



Supplementary Figure 3 The SWIRM domain of LSD1. **(a)** Ribbon representation shown from different angles, with helices shown in yellow and coil regions in purple. **(b)** Surface representation shown from the same angles as in panel a. The surface is colored from gray (< 70% identity) to red (100% identity), according to the sequence conservation in Supplementary Figure 1. The interacting structural elements of the oxidase domain are shown transparently in blue (helices) and red (SWIRM-oxidase connector). **(c)** Superposition of the SWIRM domains from LSD1 (yellow) and *Ada2 α* (pink) in ribbon representation. A 180° rotated view is shown on the bottom. **(d)** Surface representations of the SWIRM domains of LSD1 and *Ada2 α* in the same orientation as in panel c. The electrostatic potential is plotted from red to blue onto the surface between -10kBT and +10kBT. The surfaces that are involved in oxidase domain binding (LSD1) and have been implicated in double-stranded DNA binding (*Ada2 α*) are indicated.