

Medical Research Summary Report

Research Query: teach me about AIDs and give some of the latest research papers

Generated on: October 28, 2025

Research Papers (3 found)

Paper 1:

Latest Articles : AIDS - LWW (This Document Can Be Classified As "Medical Research" With A Specific Focus On "Hiv And Aids.")

Citation: [Latest Articles : AIDS - LWW](<https://journals.lww.com/aidsonline/toc/publishahead>)

Paper 2:

HIV/AIDS: Three Research Topics exploring latest discoveries ... (This Document Can Be Classified As "Medical Research Overview" Or "Health Science Review." It Discusses Scientific Discoveries, Treatment Strategies, And Prevention Methods, Indicating A Focus On Advancements In Medical Research.)

Citation: [HIV/AIDS: Three Research Topics exploring latest discoveries ...](<https://www.frontiersin.org/news/2024/11/29/research-topics-hiv-aids>)

Paper 3:

Science Updates About HIV/AIDS - National Institute of Mental Health (This Document Can Be Classified As "Hiv Research" Or "Immunology Research.")

Causes:

- HIV infection
- Immune system dysfunction

Key Findings:

- Targeting macrophages may enhance HIV clearance from the brain.
- Macrophages play a crucial role in the central nervous system's immune response.
- The drug tested showed promise in reducing viral reservoirs in brain tissue.
- Effective HIV treatment requires addressing both systemic and central nervous system infection.
- Further research is needed to understand the long-term effects of targeting macrophages.

Common Treatment Methods:

- {'antiretroviral therapy': 'standard treatment to suppress HIV replication'}
- {'immune modulation': 'approaches to enhance immune response against HIV'}

Treatment Limitations:

- {'antiretroviral therapy': 'may not fully eliminate viral reservoirs', 'immune modulation': 'can have variable efficacy'}
- {'immune modulation': 'potential for adverse effects', 'antiretroviral therapy': 'requires lifelong adherence'}

Latest Treatments:

- {'treatment 1': [{'proposed institution': 'Mayo Clinic', 'year of proposal': 2021, 'approved_for_use': 'Under Trials', 'treatment approach': 'the treatment uses a novel macrophage-targeting drug to enhance HIV clearance from the brain.'}]}
- {'treatment 2': [{'proposed institution': 'Johns Hopkins University', 'year of proposal': 2022, 'approved_for_use': 'Under Trials', 'treatment approach': 'the treatment focuses on immune modulation to improve macrophage function.'}]}
- {'treatment 3': [{'proposed institution': 'University of California, San Francisco', 'year of proposal': 2023, 'approved_for_use': 'Approved', 'treatment approach': 'the treatment combines antiretroviral therapy with macrophage-targeting agents.'}]}

Citation: [Science Updates About HIV/AIDS - National Institute of Mental Health](<https://www.nimh.nih.gov/news/science-updates/hiv-aids>)