

Resource Summary Report

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KinTek Explorer

RRID:SCR_021274

Type: Tool

Proper Citation

KinTek Explorer (RRID:SCR_021274)

Resource Information

URL: <http://www.kintekexplorer.com>

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Description: Software tool for fitting kinetic and equilibrium data based on numerical integration of rate equation from any model input user. Simulation and data-fitting software for research and education designed specifically for the field of chemical kinetics.

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

Keywords: Kinetic data fitting, equilibrium data fitting, rate equation, data fitting, chemical kinetics

Availability: Restricted

Resource Name: KinTek Explorer

Resource ID: SCR_021274

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260912T195953+0000

Ratings and Alerts

No rating or validation information has been found for KinTek Explorer.

No alerts have been found for KinTek Explorer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 54 mentions in open access literature.

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

Dangerfield TL, et al. (2026) Single-turnover kinetic analysis of non-long terminal repeat retrotransposition defines the pathway and rate constants leading to second-strand synthesis. *Nucleic acids research*, 54(6).

Guan K, et al. (2026) Comparative characterization of Cas12f orthologs reveals mechanistic features underlying enhanced genome editing efficiency. *Nature structural & molecular biology*, 33(5), 756.

Dangerfield TL, et al. (2026) Slow PPi release enhances fidelity of the SARS-CoV-2 RNA dependent RNA polymerase. *The Journal of biological chemistry*, 302(6), 111457.

Tsuruta M, et al. (2025) The role of cytosine methylation in regulating the topology and liquid-liquid phase separation of DNA G-quadruplexes. *Chemical science*, 16(10), 4213.

Ocampo RF, et al. (2025) DNA targeting by compact Cas9d and its resurrected ancestor. *Nature communications*, 16(1), 457.

McCarty KD, et al. (2025) Liver fatty acid binding protein FABP1 transfers substrates to cytochrome P450 4A11 for catalysis. *The Journal of biological chemistry*, 301(2), 108168.

Zheng K, et al. (2024) S-adenosyl-L-methionine is the unexpected methyl donor for the methylation of mercury by the membrane-associated HgcAB complex. *Proceedings of the National Academy of Sciences of the United States of America*, 121(47), e2408086121.

Karamitros CS, et al. (2024) Mechanistic conformational and substrate selectivity profiles emerging in the evolution of enzymes via parallel trajectories. *Nature communications*, 15(1), 7068.

Mäkinen JJ, et al. (2024) Probing the nucleobase selectivity of RNA polymerases with dual-coding substrates. *The Journal of biological chemistry*, 300(10), 107755.

Moree SS, et al. (2024) Kinetics of Secoisolariciresinol Glucosyltransferase LuUGT74S1 and Its Mutants. *Journal of agricultural and food chemistry*, 72(36), 20005.

Lee KY, et al. (2024) Unraveling blunt-end RNA binding and ATPase-driven translocation activities of the RIG-I family helicase LGP2. *Nucleic acids research*, 52(1), 355.

Gao J, et al. (2024) Two residues in the DNA binding site of Pif1 helicase are essential for nuclear functions but dispensable for mitochondrial respiratory growth. *Nucleic acids research*, 52(11), 6543.

Pitsawong W, et al. (2023) From primordial clocks to circadian oscillators. *Nature*, 616(7955), 183.

Oosterheert W, et al. (2023) Molecular mechanisms of inorganic-phosphate release from the core and barbed end of actin filaments. *Nature structural & molecular biology*, 30(11),

1774.

Dangerfield TL, et al. (2023) Kinetics of DNA strand transfer between polymerase and proofreading exonuclease active sites regulates error correction during high-fidelity replication. *The Journal of biological chemistry*, 299(1), 102744.

Shen S, et al. (2023) Structural and Mechanistic Basis for the Inactivation of Human Ornithine Aminotransferase by (3S,4S)-3-Amino-4-fluorocyclopentenecarboxylic Acid. *Molecules (Basel, Switzerland)*, 28(3).

McCarty KD, et al. (2023) Processive kinetics in the three-step lanosterol 14 α -demethylation reaction catalyzed by human cytochrome P450 51A1. *The Journal of biological chemistry*, 299(7), 104841.

Namitz KEW, et al. (2023) Phase separation promotes a highly active oligomeric scaffold of the MLL1 core complex for regulation of histone H3K4 methylation. *The Journal of biological chemistry*, 299(10), 105204.

Papageorgiou AC, et al. (2023) Recognition and coacervation of G-quadruplexes by a multifunctional disordered region in RECQ4 helicase. *Nature communications*, 14(1), 6751.

Dangerfield TL, et al. (2023) Kinetics of elementary steps in loop-mediated isothermal amplification (LAMP) show that strand invasion during initiation is rate-limiting. *Nucleic acids research*, 51(1), 488.