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| Book Name: | [**Current Research Progress in Agricultural Sciences**](https://www.bookpi.org/bookstore/product/current-research-progress-in-agricultural-sciences-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5012** |
| Title of the Manuscript: | **Genetic Strategies for Mitigating the Effect of Climate Change on Livestock Genetic Resources** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript is an important contribution to the scientific community as it addresses the critical intersection of climate change, livestock genetic resources, and food security. By highlighting genetic strategies for enhancing resilience, it provides valuable insights for researchers, policymakers, and agricultural practitioners. The discussion on indigenous breeds and genomic tools emphasizes the need for sustainable breeding programs that preserve biodiversity while improving productivity. Moreover, the manuscript promotes interdisciplinary collaboration by integrating scientific advancements with traditional knowledge. Its emphasis on international cooperation and policy development further strengthens its relevance in shaping sustainable livestock management practices. Overall, this work serves as a vital reference for advancing climate-resilient livestock systems and ensuring long-term global food security in the face of environmental challenges.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | The chapter *Genetic Strategies for Mitigating the Effect of Climate Change on Livestock Genetic Resources* is a well-researched and well-articulated contribution to the field of sustainable livestock management. It effectively highlights the critical role of genetic strategies in addressing the challenges posed by climate change, offering valuable insights into how livestock genetic resources can be conserved and enhanced to ensure food security and rural livelihoods.  One of the chapter’s strengths is its comprehensive approach to the subject matter. It successfully integrates scientific research with practical applications, demonstrating a deep understanding of both traditional breeding practices and modern genomic tools. The discussion on animal genetic resources (AnGRs) is particularly insightful, emphasizing their importance in maintaining resilience against climate stressors, particularly in regions where livestock play a fundamental role in local economies.  The emphasis on indigenous breeds and their adaptive traits is another commendable aspect of the chapter. It recognizes the vital role that local knowledge and genetic diversity play in sustaining livestock productivity in challenging environments. The integration of case studies further enhances the chapter’s credibility, providing real-world examples of successful strategies that bridge scientific innovation with traditional expertise.  Moreover, the chapter effectively underscores the significance of international collaboration in developing robust genetic conservation frameworks. By linking genetic improvement programs with conservation and food security policies, it presents a well-rounded perspective that aligns with global sustainability goals.  Overall, this chapter is a highly valuable resource for researchers, policymakers, and practitioners in the field of livestock management and climate resilience. Its clear, well-structured narrative, supported by strong scientific evidence and practical recommendations, makes it an exemplary contribution to the ongoing discourse on climate change mitigation in the livestock sector. |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewers:**

**Medani Bhandari, Akamai University, USA**