

Resource Summary Report

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ORION

RRID:SCR_010621

Type: Tool

Proper Citation

ORION (RRID:SCR_010621)

Resource Information

URL: <http://cbl.uh.edu/ORION/>

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Description: Project to develop tools that explore single neuron function via sophisticated image analysis. ORION software bridges advanced optical imaging and compartmental modeling of neuronal function by rapidly, accurately, and robustly generating, from structural image data, a cylindrical morphology model suitable for simulating neuronal function.

Synonyms: ORION Research

Resource Type: data processing software, software resource, image analysis software, software application

Keywords: structural imaging, reconstruction, simulation, functional imaging, multiphoton, confocal

Funding: University of Houston; Texas; USA ;
NIA RO1-AG027577;
NSF IIS-0431144;
NSF IIS-0638875;
NSF DMS-0915242

Availability: Available to the research community

Resource Name: ORION

Resource ID: SCR_010621

Alternate IDs: nlx_56302

Alternate URLs: <https://github.com/CBL-ORION/orion>

Old URLs: <http://cbl.uh.edu/ORION/research/overview>

Record Creation Time: 20220129T080259+0000

Record Last Update: 20250525T032052+0000

Ratings and Alerts

No rating or validation information has been found for ORION.

No alerts have been found for ORION.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Shaltout I, et al. (2024) Risk Stratification in People with Diabetes for Fasting During Ramadan: Consensus from Arabic Association for the Study of Diabetes and Metabolism. Current diabetes reviews, 20(7), e201023222409.

Kayhanian H, et al. (2024) Homopolymer switches mediate adaptive mutability in mismatch repair-deficient colorectal cancer. Nature genetics, 56(7), 1420.

Strober B, et al. (2024) Long-Term Safety of Guselkumab in Patients with Psoriatic Disease: An Integrated Analysis of Eleven Phase II/III Clinical Studies in Psoriasis and Psoriatic Arthritis. Drug safety, 47(1), 39.

Katayama Y, et al. (2024) Factors associated with difficulty in hospital acceptance during the COVID-19 pandemic period in Osaka Prefecture, Japan: a population-based study. Frontiers in public health, 12, 1391519.

Girling C, et al. (2023) Protocol for the ORION trial (Radio frequency ablation for haemorrhoids): a randomised controlled trial. Techniques in coloproctology, 27(2), 117.

Makhmudova U, et al. (2023) High interindividual variability in LDL-cholesterol reductions after inclisiran administration in a real-world multicenter setting in Germany. Clinical research

in cardiology : official journal of the German Cardiac Society, 112(11), 1639.

Haun JN, et al. (2023) Traumatic Brain Injury Intensive Evaluation and Treatment Program: Protocol for a Partnered Evaluation Initiative Mixed Methods Study. JMIR research protocols, 12, e44776.

Parayil RT, et al. (2023) ZnGa₂-xAlxO₄ (x = 0 ? 2) spinel for persistent light emission and HER/OER bi-functional catalysis. RSC advances, 13(44), 31101.

Nakao S, et al. (2023) Assessing the impact of COVID-19 pandemic on ambulance transports for self-harm: a population-based study in Osaka Prefecture, Japan. BMJ open, 13(9), e074903.

Katayama Y, et al. (2023) Outcome of emergency patients transported by ambulance during the COVID-19 pandemic in Osaka Prefecture, Japan: a population-based descriptive study. Frontiers in public health, 11, 1322236.

Santurri M, et al. (2023) Automated conduction velocity estimation based on isochronal activation of heart chambers. Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing, 66(3), 647.

Vaughan B, et al. (2023) Osteopathy Referrals to and from General Practitioners: Secondary Analysis of Practitioner Characteristics from an Australian Practice-Based Research Network. Healthcare (Basel, Switzerland), 12(1).

Chen T, et al. (2023) Global translational induction during NLR-mediated immunity in plants is dynamically regulated by CDC123, an ATP-sensitive protein. Cell host & microbe, 31(3), 334.

Wang L, et al. (2022) The V2 Protein from the Geminivirus Tomato Yellow Leaf Curl Virus Largely Associates to the Endoplasmic Reticulum and Promotes the Accumulation of the Viral C4 Protein in a Silencing Suppression-Independent Manner. Viruses, 14(12).

Desai NR, et al. (2022) Cost Effectiveness of Inclisiran in Atherosclerotic Cardiovascular Patients with Elevated Low-Density Lipoprotein Cholesterol Despite Statin Use: A Threshold Analysis. American journal of cardiovascular drugs : drugs, devices, and other interventions, 22(5), 545.

Malik RA, et al. (2022) Safety and Effectiveness of Insulin Glargine 300 U/mL in Participants with Type 2 Diabetes Who Fast During Ramadan in The Gulf Region: A Subgroup Analysis of the Real-World ORION Study. Diabetes therapy : research, treatment and education of diabetes and related disorders, 13(3), 569.

Ilyas S, et al. (2022) Biotechnological recycling of hazardous waste PCBs using *Sulfobacillus thermosulfidooxidans* through pretreatment of toxicant metals: Process optimization and kinetic studies. Chemosphere, 286(Pt 3), 131978.

Cestari VRF, et al. (2022) Structure internal of the dimension Human Person of the Questionnaire of Health Vulnerability in Heart Failure. Revista da Escola de Enfermagem da

U S P, 56, e20220117.

Ota K, et al. (2022) Effect of the COVID-19 outbreak on emergency transport of children by an emergency medical service system: a population-based, ORION registry study. BMC emergency medicine, 22(1), 206.

Hassanein M, et al. (2022) A Real-World Observational Study of Gla-300 in Adults with Type 2 Diabetes Who Fast During Ramadan in the South Asia Region: A Subgroup Analysis of the ORION Study. Diabetes therapy : research, treatment and education of diabetes and related disorders, 13(4), 747.