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(**Batch processing for deciding which ROIs to discard from axon or dendrite imaging
sessions. Input all {date,mouse,session} entries into "dateMouseSessionList"**)

dateMouseSessionList = DeleteDuplicates[Join[{}]];

In[ ]:= exp = 1;

In[ ]:= While[exp ≤ Length[dateMouseSessionList], date = dateMouseSessionList[[exp, 1]];
mouse = dateMouseSessionList[[exp, 2]];
sessionNum = dateMouseSessionList[[exp, 3]];
duplicates =
  ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/", ToString@date,
    "/", ToString@mouse, "/", ToString@sessionNum, "/", ToString@date, "_",
    ToString@mouse, "_", ToString@sessionNum, "_", "axonROIDuplicates", ".txt"], "List"];
duplicatesTally = Tally[Flatten[duplicates]];
multDuplicates = DeleteCases[Table[If[duplicatesTally[[n, 2]] ≥ 2,
  duplicatesTally[[n, 1]], Null], {n, 1, Length[duplicatesTally]}], Null];
deletedMultDuplicates = Select[DeleteCases[#, Alternatives[
  Sequence @@ multDuplicates]] & /@ duplicates, UnsameQ[#, {}] &];
singleDuplicates = DeleteCases[Table[If[Length[deletedMultDuplicates[[n]]] == 1,
  Null, Extract[deletedMultDuplicates[[n]], {RandomChoice[{1, 2}]}]],
  {n, 1, Length[deletedMultDuplicates]}], Null];
discardROIs = Sort[Join[multDuplicates, singleDuplicates]];
Export[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/", ToString@date,
  "/", ToString@mouse, "/", ToString@sessionNum, "/", ToString@date, "_",
  ToString@mouse, "_", ToString@sessionNum, "_", "discardROIs", ".txt"], discardROIs];
exp = exp + 1;
Clear @@ DeleteCases[Names@"`*", "dateMouseSessionList" | "exp"];

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