SUPPLEMENTAL FIGURE AND TABLE INVENTORY

Supplemental Figures

1. **Figure S1. Number of Kinases Bound Plotted Against the Number of Targets Bound** (Included on Page 1 of Supplemental figures and legends)

2. **Figure S2. Protein array vs Breitkreutz AC/MS complex comparison** (Included on Page 2 of Supplemental figures and legends)

3. **Figure S3. Rio1 Modules** (Included on Page 4 of Supplemental figures and legends)

4. **Figure S4. GO analysis enrichment diagram for CAMK Targets** (Included on Page 5 of Supplemental figures and legends)

Supplemental Tables

1. **Table S1. Protein Array Kinase interactions** (File uploaded as PDF Fasolo_Table S1)

2. **Table S2: Targets that failed to vaidate by co-IP/Immunoblot** (File uploaded as PDF Fasolo_Table S2)

3. **Table S3: Markov Analysis of phophomotif enrichment** (File uploaded as PDF Fasolo_Table S3)

4. **Table S4. Over-enriched interaction modules** (File uploaded as PDF Fasolo_Table S4)

5. **Table S5. GO Analysis for all kinase targets** (File uploaded as PDF Fasolo_Table S5)

6. **Table S6. GO Analysis for CAMK kinase targets** (File uploaded as PDF Fasolo_Table S6)

7. **Table S7. Yeast Strains used in this study** (File uploaded as PDF Fasolo_Table S7)