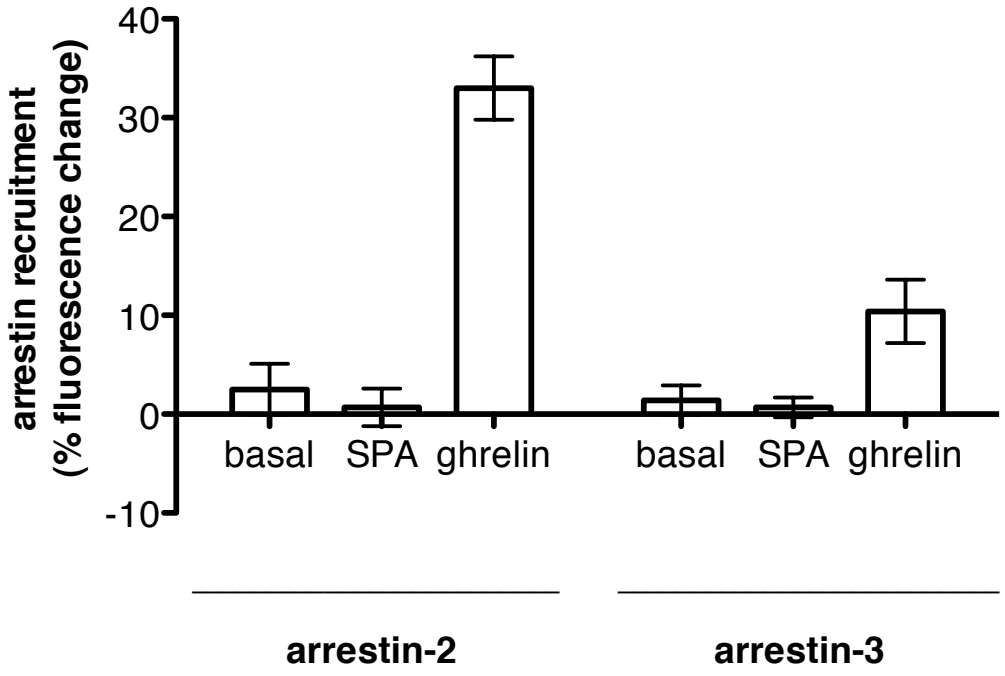
SUPPLEMENTARY DATA 7



Ghrelin activation of the purified GHS-R1a triggers arrestin-2 and arrestin-3 recruitment. Changes in emission intensity of bimane-labeled arrestin-2(R169E) and arrestin-3(R170E) induced by GHS-R1a in the absence of ligand, in the presence of the inverse agonist SPA, or in the presence of the full agonist ghrelin. The (R169E) and (R170E) mutants of arrestin-2 and arrestin-3, respectively, interact with purified GPCRs in a phosphorylation-independent manner (1). Data are presented as the percentage of fluorescence change and represent the mean value ± SD from three independent experiments. The percentage of fluorescence change was calculated as follows: I-I(0)/I(0) x 100, where I is the maximum emission intensity under the conditions considered and I(0) is the maximum emission intensity of bimane attached to arrestin in the absence of the receptor.

Reference

(1) Celver, J., Vishnivetskiy, S.A., Chavkin, C., and Gurevich, V.V. (2002). *J. Biol. Chem*. **277**:9043-9048.