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credit: Viktor Pfaffenrot

\\USER\VPF\hippocampus_VASO\functional\VPF_3depi_hippo_BOLD_fmap_memory_run1_PA

TA: 0:35 PM: REF Voxel size: 0.9×0.9×0.9 mmPAT: 3 Rel. SNR: 1.00 : ep 63110fe

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	P >> A
AutoAlign	---
Slab Scale	0 %
Slices per slab	38
FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
TR	58.3 ms
TE 1	22.20 ms
Averages	1
Multi-echo Shots	1
Filter	None
Coil elements	AC

Contrast - Common

TR	58.3 ms
TE 1	22.20 ms
Multi-echo spacing	51.97 ms
MTC	Off
Magn. preparation	None
TI	900 ms
Flip angle 1	13 deg
Flip angle 2	13 deg
Fat suppr.	Water excit. normal

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	13
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s
Pause after meas. 10	0.0 s
Pause after meas. 11	0.0 s
Pause after meas. 12	0.0 s

Resolution - Common

FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
Base resolution	180
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	54
Acc. factor 3D	1
Ref. lines 3D	24
CAIPI 3D Shift	0
Reference Scan Mode	EPI/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	P >> A
Slab Scale	0 %
Slices per slab	38
FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
TR	58.3 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	P >> A
AutoAlign	---
Initial Position	L0.0 P10.0 F13.9
L	0.0 mm
P	10.0 mm
F	13.9 mm
Initial Rotation	-180.00 deg
Initial Orientation	T > C
T > C	25.2

Geometry - AutoAlign

> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Water excit. normal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.0 P10.5 F13.9 mm
! Orientation	T > C25.2
! Rotation	270.00 deg
! R >> L	162 mm
! A >> P	185 mm
! F >> H	44 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	297.166172 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	1.04 ms
Bandwidth	1068 Hz/Px

Sequence - Part 2

EPI factor	49
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

Sequence - pTX Pulses

Sequence - Special

PATRef FA	9 deg
RF duration	260 us
RF BWT product	9
Ernst T1	2100 ms
PATRef prep. shots	10
Volume dummy shots	0
Noise dummy shots	-1
Integrated PC	On
Invert PE	Off
Min. TE if PF	On
Alternate RO	Off
UNFOLD	Off
Phase Correction	per Shot
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	Off

Sequence - Assistant

Mode	Off

\\USER\VPF\hippocampus_VASO\functional\VPF_3depi_hippo_BOLD_memory_run1

TA: 18:09 PM: FIX Voxel size: 0.9×0.9×0.9 mmPAT: 3 Rel. SNR: 1.00 : ep 63110fe

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	On
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	A >> P
AutoAlign	---
Slab Scale	0 %
Slices per slab	38
FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
TR	58.3 ms
TE 1	22.20 ms
Averages	1
Multi-echo Shots	1
Filter	None
Coil elements	AC

Contrast - Common

TR	58.3 ms
TE 1	22.20 ms
Multi-echo spacing	51.97 ms
MTC	Off
Magn. preparation	None
TI	900 ms
Flip angle 1	13 deg
Flip angle 2	13 deg
Fat suppr.	Water excit. normal

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	489
Pause after meas.	0.0 s

Resolution - Common

FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
Base resolution	180
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	54
Acc. factor 3D	1
Ref. lines 3D	24
CAIPI 3D Shift	0
Reference Scan Mode	EPI/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	A >> P
Slab Scale	0 %
Slices per slab	38
FoV read	162 mm
FoV phase	110.0 %
Slice thickness	0.90 mm
TR	58.3 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	L0.0 P10.0 F13.9 mm
Orientation	T > C25.2
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P10.0 F13.9
L	0.0 mm
P	10.0 mm
F	13.9 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	25.2
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Water excit. normal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	Isocenter
! Orientation	Transversal
! Rotation	0.00 deg
! A >> P	263 mm
! R >> L	350 mm
! F >> H	350 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	297.166172 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	On
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Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.04 ms
Bandwidth	1068 Hz/Px

Sequence - Part 2

EPI factor	49
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

Sequence - pTX Pulses

Sequence - Special

PATRef FA	9 deg
RF duration	260 us
RF BWT product	9
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PATRef prep. shots	10
Volume dummy shots	0
Noise dummy shots	-1
Integrated PC	On
Invert PE	Off
Min. TE if PF	On
Alternate RO	Off
UNFOLD	Off
Phase Correction	per Shot
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	Off

Sequence - Assistant

Mode	Off