**Supplementary File 2. Demographics of human patients.**

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| --- | --- | --- | --- | --- | --- | --- |
|  | Patient ID | Diagnosis | Gender | Age at death | PMI (hrs) | C9orf72 mutation |
| Control | 70 | Multiple medical problems | Female | 59 | 7 | No |
|  | 91181 | Cardiac arrest | Male | 53 | 12 | No |
|  | 91268 | Cardiac failure | Male | 76 | 12 | No |
|  | 73 | Cardiovascular failure | Male | 74 | 4 | No |
| C9-ALS | 88 | FTD/ALS | Male | 59 | 10 | Yes |
|  | 67 | Familial ALS | Male | 47 | 5 | Yes |
|  | 1629 | FTD/ALS | Female | 55 | NA | Yes |
|  | 473111 | ALS | Male | 47 | NA | Yes |