***SUPPORTING INFORMATION***

**Text S4:**

***SAXS Experiments* –** SAXS data for LBD and DBD-LBD constructions of PPAR monomer and PPAR/RXR heterodimer were obtained through measurements of proteins at different concentrations (1, 3 and 6 mg/mL). All the x-ray scattering curves obtained in these different conditions were practically identical, indicating the absence of spatial correlation effects over the applied concentration range. This evidence can also be verified through *Rg* values calculated for every concentrations tested (Table S1). The variation between the *Rg* values for different concentrations was insignificant, showing that their values are independent of protein concentration for all the samples analyzed.