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Plasticity of visual field representations

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University of Groningen

**Plasticity of visual field
representations**

Joana Carvalho

Cover description

"The smoky brain" designed by Ana Fernandes. This cover represents the plasticity of the visual cortex. The smoke without form, malleable, denotes the visual information from the moment light reaches the retina until it is processed in the visual cortex - similar to the light rays coming from the old cinema projectors. The colors are typical from the retinotopic mapping representations.

Plasticity of visual field representations

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Plasticity of visual field representations

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Monday 6 July 2020, at 11.00 hours

by

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Acronyms

AC Anterior Commissure
AMD Age-related Macular Degeneration
AS Artificial Scotoma
ASPZ Artificial Scotoma Projection Zone
BIC Bayesian Information Criteria
BOLD Blood Oxygen Level Dependent
CI Confidence Interval
CF Connective Field
CH Calinski Harabasz
DB Davies-Bouldin
DWI Diffusion Weighted Imaging
EV Explained Variance
ECM Exponential Contrast Mask
FDR False Discovery Rate
FDT Frequency Doubling Technology
FF Full Field
FI Filling-in
fMRI functional Magnetic Resonance Imaging
GF Gain Field
GB Gabor
HFA Humphrey's Field Analyzer
HRF Haemodynamic Response Function
HSF High Spatial Frequency
LCR Luminance Contrast Retinotopy
LH Left Hemisphere
LO Lateral occipital (cortex)
MD Mean Deviation
MP Micro-Probing
MRI Magnetic Resonance Imaging
MT Middle Temporal
OCR Orientation Contrast Retinotopy

OCT Optical Coherence Tomography
PC Posterior Commissure
PM Predictive Masking
POAG Primary Open Angle Glaucoma
pRNFL peripapillary Retinal Nerve Fiber Layer
pRF population Receptive Field
RF Receptive Field
RGC Retinal Ganglion Cell
ROI Region of Interest
RF Right Hemisphere
S Silhouette
SD Standard Deviation
SS Simulated Scotoma
SAP Standard Automated Perimetry
SF Scotoma Field
SFR Spatial Frequency Retinotopy
SITA Swedish Interactive Threshold Algorithm
SPZ Scotoma Projection Zone
SSPZ Simulated Scotoma Projection Zone
TE Time of echo
TR Time of Repetition
V1 Primary visual area
V2 Secondary visual area
V3 Third visual cortex
VE Variance Explained
VF Visual Field
VFMD Visual Field Mean Deviation
VFD Visual Field Defect