

BIOAI-2026

**National Conference
on Bioinformatics and
Artificial Intelligence:
Sustainable
Development in
Agriculture, Health,
Food, Veterinary, and
Humanities**

Organised By:

Society for Bioinformatics &
Biological Sciences (SBBS)

And

Indian Indigenous Society for
Science and Social science
(IISS)

**Hurry
up!**

**On
22nd-23rd August,
2026
(Online mode)**

ABOUT CONFERENCE

BioAI-2026: National Conference on Bioinformatics and Artificial Intelligence for Sustainable Development in Agriculture, Health, Food, Veterinary, and Humanities is a premier national platform designed to explore cutting-edge developments in bioinformatics across interconnected domains. This conference will showcase how bioinformatics tools, including AI-driven analytics, multi-omics integration, and big data processing, are revolutionising research and applications in advanced bioinformatics; health, pharmaceutical sciences & forensic sciences; agriculture; food science; advancing veterinary, fisheries, and animal husbandry sciences; as well as humanities, climate change, SDG-2030, and startups. Drawing inspiration from global trends like AI for biomedicine (e.g., AlphaFold for protein prediction), vetinformatics for disease modeling, and bioinformatics applications in addressing climate change and sustainable development goals, the event aims to foster collaboration among academia, industry, startups, and policymakers to advance these critical fields.

Thematic Areas for BioAI-2026

1. Advanced Bioinformatics and Artificial Intelligence
2. Health, Pharmaceutical Sciences & Forensic Sciences
3. Agriculture
4. Food Science
5. Advancing Veterinary, Fisheries, and Animal Husbandry Sciences
6. Humanities, Climate Change, Green Energy Technology, SDG-2030, and startups

1. Advanced Bioinformatics

Focus: Core bioinformatics methodologies, computational tools, and foundational research driving advancements across domains (e.g., AI, machine learning, and multi-omics integration).

Key Topics:

- AI-driven tools for structural biology (e.g., AlphaFold for protein structure prediction).
- Big data analytics for genomic and proteomic datasets.
- Computational modelling of biological systems (e.g., molecular dynamics with PySCF).
- Algorithm development for sequence analysis and phylogenetics.

2. Health, Pharmaceutical Sciences & Forensic Sciences

Focus: Leveraging bioinformatics for precision medicine, disease modeling, therapeutic development and pharmaceutical sciences, and forensic sciences.

Key Topics:

- Multi-omics for personalised medicine (e.g., cancer genomics).
- AI for drug discovery and off-target prediction in genome editing (e.g., CRISPR).
- Computational epidemiology for infectious diseases.
- Integration of genomic and proteomic data for biomarker discovery.
- Pharmacogenomics, toxicogenomics, translational health research and forensic sciences.

3. Agriculture

Focus: Applications of bioinformatics in precision agriculture, crop improvement, and sustainable farming systems.

Key Topics:

- Genomic tools for crop disease detection and resistance breeding.
- Big data analytics for precision agriculture (e.g., yield optimization).
- Bioinformatics in agrigenomics and plant-microbe interactions.
- Computational approaches to pesticide and fertilizer optimization.

4. Food Science

Focus: Applications of bioinformatics in food safety, nutrition, and cellular agriculture.

Key Topics:

- Computational modeling for food safety and pathogen detection.
- Metabolomics for nutritional profiling and functional foods.
- Bioinformatics in cellular agriculture (e.g., lab-grown meat).
- Data-driven approaches to sustainable food systems.
- Food Informatics, Computational Gastronomy, and Nutrigenomics.

5. Advancing Veterinary, Fisheries, and Animal Husbandry Sciences

Focus: Computational tools for animal health, disease control, and sustainable livestock systems.

Key Topics:

- Farm Animal Medicine, Companion Animal Medicine, Ethnoveterinary Medicine, Veterinary Public Health, Zoonoses, Antimicrobial Resistance (AMR), and Animal Husbandry.

- Farm animal medicine, companion animal medicine, ethnoveterinary medicine, veterinary public health, zoonoses, and antimicrobial resistance (AMR).
- Technological interventions for improving the productivity of animals, poultry, and fishes.
- Improvement of animal health and production through nutritional managements Value addition of animal and fish products.
- Recent developments in prevention, diagnosis and treatment of livestock, poultry and fish diseases.

6. Humanities, Climate Change, Green Energy Technology, SDG-2030, and startups

Focus: Integrating bioinformatics with humanities, climate change, green energy, SDG-2030, and startups to address global challenges through data-driven, interdisciplinary approaches, promoting sustainable solutions, ethical innovation, and entrepreneurial applications in healthcare, the environment, and renewable energy.

Key Topics:

- Climate Change & Sustainability
- Green Energy Technology: Optimizing bioenergy and carbon capture with bioinformatics-driven analytics.
- SDG-2030 Alignment: Applying bioinformatics to achieve SDG goals (health, food security, clean water, and climate action) via data-driven insights.
- Startups & Innovation: Promoting bioinformatics-driven startups for scalable healthcare, agriculture, and sustainability solutions using AI and multi-omics.
- Humanities & Ethics: Exploring bioinformatics' intersection with humanities for ethical and social implications in climate

and health technologies.

- Interdisciplinary Collaboration.

Guideline for Registration:

- Tap on this link: <https://forms.gle/uT6jeJERGrR4ERU38> or the QR code for registration.
- After making the registration payment using the account number and UPI details provided below, the paper or abstract must be submitted to bioai2026@gmail.com by 11:59 PM (Anywhere on Earth) on August 20, 2026.
- Seats are limited. Registration amount: Rs. 600 for student (UG, PG, PhD): Rs. 1000 for scientists/faculty members, etc.
- For those participants who have membership of the society, the registration amount is Rs. 400 for student (UG, PG, Ph.D.), Rs. 800 for scientists/faculty members, etc.
- For those participants who submit a full-length article, the registration amount, including the registration fee and submission fees, is Rs. 1200.
- The SBBS life membership fee for faculty/delegates/research scholars is Rs. 7000, and the award nomination fee is Rs. 3000.
- If you wish to apply for an award nomination, you must be a life member of the society.
- The award nomination fee will be refunded in case the award is not nominated.
- E-certificates will be given for participation/presentation organising, and awards/appreciation will be given for the best three in each thematic area.

SBBS AWARDS

1. Lifetime Achievement Award (Age above 55 years)
2. SBBS Senior Scientist Award (Age 45 - 55 years)
3. Outstanding Achievement Award
4. Distinguished Scientist Award (Bioinformatics)
5. Women Scientist Award
6. Young Scientist Award (Age below 40 years)
7. Late Smt Rahibai Ramteke Young Women Scientist Award (Age below 40 years)
8. Young Research Scholar Award

Registration link for both Life membership & awards

nomination: <https://forms.gle/aCRxz5rjsUgoKLuLA>

Registration link for Only Life membership:

<https://forms.gle/q3fypx1DR9tPxEGU7>

For any queries:

Dr. Satendra Singh, 09565448367,

Email: bioinformatic.biology@gmail.com

Website: www.sbbsindia.in

Payment details

Account Name: Satendra Singh

Bank Name: State Bank of India

Account number: 30074700809

IFSC Code: SBIN0002506

Scan to pay UPI ID:

satendralike@oksbi



Call for Abstract/Paper Submission

Abstracts not exceeding 300 words with a maximum of 6 keywords on any of the aforesaid themes should be submitted through email to bioai2026@gmail.com for consideration of an oral/poster presentation. A full-length research paper not exceeding 6000 words should be submitted through the online portal mentioned above. The time allotted for oral presentation is 8-10 minutes in duration. Presentations should preferably be prepared on MS PowerPoint/Keynote. Research works on the above-mentioned thematic areas can also be submitted through electronic posters (e-posters) by individuals. Three best oral/poster presentations and e-posters from each session will be awarded. The best research articles from major scientific areas will be awarded.

Publication

Journal:



IJLSAS is a peer-reviewed open access journal. It publishes original articles, research papers, and reviews in all areas of life sciences and applied sciences. IJLSAS is a multidisciplinary journal, and the NAAS rating is 3.17. Each article will receive a unique Digital Object Identifier (DOI), which serves as a permanent digital reference for the work. This DOI ensures that the article is instantly integrated into global research databases, making it easily discoverable and accessible to readers worldwide. Full-length research papers and review articles may be published in the International Journal of Life Sciences and Applied Sciences (<http://www.ijlsas.com/>).

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- Mr. S. N. Singh

Technical committee:

- Er. Aniket Yadav
- Er. Prateek Paul

Contact Persons:

Dr. Satendra Singh: +91 9565448367

Er. Sharad K. Jaiswal: +91 8171252968,

Email: bioai2026@gmail.com



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