

# Academic Research Multi-Institution Collaboration

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## Multi-Institution Research Reality

NIH multi-institutional research consortia, NSF cross-institution research centers, DOE national-lab collaborations, and emerging international research consortia all face cross-institution coordination friction.

Each institution maintains its IRB, IACUC, IBC, and research-administration authority; cross-institution composition is implementation-by-implementation.

## n-Party as Substrate

Each institution contributes credentialed research operations under institutional authority. Cross-institution operations admit through declared collaboration federation. IRB scope, IACUC scope, and emerging AI-research-governance scope all admit through composite admissibility.

Research-data sharing, cross-institution sample exchange, and emerging cross-institution AI-model federation all integrate structurally.

## Research Coordination Trajectory

Emerging open-science frameworks, emerging research-AI governance, emerging federated learning across institutions all benefit from architectural n-party substrate.