

Resource Summary Report

Generated by [RRID](#) on Aug 9, 2026

BeatBox

RRID:SCR_015780

Type: Tool

Proper Citation

BeatBox (RRID:SCR_015780)

Resource Information

URL: <https://zenodo.org/record/167621>

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Description: Simulation environment that combines flexible script language user interface with computational tools in order to setup cardiac electrophysiology in-silico experiments without re-coding at low-level. It aims to include cell excitation, tissue/anatomy models, and stimulation protocols in BeatBox scripts so that simulation run either sequentially or in parallel (MPI) without re-compilation.

Synonyms: BeatBox—HPC simulation environment for biophysically and anatomically realistic cardiac electrophysiology.

Resource Type: software resource, software application, simulation software

Defining Citation: [PMID:28467407](#)

Keywords: simulation, cardiac electrophysiology, computation, script language, c, ecg, heart, cardiology, simulation protocol

Funding: EPSRC EP/I029664;
EPSRC EP/N014391/1;
EPSRC EP/P008690/1

Availability: Free, Available for download

Resource Name: BeatBox

Resource ID: SCR_015780

Alternate URLs: <https://github.com/beatbox-heart/beatbox-public/tree/v1.7.982>

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260808T190041+0000

Ratings and Alerts

No rating or validation information has been found for BeatBox.

No alerts have been found for BeatBox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Degezelle MM, et al. (2026) Destabilization of cardiac myosin acetylation and sequestration with type 2 diabetes mellitus. Cardiovascular diabetology, 25(1).

Martín A, et al. (2026) Targeted KRASG12V Degradation in vivo Elicits Lung Adenocarcinoma Regression with Subsequent Relapse from Dysregulated Proteolysis. Cancer research.

Noes-Holt G, et al. (2026) Recombinant dimeric PICK1 peptide inhibitors for long-term relief of chronic pain by AAV therapeutics. Cell reports. Medicine, 7(6), 102800.

Ananthapadmanabhan V, et al. (2026) Targeted degradation of MDM2 overcomes feedback regulation of p53 signaling in Merkel cell carcinoma models. The Journal of clinical investigation, 136(13).

Raun SH, et al. (2025) Skeletal muscle Rac1 mediates exercise training adaptations towards muscle glycogen resynthesis and protein synthesis. Redox biology, 86, 103844.

Prada E, et al. (2025) PRKG1 hinders myogenic differentiation and predicts response to AKT inhibitor ipatasertib in Rhabdomyosarcoma. Nature communications, 16(1), 9816.

Morton-Hayward A, et al. (2025) Deep palaeoproteomic profiling of archaeological human brains. PloS one, 20(5), e0324246.

Petersen J, et al. (2024) GLP-1-directed NMDA receptor antagonism for obesity treatment. Nature, 629(8014), 1133.

Fadahunsi N, et al. (2024) Targeting postsynaptic glutamate receptor scaffolding proteins PSD-95 and PICK1 for obesity treatment. Science advances, 10(9), eadg2636.

Soni RK, et al. (2023) Protocol for deep proteomic profiling of formalin-fixed paraffin-embedded specimens using a spectral library-free approach. STAR protocols, 4(3), 102381.

Kharche SR, et al. (2015) A Computer Simulation Study of Anatomy Induced Drift of Spiral Waves in the Human Atrium. BioMed research international, 2015, 731386.