

# Resource Summary Report

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## MIALAB - Resting State Data

RRID:SCR\_008914

Type: Tool

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### Proper Citation

MIALAB - Resting State Data (RRID:SCR\_008914)

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### Resource Information

**URL:** <http://mialab.mrn.org/data/index.html>

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**Description:** An MRI data set that demonstrates the utility of a mega-analytic approach by identifying the effects of age and gender on the resting-state networks (RSNs) of 603 healthy adolescents and adults (mean age: 23.4 years, range: 12-71 years). Data were collected on the same scanner, preprocessed using an automated analysis pipeline based in SPM, and studied using group independent component analysis. RSNs were identified and evaluated in terms of three primary outcome measures: time course spectral power, spatial map intensity, and functional network connectivity. Results revealed robust effects of age on all three outcome measures, largely indicating decreases in network coherence and connectivity with increasing age. Gender effects were of smaller magnitude but suggested stronger intra-network connectivity in females and more inter-network connectivity in males, particularly with regard to sensorimotor networks. These findings, along with the analysis approach and statistical framework described, provide a useful baseline for future investigations of brain networks in health and disease.

**Synonyms:** Medical Image Analysis Laboratory - Resting State Data, MIA Laboratory - Resting State Data, Medical Image Analysis Lab - Resting State Data, Medical Image Analysis (MIA) Laboratory - Resting State Data

**Resource Type:** data or information resource, data set

**Defining Citation:** [PMID:21442040](#)

**Keywords:** fmri, functional connectivity, resting-state, independent component analysis, connectome, adolescent, adult, mri, resting state network, connectivity, dataset

**Related Condition:** Aging

**Funding:** NRC Bilatgrunn ;  
NIBIB 1R01-EB006841;

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NIBIB 2R01-EB000840;  
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NIDA1 R03 DA022435-01A1 ;  
NIDA1 R03 DA024212-01A1 ;  
NIDA KO1-DA021632-02

**Resource Name:** MIALAB - Resting State Data

**Resource ID:** SCR\_008914

**Alternate IDs:** nlx\_151552

**Record Creation Time:** 20220129T080250+0000

**Record Last Update:** 20260905T133329+0000

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## Ratings and Alerts

No rating or validation information has been found for MIALAB - Resting State Data.

No alerts have been found for MIALAB - Resting State Data.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Xiao F, et al. (2019) Independent Component Analysis and Graph Theoretical Analysis in Patients with Narcolepsy. Neuroscience bulletin, 35(4), 743.

D??ez-Cirarda M, et al. (2018) Dynamic functional connectivity in Parkinson's disease patients with mild cognitive impairment and normal cognition. NeuroImage. Clinical, 17, 847.

Wilcox CE, et al. (2018) Default mode network deactivation to smoking cue relative to food cue predicts treatment outcome in nicotine use disorder. Addiction biology, 23(1), 412.

Zhou F, et al. (2018) Altered perfusion of the sensorimotor cortex in patients with cervical spondylotic myelopathy: an arterial spin labeling study. Journal of pain research, 11, 181.

Gielen J, et al. (2018) The effect of task modality and stimulus frequency in paced serial addition tests on functional brain activity. PloS one, 13(3), e0194388.

Grothe MJ, et al. (2016) Spatial patterns of atrophy, hypometabolism, and amyloid deposition in Alzheimer's disease correspond to dissociable functional brain networks. Human brain mapping, 37(1), 35.

Zhuang Y, et al. (2015) Intrinsic functional plasticity of the sensorimotor network in relapsing-remitting multiple sclerosis: evidence from a centrality analysis. PloS one, 10(6), e0130524.

Zhou FQ, et al. (2015) Intrinsic functional plasticity of the sensory-motor network in patients with cervical spondylotic myelopathy. Scientific reports, 5, 9975.

Finke K, et al. (2015) Visual attention in preterm born adults: specifically impaired attentional sub-mechanisms that link with altered intrinsic brain networks in a compensation-like mode. NeuroImage, 107, 95.

Calhoun VD, et al. (2012) A selective review of simulated driving studies: Combining naturalistic and hybrid paradigms, analysis approaches, and future directions. NeuroImage, 59(1), 25.