

Project « intense_bias »

Who did it: An amazing team of 5 people:

David Meunier (INT, AMU)

Julien Sein (Centre IRMF, INT, AMU)

Sneža Todorović (Jagiellonian University, Kraków)

Shailesh Appukuttan (CRMBM & INT, AMU)

Khouloud Benzzaouia (CRMBM)

Ponctual contributions: Guillaume Auzias, Steven Jia, Arnaud Le Trotter, Katherine Bryant

Where it is:

bhg24-marseille_intensebias on mattermost



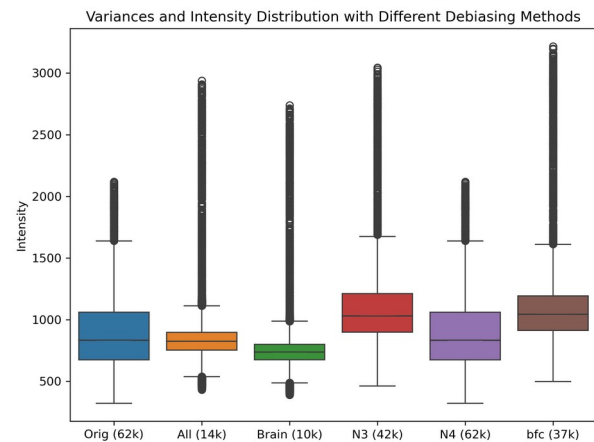
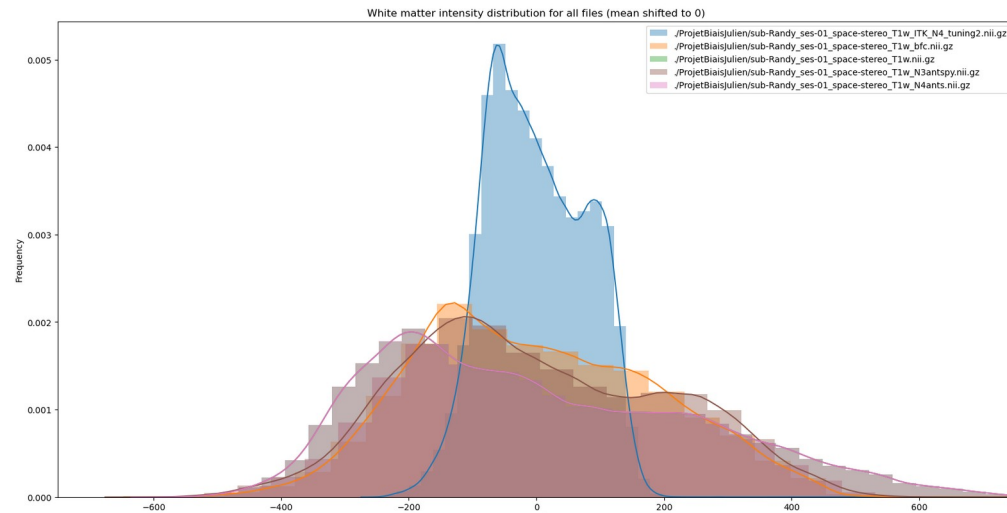
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What we did :

1a) Testing several bias field corrections
on « easy images » (brain image after manual crop)
(David, Shailesh)

- ANTs : N4BiasFieldCorrection
- ANTSpy : n3_bias_field_correction
- BrainSuite bfc
- FSL fast
- SimpleITK – N4BiasFieldCorrectionImageFilters

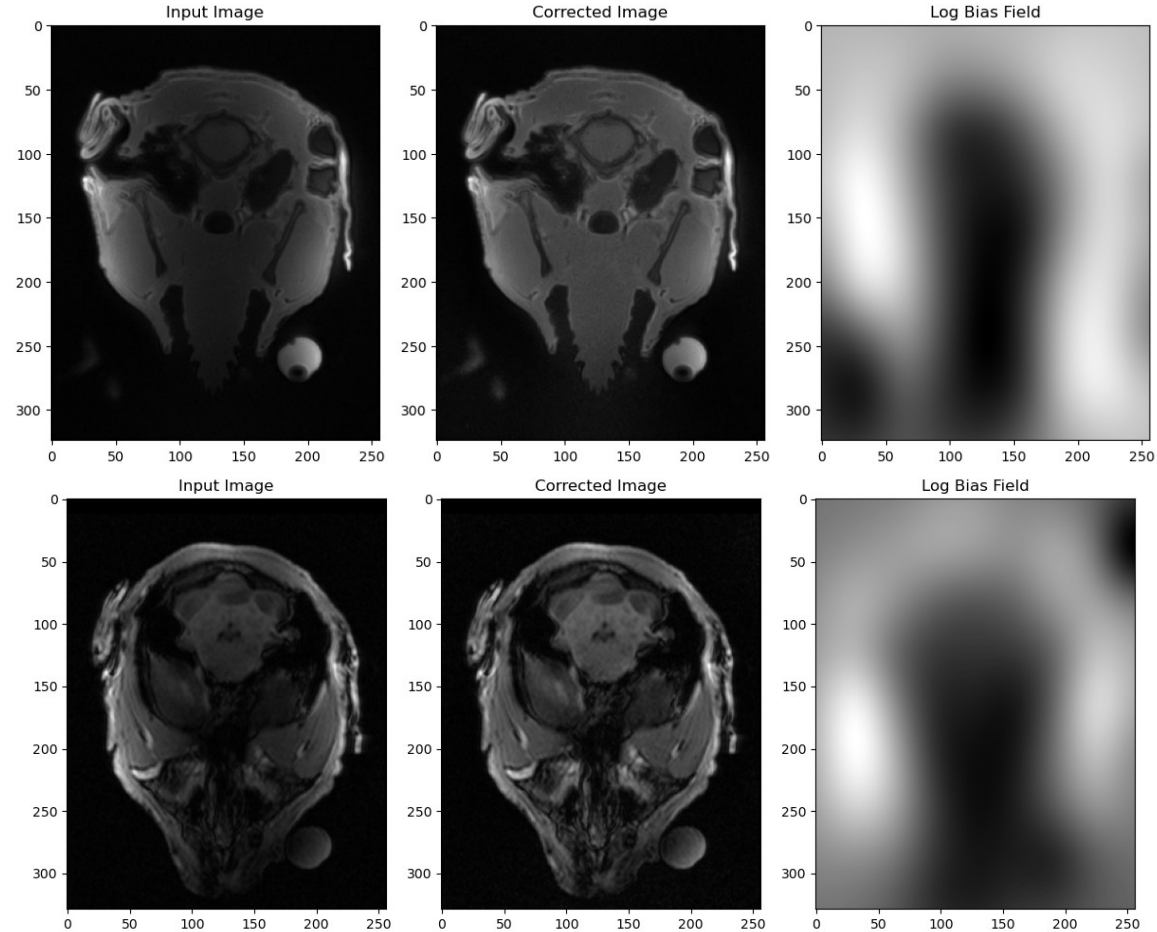
1b) Scripts to assess variance in white matter
in python (Sneža, Shailesh), matlab (Khouloud)



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What we did :

2) Testing bias field corrections (Shailesh)
on «full images» (original image)

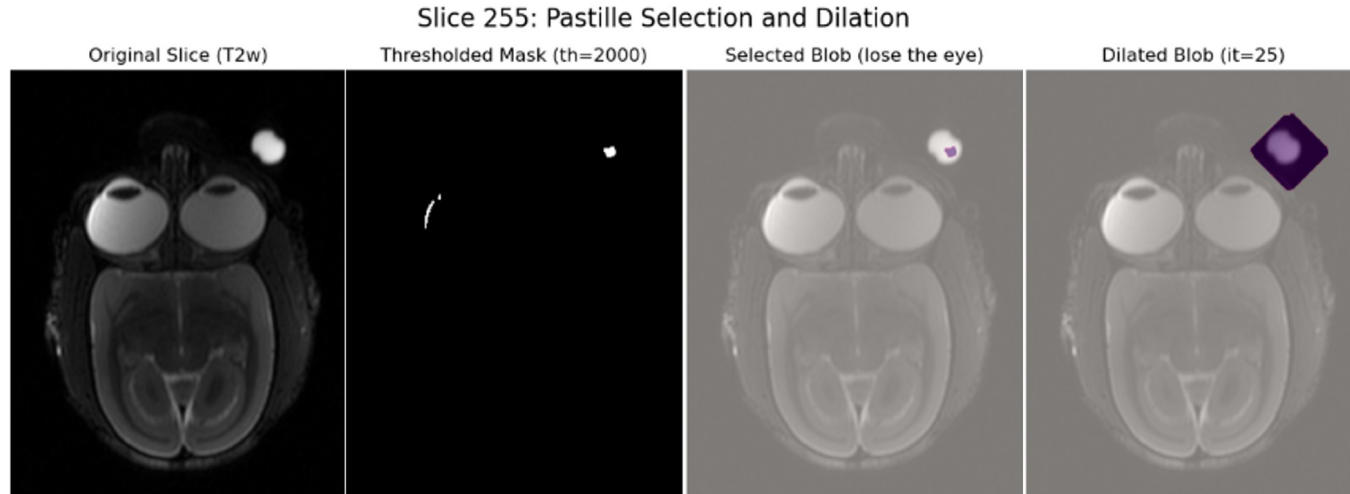
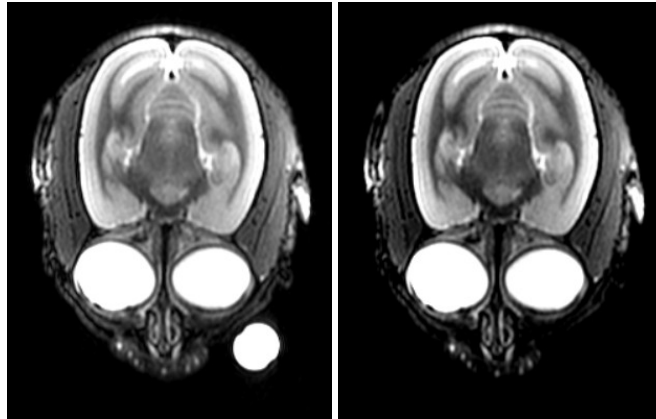


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What we did :

3) « Automated » method to remove laterality pastille :

low threshold and giant component mask (Khouloud)



upper threshold to keep only the pastille (Snežha)