

# Resource Summary Report

Generated by [RRID](#) on Aug 4, 2026

## CIGAL

RRID:SCR\_002232

Type: Tool

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### Proper Citation

CIGAL (RRID:SCR\_002232)

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### Resource Information

**URL:** <http://wiki.biac.duke.edu/jvs:cigal>

**Proper Citation:** CIGAL (RRID:SCR\_002232)

**Description:** Software program that provides accurate real-time stimulus control, behavioral and physiological recording, and synchronization with external devices. It can also provide continuous real-time feedback of task performance and physiological responses. Task programming typically involves a simple text file specifying basic parameter settings (e.g. screen color) and a list of stimulus events, which can include images, animated movies, sound files, text stimuli, video graphics, or commands that communicate with external hardware devices. Multiple video and auditory stimuli can be presented simultaneously. Multi-channel response recording and real-time feedback features require no user programming. Advanced users can add customized stimulus events using CIGAL's real-time programming capabilities. Output files can be automatically created in a variety of output formats (e.g. FSL 3-column files, XML Events files, CSV trial tables).

**Abbreviations:** CIGAL

**Synonyms:** Compilable Imaging Graphics and Analytical Language

**Resource Type:** software resource

**Keywords:** magnetic resonance, stimulus control, behavioral recording, physiological recording

**Availability:** Free, Available for download, Freely available

**Resource Name:** CIGAL

**Resource ID:** SCR\_002232

**Alternate IDs:** nlx\_155528

**Alternate URLs:** <http://www.nitrc.org/projects/cigal>

**Old URLs:** <http://fourier.biac.duke.edu/wiki/doku.php/jvs:cigal>

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**Record Creation Time:** 20220129T080212+0000

**Record Last Update:** 20260801T190144+0000

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## Ratings and Alerts

No rating or validation information has been found for CIGAL.

No alerts have been found for CIGAL.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Heunis S, et al. (2020) Quality and denoising in real-time functional magnetic resonance imaging neurofeedback: A methods review. Human brain mapping, 41(12), 3439.

Detloff AM, et al. (2020) Neural signatures of promotion versus prevention goal priming: fMRI evidence for distinct cognitive-motivational systems. Personality neuroscience, 3, e1.

Katsumi Y, et al. (2017) Neural Correlates of Racial Ingroup Bias in Observing Computer-Animated Social Encounters. Frontiers in human neuroscience, 11, 632.

Carpenter KL, et al. (2015) Preschool anxiety disorders predict different patterns of amygdala-prefrontal connectivity at school-age. PloS one, 10(1), e0116854.

Denkova E, et al. (2013) The Effect of Retrieval Focus and Emotional Valence on the Medial Temporal Lobe Activity during Autobiographical Recollection. Frontiers in behavioral neuroscience, 7, 109.

Hart SJ, et al. (2006) Visuospatial executive function in Turner syndrome: functional MRI and neurocognitive findings. Brain : a journal of neurology, 129(Pt 5), 1125.