

**Standard chow diet (SD)**



**SD**

**High fat diet (HFD)**



**HFD + agomelatine (10 mg/kg)**



**HFD + agomelatine (25 mg/kg)**



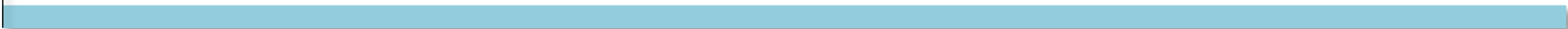
**HFD + agomelatine (50 mg/kg)**



**HFD + melatonin (15 mg/kg)**



**HFD + metformin (250 mg/kg)**



▲ Body weight    ● Food and water intake    ⬢ Sacrifice; fecal and samples collection