**Table S1**. Using drug design specifications to select candidate molecule drugs for each biomarker of FTD. (+) denotes overexpression; (-) denotes low expression in FTD.

**Biomarker TAU (+)**

|  |  |  |  |
| --- | --- | --- | --- |
| Drug | Regulation Ability  (L100) | Sensitivity  (PRISM) | Toxicity  (LC50, mol/kg) |
| TTNPB | -0.1753 | 0.2480 | 5.823 |
| probucol | -0.9209 | -0.2931 | 7.007 |
| clobenpropit | -0.2041 | 0.0416 | 4.223 |
| guanaben-acetate | -0.3340 | -0.5925 | 4.781 |

**Biomarker GSK-3β (+)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Regulation Ability**  **(L100)** | **Sensitivity**  **(PRISM)** | **Toxicity**  **(LC50, mol/kg)** |
| **primidone** | -0.5060 | -0.2188 | 2.96 |
| **clobenpropit** | -0.1006 | 0.0416 | 4.223 |
| **biotin** | -0.8255 | 0.3108 | 2.998 |
| **ticlopidine** | -1.5229 | 0.0301 | 5.062 |

**Biomarker STAT3 (+)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Regulation Ability**  **(L100)** | **Sensitivity**  **(PRISM)** | **Toxicity**  **(LC50, mol/kg)** |
| **TTNPB** | -0.0437 | 0.2480 | 5.823 |
| **probucol** | -0.3772 | -0.2931 | 7.007 |
| **andarine** | -0.4512 | 0.4421 | 4.204 |
| **racecadotril** | -2.5401 | -0.1831 | 4.826 |

**Biomarker *ATG5* (-)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Regulation Ability**  **(L100)** | **Sensitivity**  **(PRISM)** | **Toxicity**  **(LC50, mol/kg)** |
| **guanfacine** | 0.1364 | 0.1803 | 3.35 |
| **iodophenpropit** | 0.5446 | -0.0032 | 4.94 |
| **clobenpropit** | 0.4914 | 0.0416 | 4.223 |
| **saclofen** | 1.3414 | 0.0768 | 3.171 |

**Biomarker WDR41 (+)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Regulation Ability**  **(L100)** | **Sensitivity**  **(PRISM)** | **Toxicity**  **(LC50, mol/kg)** |
| **decitabine** | -0.2658 | -0.8886 | 2.268 |
| **iodophenpropit** | -1.6218 | -0.0032 | 4.94 |
| **fipronil** | -0.3577 | -0.3275 | 5.534 |
| **primaquine** | -0.3696 | -0.2448 | 3.236 |

**Biomarker RIPK1 (+)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug** | **Regulation Ability**  **(L100)** | **Sensitivity**  **(PRISM)** | **Toxicity**  **(LC50, mol/kg)** |
| **TTNPB** | -0.0897 | 0.2480 | 5.823 |
| **iodophenpropit** | -0.6459 | -0.0032 | 4.94 |
| **probucol** | -0.0797 | -0.2931 | 7.007 |
| **andarine** | -0.5063 | 0.4421 | 4.204 |