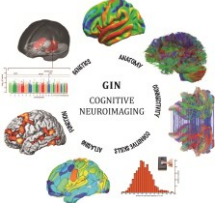


Brain Imaging Databases- GIN experience

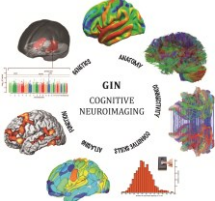
EVA

Objective	Epidemiology of vascular aging
Start date	1994
Type	Long (MR@t4)
N	845
Age	[63, 75]
MRI	1.0T (Siemens)
MRI_T1	3D (0.9 mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)
MRI_DTI	-
FMRI_bold	-
FMRI_tasks	-
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven
Genetics	ApoE, ACE, ...



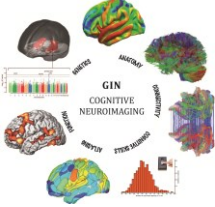
Brain Imaging Databases- GIN experience

	EVA	3-CITIES
Objective	Epidemiology of vascular aging	Risk factors for AD and cognitive decline
Start date	1994	1999
Type	Long (MR@t4)	Long (MR@t0/t4)
N	845	1,924 / 1,442
Age	[63, 75]	[65, 82]
MRI	1.0T (Siemens)	1.5T (Siemens)
MRI_T1	3D (0.9 mm ³)	3D (1 mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)	2D (1-1-3 mm ³)
MRI_DTI	-	-
FMRI_bold	-	-
FMRI_tasks	-	-
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven	MMSE, TMTA/B, Rey5, BentonVRT, Isaacs set, NART, FTT
Genetics	ApoE, ACE, ...	GWAS (540K chip)



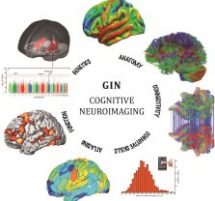
Brain Imaging Databases- GIN experience

	EVA	3-CITIES	DBGIN
Objective	Epidemiology of vascular aging	Risk factors for AD and cognitive decline	Impact of FS on brain anatomy asymmetry
Start date	1994	1999	2002
Type	Long (MR@t4)	Long (MR@t0/t4)	Cross
N	845	1,924 / 1,442	274 (80 LH)
Age	[63, 75]	[65, 82]	[18, 53]
MRI	1.0T (Siemens)	1.5T (Siemens)	1.5T (GE)
MRI_T1	3D (0.9 mm ³)	3D (1 mm ³)	3D (1.3 mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)	2D (1-1-3 mm ³)	2D (1-1-3.5 mm ³)
MRI_DTI	-	-	-
FMRI_bold	-	-	-
FMRI_tasks	-	-	-
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven	MMSE, TMTA/B, Rey5, BentonVRT, Isaacs set, NART, FTT	EI, FTT, FS
Genetics	ApoE, ACE, ...	GWAS (540K chip)	-



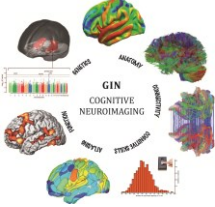
Brain Imaging Databases- GIN experience

	EVA	3-CITIES	DBGIN	BIL&GIN
Objective	Epidemiology of vascular aging	Risk factors for AD and cognitive decline	Impact of FS on brain anatomy asymmetry	Sources of variance in hemispheric specialization
Start date	1994	1999	2002	2009
Type	Long (MR@t4)	Long (MR@t0/t4)	Cross	Cross
N	845	1,924 / 1,442	274 (80 LH)	430 (198 LH)
Age	[63, 75]	[65, 82]	[18, 53]	[19, 57]
MRI	1.0T (Siemens)	1.5T (Siemens)	1.5T (GE)	3.0T (Philips)
MRI_T1	3D (0.9 mm ³)	3D (1 mm ³)	3D (1.3 mm ³)	3D (1 mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)	2D (1-1-3 mm ³)	2D (1-1-3.5 mm ³)	2D (1-1-2 mm ³)
MRI_DTI	-	-	-	2D (2 mm) ³ 42 dir
FMRI_bold	-	-	-	2D (3.75 mm) ³ TR 3sec
FMRI_tasks	-	-	-	Resting state 8 min FunBatHS (16 tasks)
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven	MMSE, TMTA/B, Rey5, BentonVRT, Isaacs set, NART, FTT	EI, FTT, FS	EI, FTT, FS CogBatHS: language and visuo-spatial tests
Genetics	ApoE, ACE, ...	GWAS (540K chip)	-	WGS (n=30)



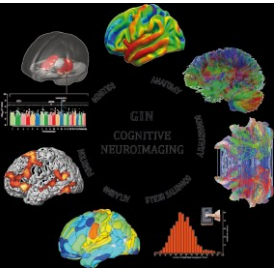
Brain Imaging Databases- GIN experience

	EVA	3-CITIES	DBGIN	BIL&GIN	i-SHARE
Objective	Epidemiology of vascular aging	Risk factors for AD and cognitive decline	Impact of FS on brain anatomy asymmetry	Sources of variance in hemispheric specialization	Impact of education on brain structure & function
Start date	1994	1999	2002	2009	2014
Type	Long (MR@t4)	Long (MR@t0/t4)	Cross	Cross	Long (MR@t0/t3/t5)
N	845	1,924 / 1,442	274 (80 LH)	453 (198 LH)	2,000 (+3-300 fam)
Age	[63, 75]	[65, 82]	[18, 53]	[19, 57]	[17, 24]
MRI	1.0T (Siemens)	1.5T (Siemens)	1.5T (GE)	3.0T (Philips)	3.0T (Siemens)
MRI_T1	3D (0.9 mm ³)	3D (1 mm ³)	3D (1.3 mm ³)	3D (1 mm ³)	3D (1mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)	2D (1-1-3 mm ³)	2D (1-1-3.5 mm ³)	2D (1-1-2 mm ³)	3D (1mm ³)
MRI_DTI	-	-	-	2D (2 mm) ³ 42 dir	2D (1 mm) ³ 75 dir
FMRI_bold	-	-	-	2D (3.75 mm) ³ TR 3sec	2D (3.75 mm) ³ TR 2sec
FMRI_tasks	-	-	-	Resting state 8 min FunBatHS (16 tasks)	Resting state
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven	MMSE, TMTA/B, Rey5, BentonVRT, Isaacs set, NART, FTT	EI, FTT, FS	EI, FTT, FS CogBatHS: language and visuo-spatial tests	EI, FTT, FS, eyedness Vocab, rhyme, reading MRT, Raven, Arithmetic, calculus
Genetics	ApoE, ACE, ...	GWAS (540K chip)	-	WGS (n=30)	WES



Brain Imaging Databases- GIN experience

	EVA	3-CITIES	DBGIN	BIL&GIN	i-SHARE
Objective	Epidemiology of vascular aging	Risk factors for AD and cognitive decline	Impact of FS on brain anatomy asymmetry	Sources of variance in hemispheric specialization	Impact of education on brain structure & function
Start date	1994	1999	2002	2009	2014
Type	Long (MR@t4)	Long (MR@t0/t4)	Cross	Cross	Long (MR@t0/t4)
N	845	1,924 / 1,442	274 (80 LH)	430 (198 LH)	2,000 (+3-300 fam)
Age	[63, 75]	[65, 82]	[18, 53]	[19, 57]	[16, 20]
MRI	1.0T (Siemens)	1.5T (Siemens)	1.5T (GE)	3.0T (Philips)	3.0T (Siemens)
MRI_T1	3D (0.9 mm ³)	3D (1 mm ³)	3D (1.3 mm ³)	3D (1 mm ³)	3D (1mm ³)
MRI_T2/PD	2D (1-1-5 mm ³)	2D (1-1-3 mm ³)	2D (1-1-3.5 mm ³)	2D (1-1-2 mm ³)	3D (1mm ³)
MRI_DTI	-	-	-	2D (2 mm) ³ 42 dir	2D (1 mm) ³ 75 dir
FMRI_bold	-	-	-	2D (3.75 mm) ³ TR 3sec	2D (3.75 mm) ³ TR 2sec
FMRI_tasks	-	-	-	Resting state 8 min FunBatHS (16 tasks)	Resting state
Behavior & Cognition	MMSE, TMTA/B, Rey15, Benton FRT, Wechsler, PASAT, LET, BentonVRT, FTT, Raven	MMSE, TMTA/B, Rey5, BentonVRT, Isaacs set, NART, FTT	EI, FTT, FS	PM, EI, FTT, FS CogBatHS: motor, language, calculus and visuo-spatial tests	EI, FTT, FS, eyedness Vocab, rhyme, reading MRT, Raven, Arithmetic, calculus
Genetics	ApoE, ACE, ...	GWAS (540K chip)	-	WGS (n=30)	WES



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