

## hMRI toolbox team meeting

"(What's the story) Aftern of glory"



## "Cigarette and alcohol"



## Key survival info

- Building doors open with a badge... don't be locked out!
- Coffee & sweets, in the room
- Wifi access
  - Eduroam should/may work
  - Guest network
    - $\rightarrow$  Id **f044109** & pwd **sUM>G6yu**
- Dinner in town tonight, who ?

## "Don't look back in anger"



## Originally "Voxel-Based Quantification", aka. VBQ, toolbox

- Some code from 2008 (C. Hutton on Blmap), then bits and pieces added.
- 1<sup>st</sup> release (public?) in 2011, around Bogdan's paper (230 citations)
- Started versioning (with SVN) in 2014(?), around Martina's paper (225 citations)

### Original contributors (from names in code)

- J. Ashburner, E. Balteau, B. Draganski, G. Helms, C. Hutton, F. Kherif, A. Lutti, C. Phillips, N. Weiskopf
- ▶ Where is M.F. Callaghan ???

## "Live forever"



### Now the hMRI toolbox, based on VBQ code...

- Hosted on Github, local then international,
  - 1st recorded commit on GitHub (actually SVN) on October 20, 2014
  - 1<sup>st</sup> public beta (v0.1.0) release on November 23, 2018
  - 1<sup>st</sup> public (v0.2.0) release on December 21, 2018
  - 1134 commits, 16 releases, 44 forks, 29 branches, 61 PRs (53 closed)

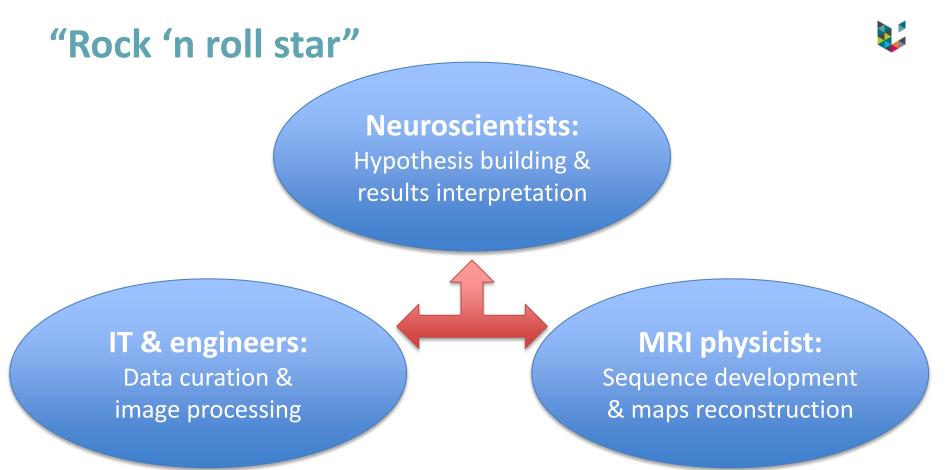
#### More contributors

- J. Ashburner, E. Balteau, B. Draganski, G. Helms, C. Hutton, F. Kherif, A. Lutti, C. Phillips, N. Weiskopf
- E. Reimer, L. Edwards, P. Scheibe, M.F. Callaghan, B.E. Ugurcan, T. Leuritz,
  N. Beliy, et al.

## "Wonderwall"



- In 2018, presentations at conferences
  - Joint Annual Meeting ISMRM-ESMRMB (https://hdl.handle.net/2268/225763)
  - Organization for Human Brain Mapping Annual Meeting (https://hdl.handle.net/2268/225361)
- In 2019, 2 papers in
  - NeuroImage, "hMRI A toolbox for quantitative MRI in neuroscience and clinical research" (134 citations)
  - Data in Brief, "Example dataset for the hMRI toolbox" (19 citations)
- Some more stuff
  - Lorio et al. "New tissue priors for improved automated classification of subcortical brain structures on MRI", NeuroImage, 2016 (85 citations)
  - Lutti et al. "Restoring statistical validity in group analyses of motion-corrupted MRI data", Human Brain Mapping, 2022 (13 citations)



Each field has his own constraints and interests!

## "The masterplan"



### **Objectives**

- More advanced acquisition techniques
- Better and easier to use reconstruction tools
- Improved image processing, spatial and statistics

### Other objectives?

- Open data
- Education & communication
- Tool spreading

## "Champagne supernova"



### Meetings & activities

- October 16-17, 2024, "hMRI meeting" here at GIGA CRC Human Imaging, Uliège, Belgium
- September 18-19, 2025, "SPM Homecoming" meeting, i.e. developers and contributors, at FIL, London, UK

Any other international workshop/course ?



# Hoy, what'cha waitin' fur?!

