**Reward models**

Images → Aesthetic score
Molecules → QED
DNAs → Cell-specificity

Images → Aesthetic score
Molecules → QED
DNAs → Cell-specificity

Images → Aesthetic score
Molecules → QED
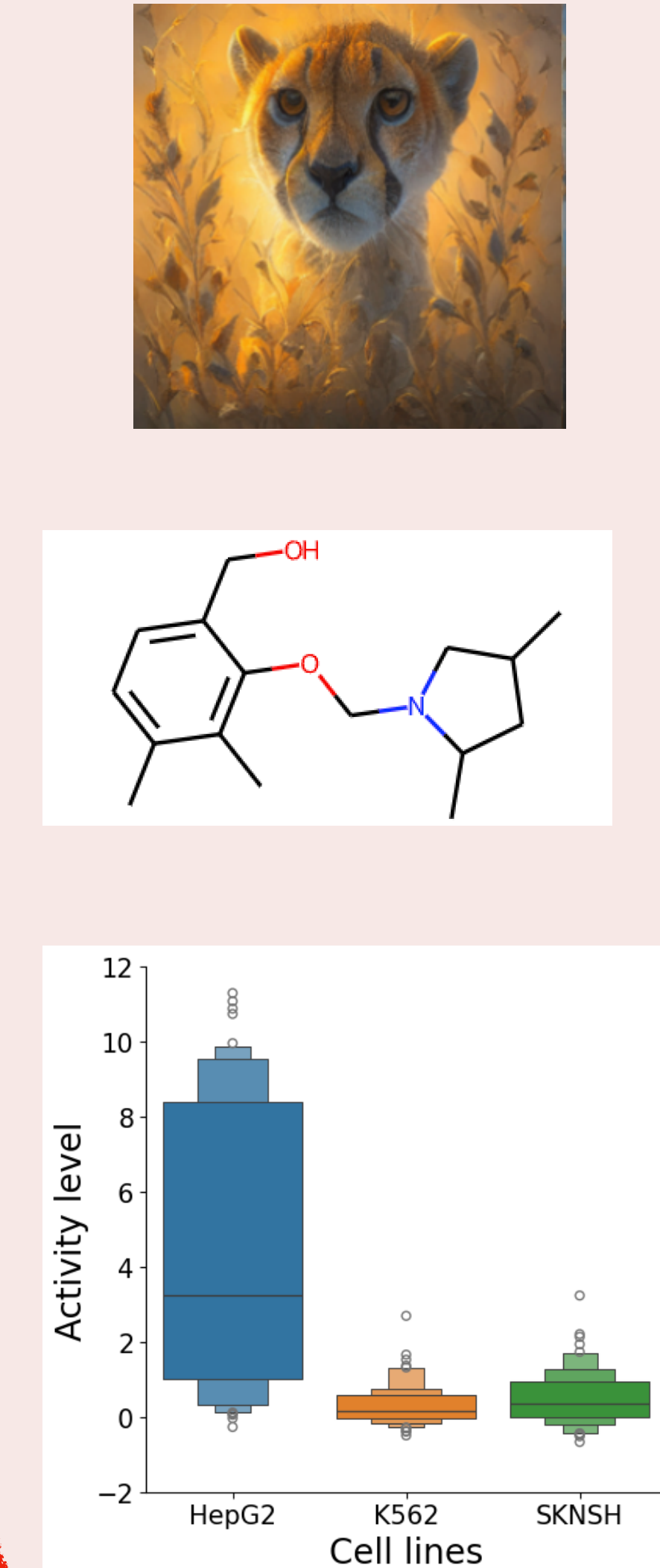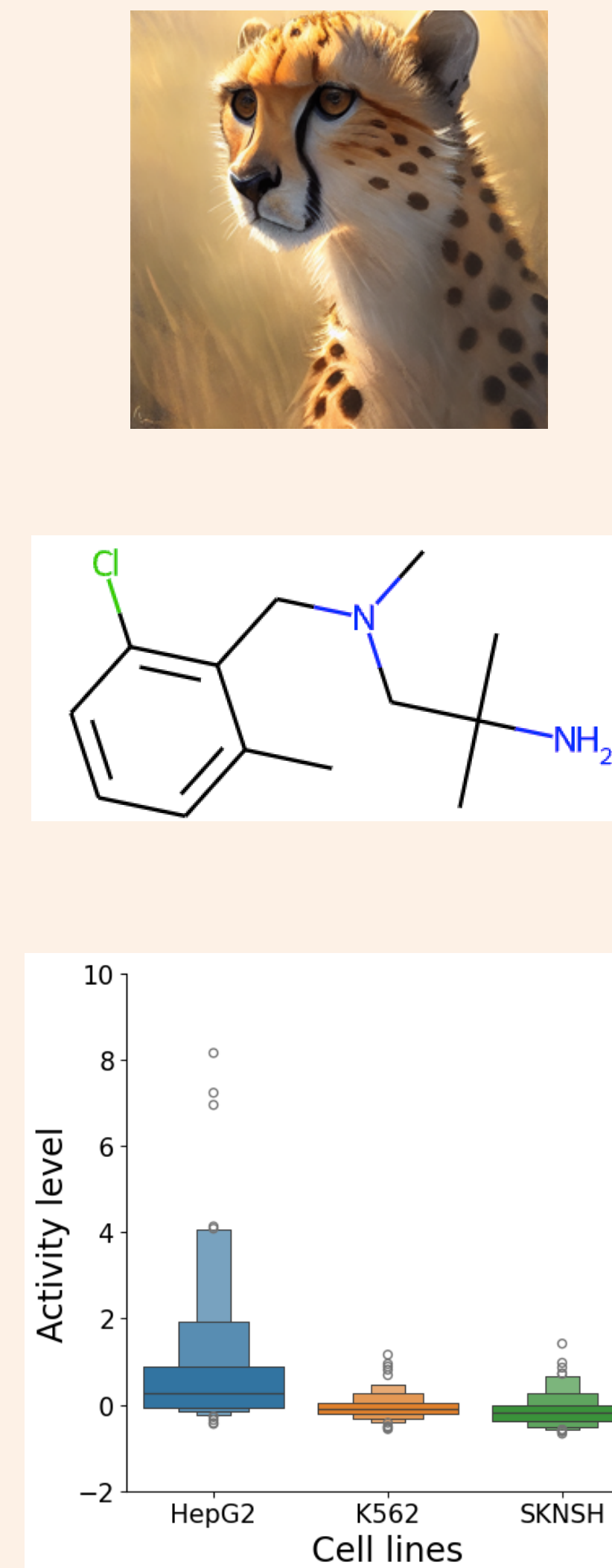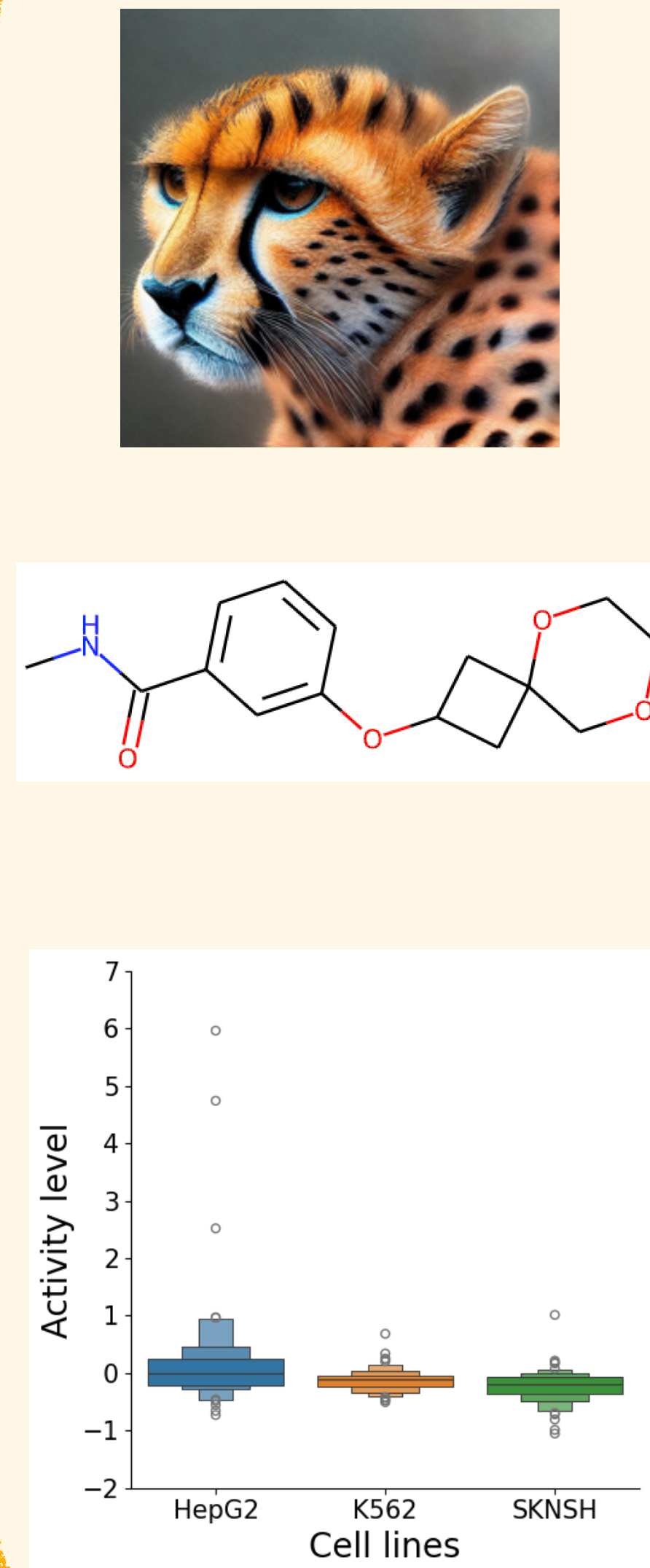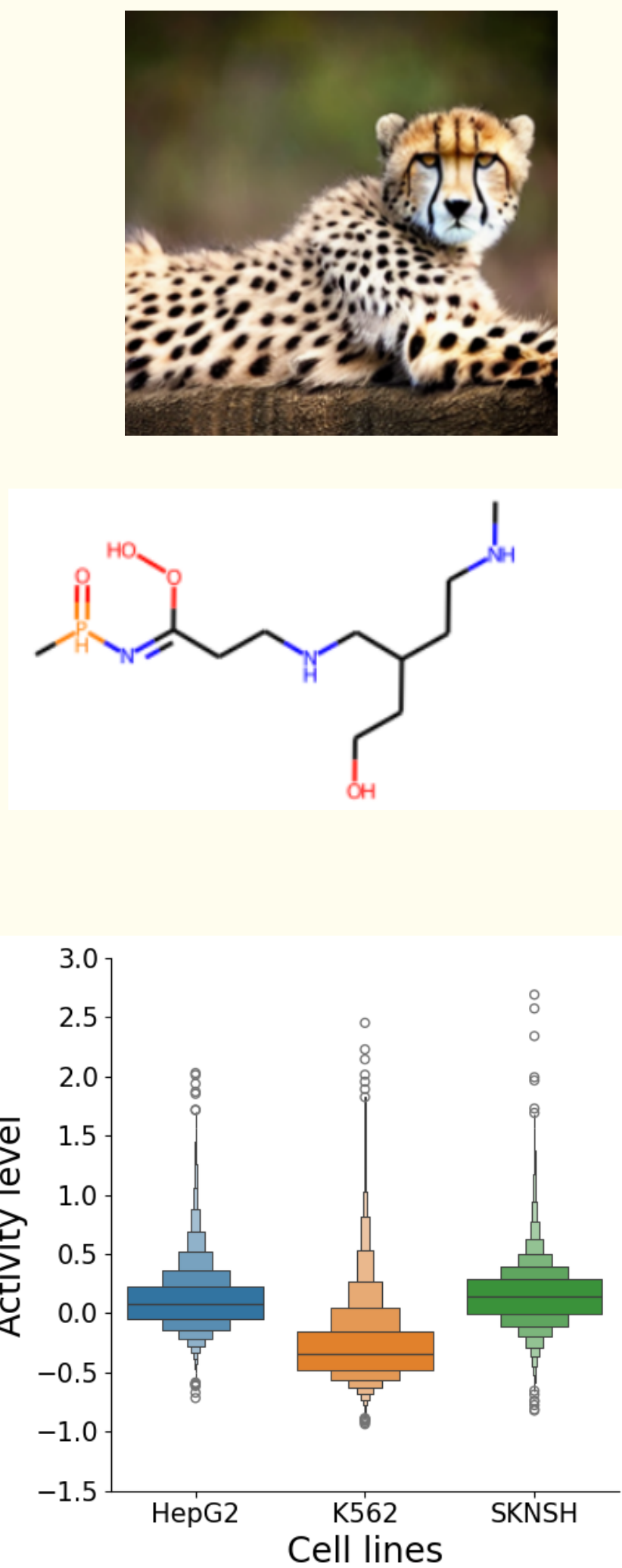DNAs → Cell-specificity

**Pre-trained diffusion models**

**Fine-tuned diffusion models**

**RL**  **RL**  **RL**

Images

Molecules

DNAs

Images with **high aesthetic score**

Molecules with **high QED**

DNAs with **high cell-specificity**