



Figure S1 Diagram of the scRNA-sequencing quality control assessment. mt, mitochondrion; scRNA, single-cell RNA.

```

OrderedDict([('net.0.linear.weight', tensor([[ -1.0972e-02,  1.7409e-01,  7.2524e-03, -7.2009e-02, -
4.8281e-02,
          -9.0431e-01,  2.5324e-03, -3.7979e-01, -2.1511e-01,  1.2384e-01,
          7.7168e-02, -1.0982e-01,  2.3581e-01,  3.7923e-01, -2.5450e-01,
          1.2251e-01,  2.4572e-01, -1.8195e-01, -4.8877e-01,  3.0709e-01,
          4.1247e-01, -4.1888e-01],
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          4.2618e-01, -5.6406e-01, -2.9567e-02,  5.5128e-01, -5.1456e-02,
          4.0879e-01, -3.8921e-01, -2.7113e-01, -2.8765e-01,  1.6521e-01,
          -5.4634e-02,  5.6306e-01,  2.5797e-02,  3.2999e-01, -6.2749e-02,
          -1.0241e-01,  2.3098e-01],
[  4.7566e-02,  8.5278e-02,  4.1182e-01, -4.7199e-01, -2.9571e-01,
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          3.6726e-01,  2.5954e-01, -6.8132e-01,  3.2622e-01,  1.4902e-01,
          2.5067e-02,  2.5486e-01,  2.0638e-02,  2.2169e-02, -4.0551e-01,
          -7.2895e-01, -1.2284e-01],
[  1.5333e-01,  1.9422e-01, -3.5305e-01, -2.4965e-01,  1.9355e-01,
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          2.7691e-02,  1.8657e-01, -3.4875e-01,  6.4056e-02, -5.5066e-02,
          -1.0989e-01, -4.5576e-01,  3.9384e-01,  1.2934e-01,  3.0811e-01,
          2.3798e-01, -1.2880e-01],
[ -9.1265e-02,  7.2174e-03,  7.6896e-03,  6.8058e-02,  3.4364e-01,
          9.6448e-02, -5.8478e-01, -3.9713e-03,  5.6407e-01, -1.2035e-01,
          3.4153e-01, -1.0233e-01,  4.0547e-01,  6.7917e-01,  2.1210e-01,
          4.1887e-01,  4.4980e-01,  3.6707e-01, -2.2417e-01,  1.9292e-02,
          -3.2334e-01, -4.7982e-01],
[  4.7541e-01, -5.2474e-01, -3.3027e-02, -1.7315e-01, -6.1648e-01,
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          -2.1449e-01, -2.1853e-01, -6.7910e-01,  4.2442e-01,  2.0384e-01,
          2.2026e-01, -4.2392e-02,  8.2961e-01, -2.1595e-01,  4.4690e-01,

```

Figure S2 The parameters of neural network model for predicting immunotherapy response in OV. OV, ovarian cancer.