natureresearch

orresponding author(s)	s): Iris Sommer	
------------------------	-----------------	--

Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistical pa	rameters
----------------	----------

When statistical analyses are reported, confirm that the following items are present in the relevant locatext, or Methods section).	tion (e.g. figure legend, table legend, main		
n/a Confirmed			
The exact sample size (n) for each experimental group/condition, given as a discrete number a	nd unit of measurement		
🔲 🔀 An indication of whether measurements were taken from distinct samples or whether the sam	e sample was measured repeatedly		
The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods	section.		
A description of all covariates tested			
A description of any assumptions or corrections, such as tests of normality and adjustment for	multiple comparisons		
A full description of the statistics including <u>central tendency</u> (e.g. means) or other basic estimated <u>variation</u> (e.g. standard deviation) or associated <u>estimates of uncertainty</u> (e.g. confidence interesting to the statistics including <u>central tendency</u> (e.g. means) or other basic estimates of <u>variation</u> (e.g. confidence interesting tendency).			
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, Give <i>P</i> values as exact values whenever suitable.	degrees of freedom and <i>P</i> value noted		
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo setting	ngs		
For hierarchical and complex designs, identification of the appropriate level for tests and full re	eporting of outcomes		
Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated			
Clearly defined error bars State explicitly what error bars represent (e.g. SD, SE, CI)			
Our web collection on <u>statistics for biologists</u> may be useful.			
Software and code			
Policy information about <u>availability of computer code</u>			
Data collection The base cohort included all persons hospitalized for a schizophrenia-spectrum disorder (SSD) between 1972 and 2014 in Finland 11		
Data analysis			
For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for the community repository (e.g. GitHub) and the community repository (e.g. GitHub).			
Data			
Policy information about <u>availability of data</u> All manuscripts must include a <u>data availability statement</u> . This statement should provide the following	; information, where applicable:		

- Accession codes, unique identifiers, or web links for publicly available datasets

A list of figures that have associated raw dataA description of any restrictions on data availability

Field-spe	cific reporting
Please select the be	est fit for your research. If you are not sure, read the appropriate sections before making your selection.
X Life sciences	Behavioural & social sciences
For a reference copy of t	the document with all sections, see nature.com/authors/policies/ReportingSummary-flat.pdf
Life scier	ices
Study design) 1
All studies must dis	close on these points even when the disclosure is negative.
Sample size	complete Finish population
Data exclusions	The year 2000 was chosen to ensure follow-up time of at least five years for medication use before the diagnoses of SSD, since the National
Replication	
Randomization	
Blinding	
Materials &	experimental systems
Policy information a	about <u>availability of materials</u>
n/a Involved in t	
Unique m	
X Antibodie X Eukaryoti	c cell lines
Research	
Human re	esearch participants
Unique materials	
Obtaining unique	materials Describe any restrictions on the availability of unique materials OR confirm that all unique materials used are readily available
Antibodies	
Antibodies used	
Validation	
Eukaryotic cell lin	es
Policy information a	about <u>cell lines</u>
Cell line source(s)	
Authentication	
Mycoplasma con	tamination
Commonly miside (See <u>ICLAC</u> register)	

Research animals

Policy information about <u>studies involving animals</u>; <u>ARRIVE guidelines</u> recommended for reporting animal research

Animals/animal-derived materials

Human research participant	s
Policy information about studie	es involving human research participants
Population characteristics	The research project was approved by the ethics committee of the Finnish National Institute for Health and Welfare. Further
Method-specific	reporting
n/a Involved in the study X	naging
ChIP-seq	
Data deposition	
Confirm that both raw and	d final processed data have been deposited in a public database such as <u>GEO</u> .
Confirm that you have de	posited or provided access to graph files (e.g. BED files) for the called peaks.
Data access links May remain private before publication	For "Initial submission" or "Revised version" documents, provide reviewer access links. For your "Final submission" document, provide a link to the deposited data.
Files in database submission	Provide a list of all files available in the database submission.
Genome browser session (e.g. <u>UCSC</u>)	Provide a link to an anonymized genome browser session for "Initial submission" and "Revised version" documents only, to enable peer review. Write "no longer applicable" for "Final submission" documents.
Methodology	
Replicates	
Sequencing depth	+
Antibodies	+
Peak calling parameters	+
Data quality	
Software	
Flow Cytometry	
Plots	
Confirm that:	
	narker and fluorochrome used (e.g. CD4-FITC).
	visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).
	with outliers or pseudocolor plots.
	nber of cells or percentage (with statistics) is provided.
Methodology	

	_		
Me	thodology		
Sa	mple preparation		
In	strument		
Sc	ftware		#
Ce	ell population abundance		+
Ga	ating strategy		+
	Tick this box to confirm th	at a figure exemplifying the gating strategy is provided in the Supplementary Information.	

Experimental design	
Design type	Indicate task or resting state; event-related or block design.
Design specifications	Specify the number of blocks, trials or experimental units per session and/or subject, and specify the length of each trial
Behavioral performance measures	
Acquisition	
Imaging type(s)	
Field strength	
Sequence & imaging parameters	
Area of acquisition	
Diffusion MRI Used	Not used
Preprocessing	
Preprocessing software	
Normalization	
Normalization template	
Noise and artifact removal	
Volume censoring	
Statistical modeling & inference	
Model type and settings	
Effect(s) tested	
Specify type of analysis: Whole	e brain ROI-based Both
Statistic type for inference (See <u>Eklund et al. 2016</u>)	
Correction	
Models & analysis	
n/a Involved in the study Functional and/or effective cor Graph analysis Multivariate modeling or predictions	
Functional and/or effective connecti	vity
Graph analysis	
Multivariate modeling and predictive	e analysis
Behavioural & soc	

Study design

All studies must disclose on these points even when the disclosure is negative.

Study description

	-	٠.
	Ω	υ
	_	_
	C	Ξ
		₹
		Ŋ
		٠
	٥	3
	r	D
	C	n
	ā	h
	'n	۲,
	¥	ᄓ
	-	₹
	<u>_</u>	<u>)</u>
		3
		≺
		Ď
		Ę
	C	ر
	\mathcal{C}	7
	-	₹
	_	+
	Ε	╤
		ر
-(()
	4	ַ
	۲	ر د
	_	<u>د</u>
	U	2
	U	2 2 7
	U	2 2 3
	U	
	U	
	U	
	U	33
	U	33
	20211121	33

	₹	
	⋾	
	Ų	
	Š	
(∞	

Research sample	Finish population
Sampling strategy	all citizin
Data collection	Finish birth registry
Timing	The year 2000 was chosen to ensure follow-up time of at least five years for medication use before the diagnoses of SSD, since the
Data exclusions	
Non-participation	
Randomization	