

Resource Summary Report

Generated by SPARC SAWG on Sep 15, 2026

Experimental Design Assistant

RRID:SCR_017019

Type: Tool

Proper Citation

Experimental Design Assistant (RRID:SCR_017019)

Resource Information

URL: <https://eda.nc3rs.org.uk/>

Proper Citation: Experimental Design Assistant (RRID:SCR_017019)

Description: Web based tool to help in vivo researchers improve design, conduct, analysis and reporting of animal experiments. Provides automated feedback on proposed design and generates graphical summary that aids communication with colleagues, founders and regulatory authorities. Addresses causes of irreproducibility.

Abbreviations: EDA

Synonyms: EDA, Experimental Design Assistant (EDA), Experimental Design Assistant

Resource Type: service resource, software resource, web application

Defining Citation: [PMID:28957312](#)

Keywords: in vivo, design, conduct, analysis, reporting, animal, experiment, irreproducibility, bio.tools

Availability: Free, Freely available

Resource Name: Experimental Design Assistant

Resource ID: SCR_017019

Alternate IDs: biotools:eda

Alternate URLs: <https://bio.tools/eda>

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260912T195847+0000

Ratings and Alerts

No rating or validation information has been found for Experimental Design Assistant.

No alerts have been found for Experimental Design Assistant.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 192 mentions in open access literature.

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

Hendrickx S, et al. (2026) A strategic discovery roadmap towards high-quality leads and drug development candidates for kinetoplastid diseases. Part 2: from molecule to confirmed hit. The Journal of antimicrobial chemotherapy, 81(4).

Mazoit JX, et al. (2026) Reduce or not reduce: a practical guide to calculate sample size for various experimental design in studies involving animals. Frontiers in pharmacology, 17, 1786234.

Serrenho I, et al. (2026) Quieting the Storm: Hypoxia as a Strategy to Boost UC-MSC Therapies for Hypoxic-Ischemic Brain Lesions in Neonatal Rats. Stem cell reviews and reports, 22(4), 1974.

Heinl C, et al. (2026) A call for preregistration of in vitro research : Pregistration as a tool to improve reproducibility and transparency. EMBO reports, 27(9), 2147.

Sabucedo-Suárez A, et al. (2026) 27-Week avocado-soybean unsaponifiables treatment in a knee osteoarthritis rabbit model: histomorphometric assessment of potential disease-modifying effects. Frontiers in veterinary science, 13, 1821515.

Weinerova J, et al. (2025) Breaking barriers towards credible research: Outcomes of a workshop at the BNA Festival of Neuroscience 2025. Brain and neuroscience advances, 9, 23982128251363046.

Gao Y, et al. (2025) Copine-6 is a TRPM3 escort protein controlling the sensitivity of sensory neurons to noxious heat. The EMBO journal, 44(15), 4222.

Santambrogio A, et al. (2025) SOX2+ sustentacular cells are stem cells of the postnatal adrenal medulla. Nature communications, 16(1), 16.

Kaiser M, et al. (2024) Ten simple rules for establishing an experimental lab. PLoS computational biology, 20(1), e1011778.

Wang T, et al. (2024) Design and lyophilization of mRNA-encapsulating lipid nanoparticles. International journal of pharmaceutics, 662, 124514.

Hill TG, et al. (2024) Loss of electrical β -cell to β -cell coupling underlies impaired hypoglycaemia-induced glucagon secretion in type-1 diabetes. *Nature metabolism*, 6(11), 2070.

Yan Y, et al. (2024) piR-1919609 Is an Ideal Potential Target for Reversing Platinum Resistance in Ovarian Cancer. *Technology in cancer research & treatment*, 23, 15330338241249692.

da Fonseca Cardoso LM, et al. (2024) Software for animal randomization: A tool for increasing the reproducibility of science. *Laboratory animals*, 58(2), 164.

von Kortzfleisch VT, et al. (2024) Systematic heterogenization revisited: Increasing variation in animal experiments to improve reproducibility? *Journal of neuroscience methods*, 401, 109992.

de Marchi DD, et al. (2024) Weight and Glucose Control in Rats Submitted to Sleeve Gastrectomy with Cafeteria Diet-Induced Obesity. *Journal of laparoendoscopic & advanced surgical techniques. Part A*, 34(1), 11.

Kasali FM, et al. (2024) Effects of *Physalis peruviana* L. (leaf crude extracts) on blood glucose and functional biomarkers in streptozotocin-nicotinamide-induced diabetic rats. *Die Pharmazie*, 79(1), 6.

Butzke D, et al. (2024) SMAFIRA: a literature-based web tool to assist researchers with retrieval of 3R-relevant information. *Laboratory animals*, 58(4), 369.

Wood L, et al. (2024) Fasting before Intra-Gastric Dosing with Antigen Improves Intestinal Humoral Responses in Syrian Hamsters. *Vaccines*, 12(6).

Segura-Cervantes E, et al. (2024) Body composition and metabolic consequences of antibiotics most frequently administered to newborns in intensive care units: an experimental study in healthy newborn rats. *Frontiers in medicine*, 11, 1369797.

Khan AA, et al. (2024) Enteric nervous system regeneration and functional cure of experimental digestive Chagas disease with trypanocidal chemotherapy. *Nature communications*, 15(1), 4400.