### Table S1. Injected activity (IA, MBq) and injected mass (IM, nmol) doses for PET studies of [18F]CPFPX before and different days after cerebral ischemia in rats. Average data are presented as mean±SD.

| [18F]CPFPX IA/IM | #1 IA/I M | #2 IA/I M | #3 IA/I M | #4 IA/I M | #5 IA/I M | #6 IA/I M | #7 IA/I M | AVG IA/I M |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| D0               | 53.62/0.11| 73.26/0.15| 76.30/0.16| 74.41/0.25| 63.20/0.33| 64.01/0.54| 68.82/1.08| 67.80±8.14/0.37±0.34 |
| D1               | 76.22/0.17| 39.90/0.19| 72.52/0.26| 72.89/0.46| 63.64/0.64| 72.15/0.79| 54.76/0.88| 65.25±13.11/0.47±0.29 |
| D3               | 81.31/0.15| 77.33/0.16| 67.71/0.23| 68.45/0.37| 61.42/0.53| 74.37/1.03| 62.16/1.39| 64.48±7.55/0.56±0.48 |
| D7               | 55.13/0.11| 68.08/0.24| 76.59/0.32| 68.45/0.40| 72.15/0.74| 76.96/1.26| 64.01/1.68| 68.77±7.62/0.68±0.58 |
| D14              | 80.17/0.28| 61.79/0.13| 63.64/0.22| 61.79/0.35| 60.68/0.55| 69.93/1.08| 66.60/1.70| 66.37±6.89/0.61±0.57 |
| D21              | 70.67/0.16| 68.08/0.17| 66.60/0.27| 35.52/0.32| 67.71/0.40| 66.97/1.11| 55.50/1.48| 61.58±12.46/0.56±0.52 |
| D28              | 69.19/0.15| 62.90/0.21| 72.52/0.26| 70.67/0.36| 66.60/0.38| 63.64/0.59| 68.82/1.76| 67.76±3.56/0.53±0.56 |

### Table S2. Injected activities (IA, MBq) and injected mass (IM, nmol) doses for PET studies of [18F]DPA-714 in DPCPX, vehicle and ENBA-treated ischemic rats. Average data are presented as mean±SD.

| [18F]DPA-714 IA/IM | #1 IA/I M | #2 IA/I M | #3 IA/I M | #4 IA/I M | #5 IA/I M | #6 IA/I M | #7 IA/I M | AVG IA/I M |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| DPCPX               | 81.03/0.26| 74.37/0.37| 79.55/0.69| 67.71/0.88| 62.16/1.40| 62.90/1.52| 40.70/1.80| 66.92±13.79/0.99±0.59 |
| Vehicle             | 69.19/0.21| 79.55/0.48| 75.85/0.61| 62.90/0.88| 71.78/0.90| 80.29/1.03| 65.12/1.77| 72.10±6.81/0.84±0.49 |
| ENBA                | 87.69/0.42| 66.23/0.43| 75.85/0.50| 68.45/0.57| 64.75/1.43| 64.75/1.54| N/A       | 71.29±9.04/0.82±0.52 |

### Table S3. Injected activity (IA, MBq) doses for PET studies of [18F]FLT in DPCPX, vehicle and ENBA-treated ischemic rats. Average data are presented as mean±SD.

| [18F]FLT IA | #1 IA | #2 IA | #3 IA | #4 IA | #5 IA | #6 IA | #7 IA | AVG IA |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|
| DPCPX       | 54.60 | 57.22 | 59.57 | 49.38 | 51.37 | 49.41 | 48.33 | N/A    |
| Vehicle     | 54.22 | 49.82 | 50.84 | 51.45 | 56.11 | 57.50 | 55.23 | 54.10  |
| ENBA        | 60.81 | 55.22 | 58.1  | 54.92 | 57.91 | 58.36 | N/A   | N/A    |

The data presented here are mean±SD values for the injected activity (IA, MBq) and injected mass (IM, nmol) doses for PET studies of [18F]CPFPX, [18F]DPA-714, and [18F]FLT in DPCPX, vehicle, and ENBA-treated ischemic rats.