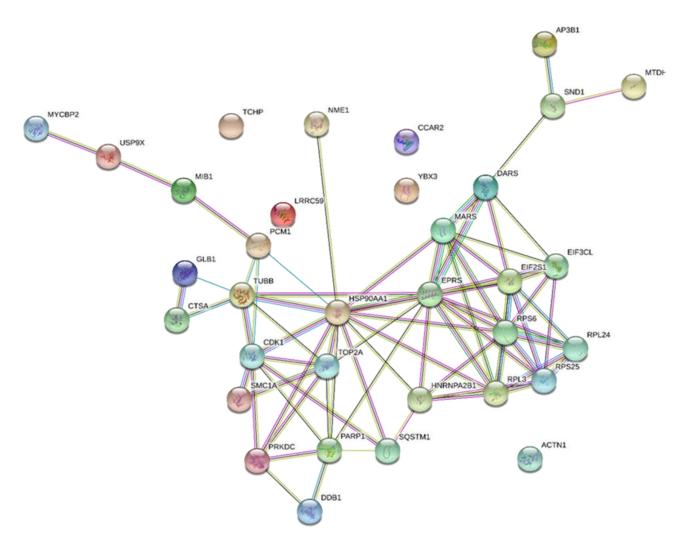
Appendix for "Trichoplein binds PCM1 and controls endothelial cell function by regulating autophagy"

Table of Content

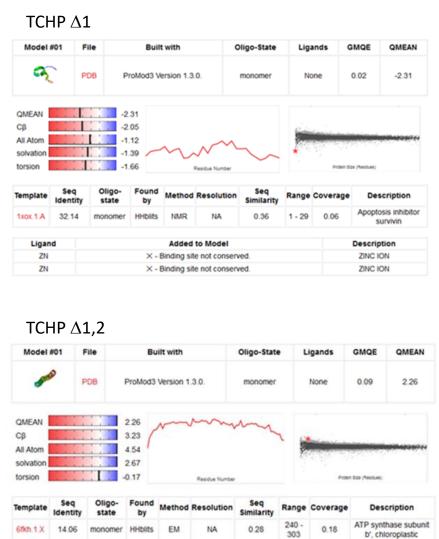
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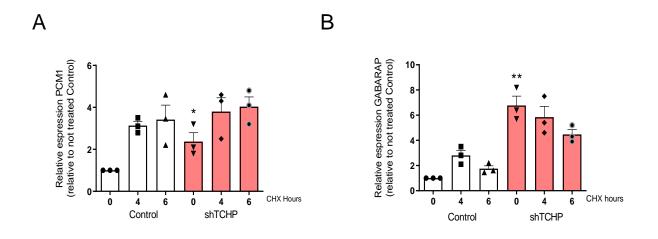
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Protein models:



Appendix Figure S1: Protein network and TCHP mutants analysis

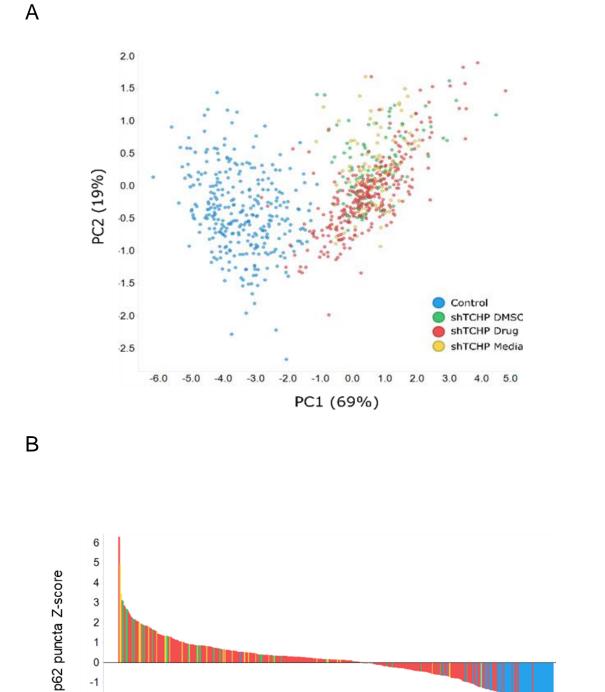
A, TCHP protein interaction network analysis using STRING software. **B**, The SWISS-MODEL (https://swissmodel.expasy.org/) template library (SMTL version 18-07-2019, PDB realese 12-7-2019) was searched with BLAST (Camacho, C et al. 2009) and HHBlits (Remmert et al. 2012) for evolutionary related structures matching the target sequence for TCHP Δ 1 and TCHP Δ 1,2. Top-hit homologues protein were Survivin for TCHP Δ 1 and ATP synthase subunit b for TCHP Δ 1,2



Appendix Figure S2: PCM1 and GABARAP expression

Expression of **A**, PCM1 and **B**, GABARAP in control or TCHP knock-down HUVECs were subjected to cycloheximide (CHX) for the indicated number of hours (A: one-way ANOVA, *p = 0.0325 vs control 0 hour; B: one-way ANOVA, **p = 0.0015 vs control 0 hour).

Data information: statistical analyses were performed on at least three independent experiments. Data are represented as mean \pm SD.

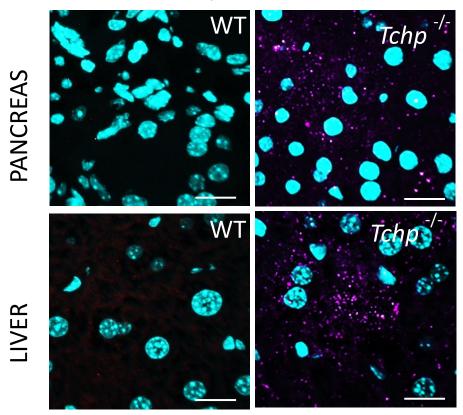


Appendix Figure S3: Phenotypic screening assay analysis

-1 -2 -3

A, Principal component analysis of compound screen. Principal components (PC) 1 and 2 are shown and their respective variance indicated. **B**, Z-score ranking of cytoplasmic puncta of p62 immunostaining.

p62/DAPI



Appendix Figure S4: Characterization of Tchp knock-out mice

Representative images of the liver and pancreas of wild-type and Tchp knock-out mice stained for DAPI (blue) and p62 (red). Scale bars, 50µm.