# Guide to using the 'exportBruker.R' file

## Introduction

This notebook shows you how to use the functions in the R file `exportBruker.R`. The first few sections (**Checking install**, **Basic Usage** and **Setup**) are aimed at people who simply want to export a Bruker-format dataset to a .csv file. The steps described there should get you going quickly 90% of the time. The remaining sections describe the functions in more detail.

## Basic Usage.

Assuming you've set up R or RStudio, the functions in the file `exportBruker.R` allow you to create csv files from Bruker data in just a few lines. You can run this code from any directory in the system as long as you know where your Bruker file is, for example:

```
source("exportBruker.R")
exportDataSetCsv(loadBruker("~/Desktop/20140307_SH_Womble/"))
```

### What the code does

The code above does the following: - Loads the functions and packages needed (using `source(...)`) - Loads the Bruker dataset (using `loadBruker()`) - Exports the Bruker dataset to a subdirectory called `csv` (using `exportDataSetCsv(...)`). Note that the subdirectory will be created if it doesn't exist already.

## Setting up

## Paths to the Bruker folder

If all you want to do is make a csv, then you needn't worry about that - the only thing you need to change to run this on your code is the part within the quotes, which is the *path* to the directory where the Bruker data is held. Other example paths might be:

- `"C:\\Users/sjh/Desktop/BrukerData/20140307_SH_Womble"`: This is the *absolute path* to the folder on a windows machine
- `"~/../Desktop/BrukerData/20140307_SH_Womble"`: This is the path within a users directory space
- `"../../Desktop/BrukerData/20140307_SH_Womble"`: This is the *relative path*, i.e. the route to the Bruker folder from wherever you are running R from.

Note

- the use of `/` in specifying the path, as opposed to the `\` symbol that windows normally uses!
- If you want to use `\`, then you must type `\\` because the backslash is an *escape character*

## More Details

Since this is an R notebook, the R code you see is runnable from within R Studio! See https://bookdown.org/yihui/rmarkdown/notebook.html for more details.

## Load the functions