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# Towards Multi-Dimensional Collaborative Governance of Medical Research Integrity in China: A Stakeholder-Centric Strategy

Reporter: Cheng Yuxiaoqian



# Introduction

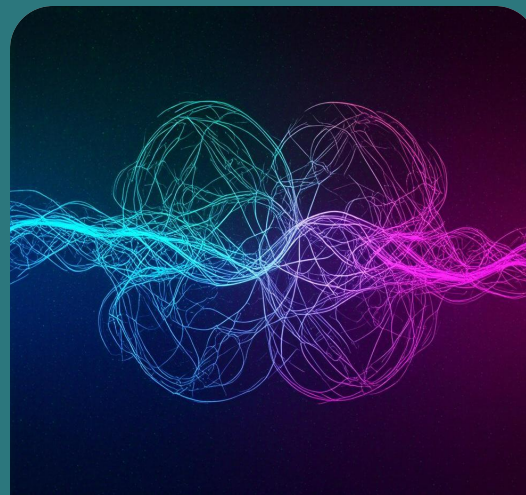


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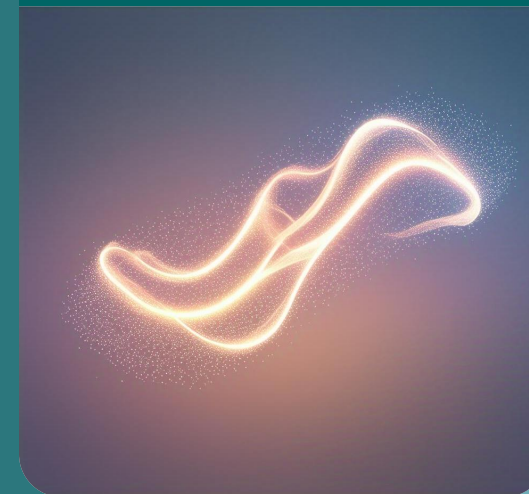
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## Institutional identification



# Brief Presenter Biography

## Educational background

Education: Since 2023, Master of Health Policy and Management, Peking Union Medical College.  
Undergraduate education: 2019-2023, Bachelor of Business Administration, Xi an International Studies University.

## Research interests

Focus on medical informatization and artificial intelligence, medical scientific research management and health economy and policy evaluation

## Skills and expertise

Proficient in Python, Spss for data analysis



# Research Interests and Current Projects

## Focus of the study

- Research Focus: Governance of medical research integrity, health policy analysis, tech in healthcare.
- Core Areas: Medical ethics oversight, health strategies, digital health applications.

## Current projects

- Beijing scientific research integrity reminder-research in the field of medicine and health
- The risk of artificial intelligence in scientific research dishonesty in the medical field: based on the prevention and treatment of global retracted papers
- Quantitative evaluation of scientific research credit policy in medical field based on policy consistency index model





# Medical Research Integrity Challenge in China

## Research background and problem

- Medical Research Progress: medical research sees swift advances, mirroring a rise in integrity concerns such as data falsification, copying, and undisclosed ghostwriting.
- Integrity Issues: Issues of integrity, including fabricated data, plagiarism, and ghostwriting, are on the rise amidst rapid medical research progress.

## The importance of research integrity

- The cornerstone of research integrity: the foundation of scientific innovation, the source of public trust, and the guarantee of a healthy academic environment.
- The bond of scientific trust: connecting scholars with society, ensuring the authenticity and reliability of knowledge, and promoting harmonious progress in science and technology.

## Government response

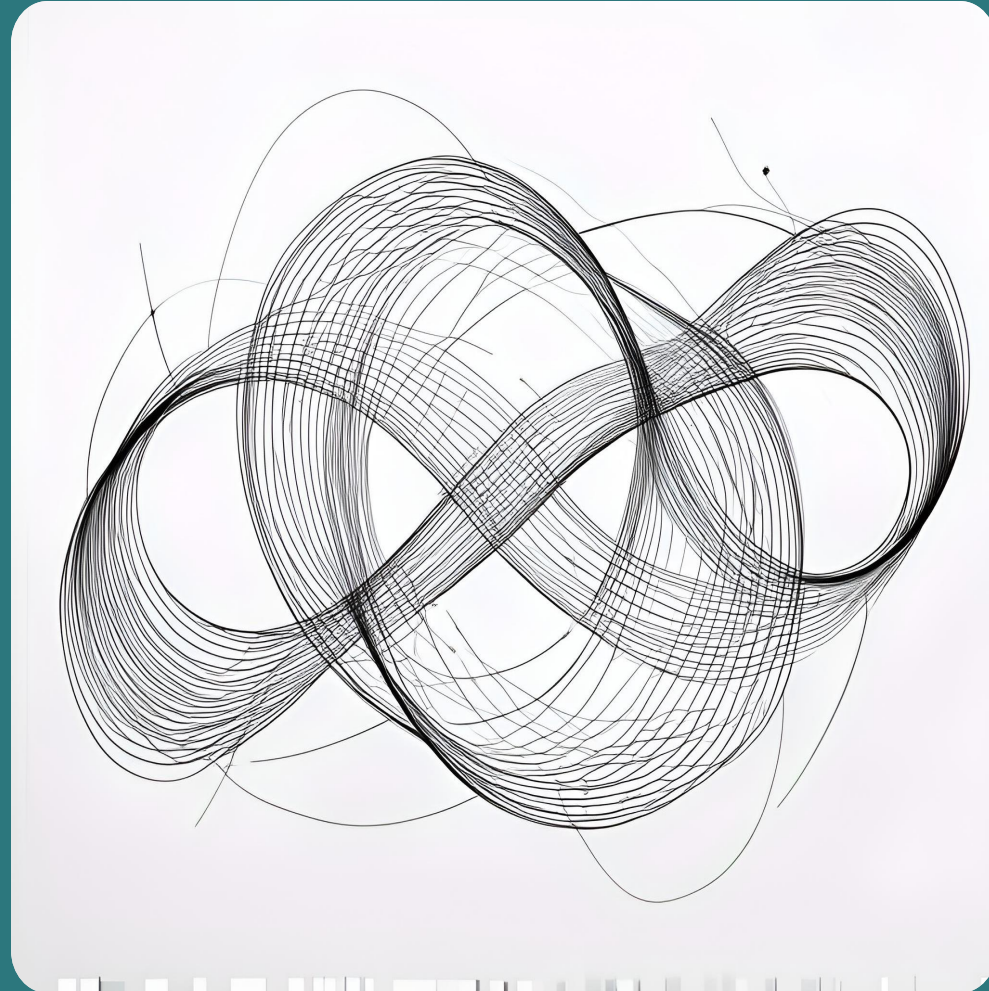
- Policy: Issued "Several Opinions" to strengthen research integrity, clarify guidelines, and promote academic standards.
- Medical norms: Introduced "Code of Conduct" to regulate practices, ensure data authenticity, and prevent misconduct.
- Policy focus: Strengthen integrity construction and standardize medical research.  
Development goal: Enhance integrity and regulate practices.

## Research methods and framework

- Research Methodology and Framework: Applying stakeholder theory to construct a multidimensional collaborative governance framework.
- Implementation Challenges: Challenges in implementation and grassroots execution persist under the strong governance framework.



# Theoretical Basis - Stakeholder Theory



## Stakeholder Theory

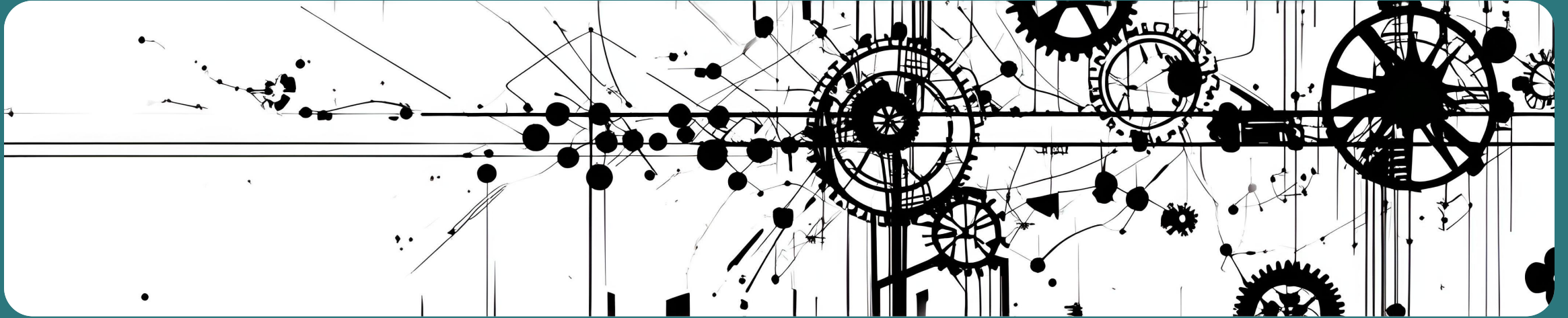
- Stakeholder Theory: This framework establishes that corporate success is intrinsically linked to the well-being of all stakeholders, including employees, customers, suppliers, and communities.
- Theoretical Basis: In medical research, stakeholder theory emphasizes inclusive practices, ensuring that the interests and perspectives of all participants are incorporated into the research process.
- Origin: Emerging from business management principles, this theory focuses on achieving balance between the needs and influence among multiple stakeholders.
- Practical Application: It serves as a tool for analyzing complex social issues in public health and research integrity fields.

## Key Stakeholders

- Researchers: Individuals or teams conducting studies, seeking advancements in medical knowledge and treatments.
- Funders: Organizations providing financial support for research projects, often with vested interests in outcomes.
- Publishers: Entities responsible for disseminating research findings through journals and online platforms, ensuring academic integrity.
- The Public: General population with a vested interest in medical research outcomes, often influencing funding and regulatory priorities.



# Stakeholder Management Challenges



## Core stakeholder management

- Researchers: Direct implementers who ensure the ethical foundation of research.
- Research institutions: Responsible for system design and internal supervision to guarantee research compliance.
- Ethics committees: Independent oversight bodies that ensure human trials meet ethical standards.

## Stakeholder management

- Funders: Influence research direction and avoid the risk of conflict of interest.
- Publishers: Maintain academic credibility through peer review.

## External Stakeholders

- Policy Framework: Establish a robust institutional structure for effective governance.
- Transparency Promotion: Enhance openness via media and public discourse to foster trust.



# Stakeholder Interest Demands and Interplay I

## A zero-sum game among researchers

Researcher Conflict: In academic circles, disputes among researchers over authorship recognition, scholarly contributions, and resource allocation often resemble a zero-sum game – where one party's gain inevitably harms another.

Resource Allocation Controversy: Within constrained resource environments, conflicts between researchers for greater access to experimental funding, equipment usage rights, and publication opportunities have intensified the competitive atmosphere within academia.

## The debate between freedom and performance of researchers and institutions

Academic Liberty: The heart of academia, enabling exploration without constraint, fostering innovation and critical thinking. Performance Metrics: Institutional emphasis on quantifiable outcomes, driving efficiency but potentially stifling creativity and deep inquiry. Resource Allocation: Balancing funds and facilities based on output and impact, crucial for sustainability yet challenging academic freedom. Freedom vs Metrics: The ongoing debate in academia, weighing the need for creative liberty against the demand for measurable success.





# Stakeholder Interest Demands and Interplay II

## Data disclosure choices under financial pressure

Financial Pressure: Researchers may alter data transparency due to sponsors financial influence. Selective Disclosure: Under funding stress, academics might selectively reveal data to please financiers.

## The balance between the interests of institutions and publishers

Academic Influence: Institutions aim to disseminate research findings to enhance academic influence, focusing on knowledge contribution and scholarly impact. Profit Pursuit: Publishers, driven by the market, seek to maximize profits through publication, often prioritizing commercial viability over academic value.

## Negotiations and compromises in multi-party cooperation

Collaborative Partnership: In multi-party collaborations, all stakeholders must clarify their roles, build trust, and share resources to achieve project objectives. Complex Dynamics: The intricate interactions among researchers, institutions, funders, and external partners require effective communication to reach consensus. Negotiation Skills: Master negotiation techniques to balance interests and find win-win solutions. Art of Compromise: When pursuing common goals, learn to compromise while respecting differences and maintaining collaborative harmony.



# Visualizing the Stakeholder Game

## Complex Interplay in Medical Research Ecosystem

Stakeholder Dynamics: The intricate dance and frequent clashes of interests among pivotal players in the medical research domain are depicted.

Diagram Explanation: Figure 1 encapsulates the nuanced relationships and competing agendas within the medical research community's stakeholder network.

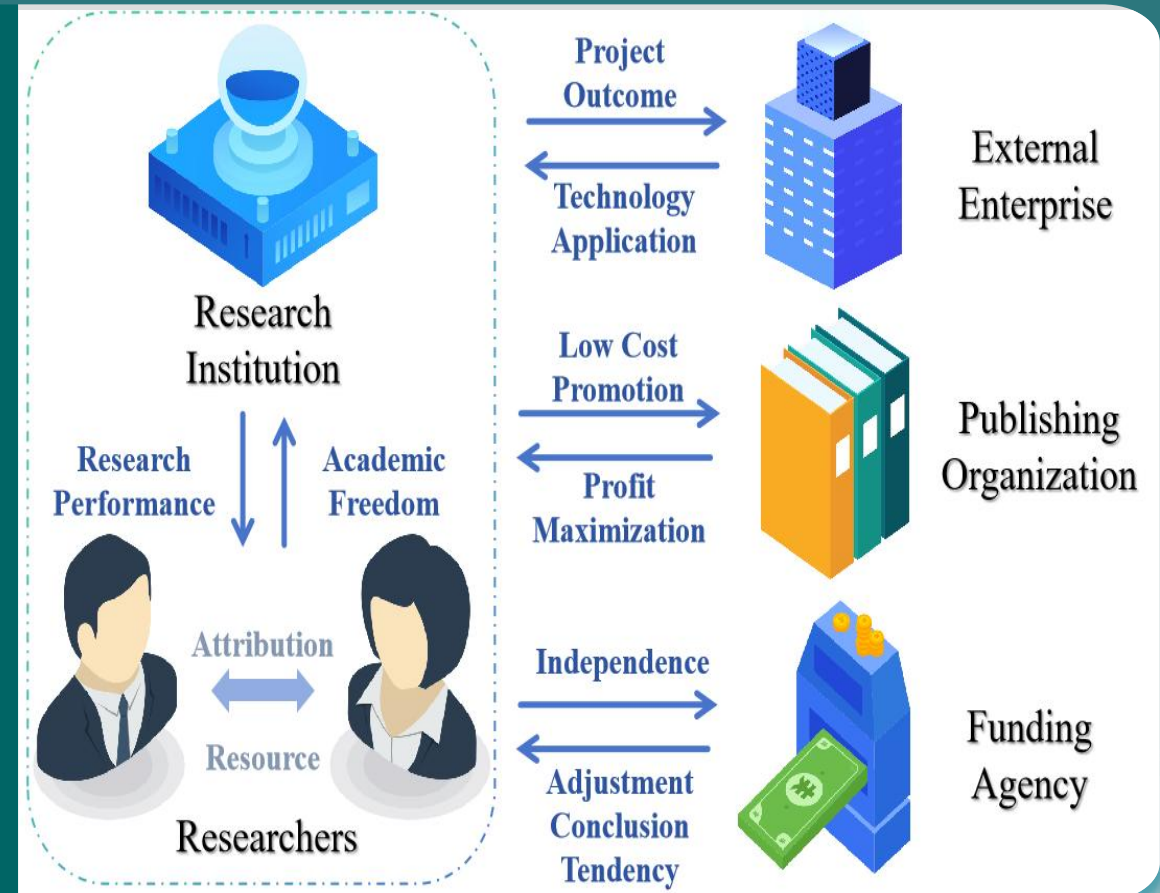


Figure 1 Game of stakeholders in “medical research integrity”

# Collaborative Governance Framework



## Proposed Collaborative Governance Framework

**Stakeholder Roles:** A multi-dimensional approach engaging each stakeholder with distinct roles to enhance synergy and mutual accountability.

**Governance Framework:** outlines the proposed collaborative governance structure, emphasizing integrated efforts and shared responsibilities.

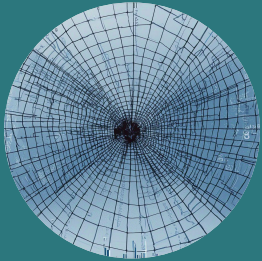


## Government Policy and Institutional Guarantee

**Enhancing Legal Frameworks and Archival Systems:** Optimize legal frameworks to establish a tiered research integrity archive system. **Linking Research Misconduct with Social Credit:** Strengthen collaborative disciplinary mechanisms by integrating research misconduct with social credit systems. **Reforming Cross-Department Collaboration and Evaluation Mechanisms:** Promote interagency coordination, emphasizing innovation quality and reproducibility over mere quantity. **Aligning with International Standards:** Adopt global benchmarks such as the NIH and EU codes of conduct.



# Collaborative Governance Framework



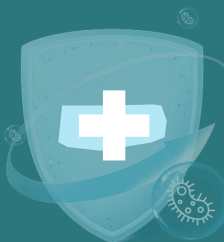
## Publishing Institutions and Transparency

Enhance Peer Review: Strengthen peer review mechanisms through double-blind and data-transparent evaluations. Submit original data and experimental codes: Require submission of raw data and experimental scripts. Establish early warning systems: Develop monitoring mechanisms to track misconduct in high-risk journals. Promote post-publication peer review: Advance "post-publication peer review" practices. Foster open science: Drive transparency in research by implementing open access, preprints, and public databases. Standardize AI content usage: Regulate the application of AI-generated content in academic writing.



## Scientific Research Institutions: Internal Governance and Culture

Establish a robust management framework: Develop a clear and standardized governance system. Strengthen the ethics committees role: Enhance its independence and professional expertise. Implement regular integrity education: Make research ethics training a standard component of academic training for students and researchers. Balance incentive mechanisms: Integrate integrity assessments into performance evaluations while maintaining balanced reward systems.

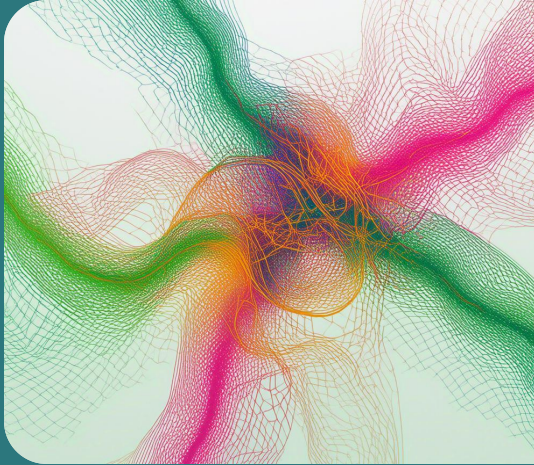




Adherence to Academic Standards and Ethics: Strictly observe academic regulations and ethical guidelines. Ensure Complete Electronic Data Records: Utilize Electronic Laboratory Notebooks (ELNs) to guarantee data integrity and traceability. Proactive Disclosure of Conflicts of Interest: Disclose all potential conflicts of interest proactively. Prioritize Social Value and Safety: Give priority to social value and safety, ensuring clinical trials comply with the Declaration of Helsinki. Engage in Integrity Ecosystem Support for Open Data: Actively participate in integrity ecosystems, support open data initiatives, and report misconduct.



# Conclusion and Future Research



## Overview of conclusions

Summary of conclusions: To build an integrity ecosystem for medical research, multidimensional collaborative governance to enhance accountability and credibility. Framework objectives: The framework aims to improve the transparency and credibility of medical research, and enhance the integrity and fairness of research.



## Future research direction

Verification framework components: Empirical research to validate the effectiveness of framework components. Assess policy implementation gaps: Evaluate policy implementation gaps. Develop conflict resolution tools: Build concrete tools to resolve conflicts of interest and enhance trust. Collect evidence of misconduct: Gather evidence of misconduct in China, assess policy impacts, and optimize strategies.

# Thank You

## Questions

Acknowledgment Response: You're welcome! Always here to help. Feel free to ask any questions. Contact Information: For further inquiries, contact Yuxiaoqian Cheng at [s2023026004@pumc.edu.cn](mailto:s2023026004@pumc.edu.cn). Looking forward to your messages.

