

Resource Summary Report

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SPINAL

RRID:SCR_012080

Type: Tool

Proper Citation

SPINAL (RRID:SCR_012080)

Resource Information

URL: <https://code.google.com/p/spinal/>

Proper Citation: SPINAL (RRID:SCR_012080)

Description: Algorithm for the problem of globally aligning a pair of protein-protein interaction (PPI) networks.

Resource Type: software resource

Defining Citation: [PMID:23413436](#)

Keywords: standalone software, c++

Availability: Free, Public

Resource Name: SPINAL

Resource ID: SCR_012080

Alternate IDs: OMICS_04881

Record Creation Time: 20220129T080308+0000

Record Last Update: 20260801T190435+0000

Ratings and Alerts

No rating or validation information has been found for SPINAL.

No alerts have been found for SPINAL.

Data and Source Information

Usage and Citation Metrics

We found 73 mentions in open access literature.

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

Nunna RS, et al. (2025) Cost-Effectiveness Analyses of Bone Morphogenetic Protein 2 (rhBMP-2) in Spinal Fusion: A Systematic Review. *Global spine journal*, 15(4), 2514.

Zibrowius B, et al. (2024) On the Use of Solomon Echoes in 27 Al NMR Studies of Complex Aluminium Hydrides. *ChemistryOpen*, 13(1), e202300011.

Gutiérrez-González R, et al. (2024) Video-based lecture engagement in a flipped classroom environment. *BMC medical education*, 24(1), 1218.

Hohagen M, et al. (2024) MANNosylation of Mesoporous Silica Nanoparticles Modifies TLR4 Localization and NF- κ B Translocation in T24 Bladder Cancer Cells. *Advanced healthcare materials*, 13(17), e2304150.

Li J, et al. (2024) Dynamics underlie the drug recognition mechanism by the efflux transporter EmrE. *Nature communications*, 15(1), 4537.

Huang W, et al. (2024) Direct Synthesis of N-formamides by Integrating Reductive Amination of Ketones and Aldehydes with CO₂ Fixation in a Metal-Organic Framework. *Chemistry (Weinheim an der Bergstrasse, Germany)*, 30(7), e202303289.

Pradhan BL, et al. (2024) Analyzing atomic scale structural details and nuclear spin dynamics of four macrolide antibiotics: erythromycin, clarithromycin, azithromycin, and roxithromycin. *RSC advances*, 14(25), 17733.

Nätkynmäki A, et al. (2024) Spinally targeted paired associated stimulation with high-frequency peripheral component induces spinal level plasticity in healthy subjects. *Scientific reports*, 14(1), 31052.

Liu J, et al. (2024) The structure of mouse RIPK1 RHIM-containing domain as a homo-amyloid and in RIPK1/RIPK3 complex. *Nature communications*, 15(1), 6975.

Malla SB, et al. (2024) Pathway level subtyping identifies a slow-cycling biological phenotype associated with poor clinical outcomes in colorectal cancer. *Nature genetics*, 56(3), 458.

Kousalová J, et al. (2024) Biodegradable Covalently Crosslinked Poly[N-(2-Hydroxypropyl) Methacrylamide] Nanogels: Preparation and Physicochemical Properties. *Polymers*, 16(2).

Stern T, et al. (2024) Single-Step Synthesis and Characterization of Non-Linear Tough and Strong Segmented Polyurethane Elastomer Consisting of Very Short Hard and Soft Segments and Hierarchical Side-Reacted Networks and Single-Step Synthesis of Hierarchical Hyper-Branched Polyurethane. *Molecules (Basel, Switzerland)*, 29(7).

Jacobs E, et al. (2023) Cuticular profiling of insecticide resistant *Aedes aegypti*. bioRxiv : the preprint server for biology.

Stern T, et al. (2023) Chemical Structure and Side Reactions in Polyurea Synthesized via the Water-Diisocyanate Synthesis Pathway. *Polymers*, 15(17).

Sanders E, et al. (2023) The Stabilization of S100A9 Structure by Calcium Inhibits the Formation of Amyloid Fibrils. *International journal of molecular sciences*, 24(17).

Lubura J, et al. (2023) Natural Rubber Composites Using Hydrothermally Carbonized Hardwood Waste Biomass as a Partial Reinforcing Filler- Part I: Structure, Morphology, and Rheological Effects during Vulcanization. *Polymers*, 15(5).

Marchi M, et al. (2023) Carbon Vacancies Steer the Activity in Dual Ni Carbon Nitride Photocatalysis. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 10(26), e2303781.

Kulig D, et al. (2023) Functional Properties of Chitosan Oligomers Obtained by Enzymatic Hydrolysis. *Polymers*, 15(18).

Milakin KA, et al. (2023) Effect of a Zr-Based Metal-Organic Framework Structure on the Properties of Its Composite with Polyaniline. *ACS applied materials & interfaces*, 15(19), 23813.

Szego AE, et al. (2023) Precapture of CO₂ and Hydrogenation into Methanol on Heterogenized Ruthenium and Amine-Rich Catalytic Systems. *ChemistryOpen*, 12(6), e202300060.