



![](_page_2_Figure_0.jpeg)

![](_page_3_Picture_0.jpeg)

## Step 2: Identify File to Export

- The files are input before create GUI
- File names must be idenfity in EasyNIRS\_OpeningFcn section.
- Using a global variable "hmr" to save all data
- Is there any field in hmr related to file name?
- $\rightarrow$  hmr.files
- Key in **global hmr** in command window

![](_page_4_Picture_7.jpeg)

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## Step 3: NIRS data format

• Page 4 in HOMER2\_UsersGuide.pdf

### or

- Simply load a \*.nirs file into MATLAB
- load('NIRS\_data\_20130429.nirs','-mat')
- Find out the results of processed results
- procResult.dc (size: 8432 x 3 x 20)
- procResult.dcAvg (size: 730 x 3 x 20 x 2)
- procResult.tHRF (time axis for block average)
- ml: channel order of source-detector pair
- s: event markers

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• 20 channels

Right/left arm

• 2 tasks:

 3 Hb concentrations HbO/ HbR/ Hbtotal

Step 4: Edit the callback function

- 1972 % ---- Executes on button press in exportexcel.
- 1973 = function exportexcel\_Callback(hObject, eventdata, handles)
- 1974 % hObject handle to exportexcel (see GCBO)
  1975 % eventdata reserved to be defined in a future version of MATLAB
- 1975 % eventdata reserved to be defined in a future version of MATLAB
  1976 -% handles structure with handles and user data (see GUIDATA)
- 1970
  - global hmr
  - load \*.nirs data based on the hmr.file.
  - Gather the data you need.
  - Export data as an Excel file.

![](_page_4_Picture_33.jpeg)

![](_page_4_Picture_34.jpeg)

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