Invitation to Contribute: Special Issue on "Genomic Assessment of Adaptive Potential of Populations to Environmental Challenges: Applications to Management and Conservation"

To be published in Evolutionary Applications

Guest Editors:

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Dear colleagues,

We are pleased to invite you to contribute to a Special Issue of *Evolutionary Applications* focusing on the genomic assessment of adaptive potential in populations facing environmental challenges. This issue will explore how genomic insights can inform effective management and conservation strategies, helping predict responses to environmental changes such as climate shifts, habitat fragmentation, pollution, and the emergence of new pests and diseases.

We encourage contributions that link empirical research to conservation and management applications, including case studies that apply genomic data to practical conservation efforts, such as identifying at-risk populations, designing breeding programs and informing restoration efforts. Contributions that assess emerging genomic technologies, bioinformatics methodologies, and future directions in the field are also welcome.

Additionally, we invite theoretical papers that explore underlying mechanisms of adaptation, even without direct application, to provide a comprehensive overview of genomic approaches in population resilience.

We welcome submissions on:

- Empirical studies on genomic diversity and adaptation to environmental pressures.

- Case studies of successful applications of genomics in conservation.

- Development of conceptual models or tools for assessing adaptation and risk using genomics.

- Integrative approaches combining genomics with other ecological data.

- Discussions on the role of genomic data in policy frameworks.

- Perspectives, commentaries, and opinion pieces on the future of genomics in conservation.

Important Dates:

- **Open Call for Manuscripts:** September 1, 2024

- **Deadline for First Submissions:** April 1, 2025

- **Acceptance Deadline:** November 1, 2025

- **Issue Publication Date:** December 2025

Papers will be available online as soon as they are ready for publication. Please contact any of the guest editors to express your interest. Submissions should follow the guidelines provided through the journal's portal.

Note: All articles accepted and published in *Evolutionary Applications* are fully Open Access: immediately free to read, download, and share.

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We look forward to your contribution to making this Special Issue a significant milestone in the field.

Best regards,

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