## How to define the lateral fiducials?



- Consistency is key when using fiducials; collaborative or data mining projects become impossible without accurate position labels.
- Traditionally in EEG, the terms Left/Right PreAuricular (LPA/RPA) are used to refer to the ear fiducials.
- While LPA/RPA are palpable anatomical features, they are difficult to locate in anatomical MR head images.
- To address this issue and allow for MR coregistration, various labs utilize in-house fiducials (unfortunately, some do so while retaining the LPA/RPA label).
- We suggest using the terms: Left Right Helix-Tragus Junction (LHJ RHJ), Left Right Ear canal (LEC REC), Left Right Helix-Scalp Junction (LHS RHS), and Left Right PreAuricular (LPA RPA).
- We strongly recommend the use of the Left | Right Helix-Tragus Junction (LHJ | RHJ) as the get\_chanlocs lateral fiducials, as these are best defined in both 3D and MR head images.
- For a detailed discussion on ear fiducials from the Donders Centre in Nijmegen, please visit: <a href="http://www.fieldtriptoolbox.org/faq/how">http://www.fieldtriptoolbox.org/faq/how</a> are the lpa and rpa points defined/

