```
                    Synchronize LFP (.MAT file) with external
                    Select LFP channel to clean
                    Are artifactual ECG R-peaks visually detectable?
                                    │ Yes
                                    ▼
                    Apply a low-pass filter before cleaning
                                    │
                                    ▼
        Is an external ECG channel available in the external file?
                                              │ Yes
                                              ▼
                    No                 Select it and check alignment
                                       by plotting overlap
                    │                         │
                    ▼                         ▼
                    Detect R-peaks
                    Are they properly detected?
                                    No │
                                       ▼
                    Yes                Set the threshold to a higher
                                       value
                    ▼
        Select one of the three cleaning methods.
        Is the cleaning satisfactory?
    Yes      No │                      Yes │
                ▼                          ▼
        Is there another cleaning      Confirm cleaning and save
        method to test?                cleaned channel
        No │
           ▼
No      Don't clean
```