Supplementary information to:

Angiotensin II Type 1 Receptor Blockers Increase Tolerance of Cells to Copper and Cisplatin

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Supplementary materials and methods

Yeast growth curve determination

An overnight WT yeast culture in SC was diluted to OD600 = 0.01 in fresh SC and incubated with control (2 % DMSO), 250 μM Cp, 2 mM valproic acid, 2.5μM tunicamycin, 8.5 mM acetic acid or 7.81 μM CCCP in absence (2 % DMSO) or presence of 100 μM Candesartan Cilexetil and/or Losartan. Growth was monitored for 36 h by analyzing OD600 with a Bioscreen C MBR (Oy Growth Curves Ab Ltd, Helsinki, Finland). Experiments were performed at 30°C, while shaking continuously at medium amplitude.
Supplementary Fig. 1. ARBs do not trigger a general stress-protectant effect in yeast. Growth of WT yeast was monitored during 36 h upon treatment with 250 µM Cp (a), 2.5 µM tunicamycin (b), 2 mM valproic acid (c), 8.5 mM acetic acid (d) or 7.81 µM CCCP (e) in absence (control, triangles) or presence of 100 µM Candesartan Cilexetil (full circles) and/or 100 µM Losartan (open squares). Growth of an unstressed yeast culture was included as control (open circles). Data is representative for 2 biological repeats.
Supplementary Fig. 2. Cu induces Aif1p, Nuc1p and Yca1p-independent cell death. Serial dilutions of wild type (WT), Δaif1, Δnuc1 or Δyca1 were spotted onto control (0 mM Cu) or Cu-containing (1.25 mM – 1.5 mM) solid SC media in presence of control (0.5 % DMSO; top panels) or 100 µM Candesartan Cilexetil (bottom panels). Cell growth was evaluated following 48 h incubation at 30°C. Data representative for two biological repeats.