

| Variable                    | Kruskal-Wallis | VEH_SS vs CNEURO1_ESC<br>Dunn test | VEH_SS vs VEH_ESC<br>Dunn test | CNEURO1_ESC vs VEH_ESC<br>Dunn test | Kruskal-Wallis<br>Bonferroni | Kruskal-Wallis<br>FDR |
|-----------------------------|----------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|-----------------------|
| 0 Area_soma                 | 0.000001       | 0.186761                           | 0.000760                       | 0.000001                            | 0.000031                     | 0.000002              |
| 1 Perimeter_soma            | 0.000006       | 0.281970                           | 0.001261                       | 0.000005                            | 0.000204                     | 0.000009              |
| 2 Circularity_soma          | 0.041986       | 0.615066                           | 0.147294                       | 0.042278                            | 1.000000                     | 0.052482              |
| 3 soma_compactness          | 0.000038       | 0.293540                           | 0.003921                       | 0.000028                            | 0.001326                     | 0.000054              |
| 4 soma_orientation          | 0.128947       | 0.246659                           | 0.932975                       | 0.246659                            | 1.000000                     | 0.155626              |
| 5 soma_feret_diameter       | 0.000038       | 0.404174                           | 0.002306                       | 0.000036                            | 0.001346                     | 0.000054              |
| 6 soma_eccentricity         | 0.958721       | 1.000000                           | 1.000000                       | 1.000000                            | 1.000000                     | 0.968275              |
| 7 soma_aspect_ratio         | 0.585151       | 1.000000                           | 1.000000                       | 1.000000                            | 1.000000                     | 0.640009              |
| 8 End_Points                | 0.000000       | 0.048832                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 9 Junctions                 | 0.000000       | 0.070639                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 10 Branches                 | 0.000000       | 0.093644                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 11 Initial_Points           | 0.000005       | 0.186316                           | 0.002159                       | 0.000003                            | 0.000165                     | 0.000008              |
| 12 Total_Branches_Length    | 0.000000       | 0.054115                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 13 ratio_branches           | 0.000003       | 0.004427                           | 0.000002                       | 0.017500                            | 0.000111                     | 0.000006              |
| 14 polygon_area             | 0.000000       | 0.009662                           | 0.000000                       | 0.000401                            | 0.000001                     | 0.000000              |
| 15 polygon_perimeters       | 0.000000       | 0.009095                           | 0.000000                       | 0.000386                            | 0.000001                     | 0.000000              |
| 16 polygon_compactness      | 0.000000       | 0.020820                           | 0.000000                       | 0.000450                            | 0.000005                     | 0.000000              |
| 17 polygon_eccentricities   | 0.457649       | 0.654597                           | 0.960257                       | 0.960257                            | 1.000000                     | 0.516700              |
| 18 polygon_feret_diameters  | 0.000000       | 0.168075                           | 0.000001                       | 0.000048                            | 0.000013                     | 0.000001              |
| 19 polygon_orientations     | 0.926062       | 1.000000                           | 1.000000                       | 1.000000                            | 1.000000                     | 0.968275              |
| 20 cell_area                | 0.000000       | 0.188515                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 21 cell_perimeter           | 0.000000       | 0.018595                           | 0.000000                       | 0.000004                            | 0.000000                     | 0.000000              |
| 22 cell_circularity         | 0.000005       | 0.010995                           | 0.000003                       | 0.010995                            | 0.000190                     | 0.000009              |
| 23 cell_compactness         | 0.000004       | 0.031823                           | 0.019449                       | 0.000002                            | 0.000143                     | 0.000007              |
| 24 cell_orientation         | 0.968275       | 1.000000                           | 1.000000                       | 1.000000                            | 1.000000                     | 0.968275              |
| 25 cell_feret_diameter      | 0.000000       | 0.175674                           | 0.000001                       | 0.000048                            | 0.000014                     | 0.000001              |
| 26 cell_eccentricity        | 0.224254       | 0.356652                           | 0.818621                       | 0.370875                            | 1.000000                     | 0.261630              |
| 27 cell_aspect_ratio        | 0.015259       | 0.146237                           | 0.358854                       | 0.014978                            | 0.534081                     | 0.019781              |
| 28 sholl_max_distance       | 0.000000       | 0.004433                           | 0.000000                       | 0.001235                            | 0.000002                     | 0.000000              |
| 29 sholl_crossing_processes | 0.000000       | 0.060802                           | 0.000000                       | 0.000000                            | 0.000000                     | 0.000000              |
| 30 sholl_num_circles        | 0.000000       | 0.003500                           | 0.000000                       | 0.000840                            | 0.000001                     | 0.000000              |
| 31 cell_solidity            | 0.000842       | 0.017825                           | 0.406097                       | 0.001183                            | 0.029463                     | 0.001133              |
| 32 cell_convexity           | 0.000000       | 0.184147                           | 0.000000                       | 0.000001                            | 0.000000                     | 0.000000              |
| 33 UMAP_1                   | 0.000000       | 0.072902                           | 0.000000                       | 0.000002                            | 0.000000                     | 0.000000              |
| 34 UMAP_2                   | 0.000002       | 0.129943                           | 0.000003                       | 0.000283                            | 0.000081                     | 0.000004              |