### Supplementary Table 1. Zeta potential of C-SeQDs and A-SeQDs in different solutions.

| Solutions | DMEM    | PBS     | ddH₂O    |
|-----------|---------|---------|----------|
| A-SeQDs   | -18.8mV | -21.4mV | -31.4mV  |
| C-SeQDs   | -19.3mV | -20.2mV | -30.3mV  |

### Supplementary Table 2. Demographic data for individuals with or without PAH.

| ID | Gender | Ages (years old) | PAH |
|----|--------|------------------|-----|
| 1  | Female | 78               | -   |
| 2  | Male   | 66               | +   |
| 3  | Male   | 79               | -   |
| 4  | Female | 77               | -   |
| 5  | Male   | 85               | +   |
| 6  | Female | 87               | +   |
| 7  | Male   | 61               | +   |
| 8  | Female | 79               | -   |
| 9  | Male   | 83               | -   |
| 10 | Male   | 68               | -   |
| 11 | Male   | 78               | +   |
| 12 | Male   | 79               | -   |
| 13 | Female | 83               | +   |
| 14 | Female | 88               | +   |
| 15 | Male   | 84               | -   |
| 16 | Female | 78               | +   |
| 17 | Male   | 76               | +   |
| 18 | Female | 75               | -   |
| 19 | Male   | 69               | +   |
| 20 | Male   | 66               | -   |
| 21 | Female | 72               | -   |
| 22 | Male   | 68               | +   |
| 23 | Female | 63               | -   |