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About the Nigerian Academy of Science

The Nigerian Academy of Science (NAS) is the foremost independent scientific body in Nigeria, which was established in 1977, and incorporated in 1986. NAS is uniquely positioned to bring scientific knowledge to bear on the policies/strategic direction of the country and is dedicated to the development and advancement of science, technology, and innovation (STI) in Nigeria. The aims and objectives of the Academy are to promote the growth, acquisition, and dissemination of scientific knowledge, and to facilitate its use in solving problems of national interest. The Academy strives to do this by:

- Providing advice on specific problems of a scientific or technological nature presented to it by the government and its agencies, as well as private organizations.
- Bringing to the attention of the government and its agencies problems of national interest that science and technology can help solve.
- Establishing and maintaining the highest standards of scientific endeavours and achievements in Nigeria, through the publication of journals, organization of conferences, seminars, workshops, and symposia, recognition of outstanding contributions to science in Nigeria, and the development of a working relationship with other national and international scientific bodies and academies.

As with national academies in other countries, NAS is a not-for-profit organization with a total membership (since inception) comprising 298 Fellows, elected through a highly competitive process, who have distinguished themselves in their fields, both locally and internationally. Some of her members have served as Vice-Chancellors of universities, Directors-General of government Parastatals and Ministers in federal ministries. The Academy, given its prestige, also can attract other experts from around the country and internationally when needed.

NAS is Nigeria's national representative on such bodies as the International Science Council (ISC) – the umbrella body for all science associations and unions – and the Inter-Academy Partnership (IAP) – the umbrella body for all national science academies globally. The Academy is also a member of the Network of African Science Academies (NASAC).

Regionally, the Nigerian Academy of Science is one of eight founding academies of the Network of African Science Academies (NASAC) and has served on its Executive Committee until date. The Academy has played a major role in the development and establishment of academies in Africa. In November 2012 and 2017, the Nigerian Academy of Science hosted the African academies for the 8th and 13th Annual Meeting of African Science Academies (AMASA), in Lagos and Abuja respectively. The Nigerian Academy of Science has signed agreements with counterparts in many African countries (and beyond) to ensure scientific exchange and partnership.

As the peak independent scientific body in Nigeria, the Academy serves as the umbrella body for all science associations in the country, speaking for the same within and outside the country. The Academy holds periodic meetings with representatives of the associations to discuss the state of science in Nigeria and proffer solutions for improvement.

Some of the recent accomplishments of NAS include:

1. The development of a training manual on getting research into policy and practice,
2. The organization of an international conference on climate change in Lagos,
3. Implementation of a project on linking agriculture and nutrition,
4. The organization of a national consensus building workshop on the prevention of maternal and child mortality in Nigeria,
5. Conveying a media roundtable meeting to discuss issues of depression and suicide prevention,
6. Conveying a roundtable meeting to discuss the issues related to the Ebola Virus Disease epidemic that recently affected the country and the West African region,
7. Implementation of an intervention program to address the social and reproductive health issues of the youth in Ekiti and Nasarawa States of Nigeria,
8. The hosting of all African academics and other scientists at an international conference on STI education and manpower development in Africa,
9. The organization of a summit to discuss the role of women in science and sustainable development in Nigeria,
10. The organization of a workshop to discuss the evolution of big data and artificial intelligence (AI), and the impact of education on training,
11. A consensus study on the evolving science advisory landscape in Africa,
12. Organization of webinar and policy roundtable to create awareness and proffer policy recommendations in combatting predatory academic practices in Nigeria,
13. The organization of a research mentorship programme to enhance scientific research capacity in Nigeria, as well as facilitating an enabling environment for research and researchers to thrive.

About the Proceedings of the Nigerian Academy of Science

The *Proceedings of the Nigerian Academy of Science (PNgAS)* is the peer-review official journal of the Nigerian Academy of Science, one of Africa's leading science Academies and the foremost independent scientific body in Nigeria. The regular edition of the journal is a multidisciplinary publication, with the primary objective of disseminating original research, systematic reviews, and meta-analysis in all Science, Technology, Engineering, and Mathematics (STEM) disciplines, especially those that address national and regional developmental challenges. The journal publishes articles that are based on deep-seated formative research using large and multi-center datasets that leads to a better understanding of the context of science-related developmental challenges and appropriate pathways for accomplishing change in the following scientific disciplines:

PHYSICAL SCIENCES	BIOLOGICAL SCIENCES
Mathematical Sciences	Biochemistry, Molecular Biology, & Biotechnology
Physics, Astronomy, & Space Sciences	Medical Sciences – Clinical Sciences
Chemical Sciences	Medical Sciences – Basic & Allied Sciences
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Earth & Environmental Sciences	Biological Sciences
	Agricultural & Forestry Sciences
	Veterinary Sciences

The journal publishes two regular editions and at least one special edition each year. The journal is primarily intended for use in the scientific community, but its multidisciplinary nature also makes it accessible to researchers, educators, students, and readers interested in current issues and development.

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Proceedings of the Nigerian Academy of Science

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12. **A journal article may be referenced thus:**
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Hill AV (1991) in *Molecular Evolution of the Major Histocompatibility Complex*, eds Klein J

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