

**COMPENDIUM OF RESEARCH PUBLICATIONS OF
THE NATIONAL INSTITUTE FOR PHARMACEUTICAL
RESEARCH AND DEVELOPMENT (NIPRD), ABUJA,
NIGERIA (1990- 2009)**

Compiled By

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Objectives of the work:

The work, Compendium of research publications from the National Institute for Pharmaceutical Research and Development (NIPRD), Abuja Nigeria, was undertaken in order to put together an index of all publications which came up as a result of intense research activities in the Institute for the past 20 years. This effort was also to support the Management's quest to update its research efforts for effective dissemination of the Institute's research output and resource sharing amongst researchers in Nigeria and the wider world.

This publication is also to create a ready-made reference material of our own which would give a lead or direction to new research topics, ideas, opportunities and collaborations and also reduce or prevent duplication of research efforts and waste of human and material resources. The work will be useful to researchers, students and those in authority in the relevant Ministries, Department and Agencies (MDAs). The present work was limited to listing of titles of publications in addition to few other bibliographical contents but abstracts of the publications will be included in the next edition.

Arrangement of entries:

Entries made in this compendium are arranged alphabetically and presented in the American Psychological Association (APA) style using the first listed name of the author of the published article as retrieved from several reference sources used or as submitted to the editorial crew. This arrangement was also presented sequentially year by year. Efforts were made to avoid repetitive entries by using the principal (first listed) author as the main entry in the document. Titles of journals were given as presented in the sources used for the work.

Where names of first listed author appeared with initials before a given full name (e.g. **S.C. Ugwuona**), arrangement in the compendium is transcribed as **Ugwuona, S.C.** This is then followed by names of other co-authors of the article in the format originally given. Attempt was made to start all entries with surnames of authors throughout the entry except for cases which could not be determined.

Publications that are listed contain: (a) names of staff members currently serving in the National Institute for Pharmaceutical Research and Development, Abuja. (b) Names of staff who once served in NIPRD and (c) Names of staff elsewhere who work in collaboration with the NIPRD staff on a research project. Finally, some staff of the Institute has publications that pre-date the establishment of NIPRD but the interest or focus of this work is on publications that have emanated from the research activities of NIPRD since inception in 1989. Thus all publications pre-dating 1989 in the Institute are excluded here.

NIPRD IN BRIEF

Our Vision:

To build a center of excellence for R & D of phytomedicines, pharmaceuticals and biological products for the service of mankind.

Our Mission:

To apply appropriate modern science and technology resources to stimulate local raw materials production through effective collaboration with the industry and other experts within and outside Nigeria; develop herbal medicines to pilot stage for local entrepreneurs/manufacturers; develop quality standards of herbal and orthodox drugs for purpose of control and regulation; provide quality assurance service on all drugs used for healthcare delivery in Nigeria; provide safety data and essential information on herbal and other drugs that are used in Nigeria and make Nigeria self-sufficient in the production of its essential drugs in a way that would guarantee the overall health of Nigerians.

The beginning

In Nigeria, the need for the advancement of indigenous pharmaceutical research and development (R&D) in order to enhance development and commercialization of pharmaceutical raw materials, drugs and biological products has long been recognized. Therefore in 1987, the Federal Government approved the establishment of the **National Institute for Pharmaceutical Research and Development, NIPRD** as a parastatal under the Federal Ministry of Science and Technology. This approval was based on the recommendation of the Pharmaceutical Society of Nigeria (PSN).

The institute was established under the Science and Technology Act of 1980 with the primary objective of developing drugs, biological products and pharmaceutical raw materials from indigenous resources. The PSN and the Pharmaceutical Manufacturer's Group of the Manufacturers Association of Nigeria (PMG-MAN) made financial contributions toward the take –off of the institution. The Institute is governed by a board of governors with representatives from the PSN, PMG-MAN, Traditional Medicine Practitioners, Federal Ministry of Health and the Federal Ministry of Science and Technology. The chief executive of the institution serves as the secretary to the board.

The foremost activity of the institute following its establishment was the organization of an international Workshop on **Strategies and Priorities for Indigenous Pharmaceutical Research and Development** in October 1989. The proceedings of the workshop was published in 1991 but before then, the institute had embarked on the documentation of medicinal and aromatic plants within the Federal Capital Territory of Nigeria. The data

collated during the ethno-botanical survey was useful in the compilation of a National Compendium of Medicinal and Aromatic plants in Nigeria.

The institute has a group of highly trained manpower with about 45% of the Researchers holding Ph.Ds and many others with M.Sc degree in their respective fields of study. The research fellows actively publish in peer reviewed scientific journals and are always in attendance to meetings and international conferences. As a result, the institute is well known in the field of medicinal plant research. The R & D projects of the institute include:

1. Development of phyto-medicines for the management of sickle cell disorder, tuberculosis, malaria, ulcer, fungal infections, HIV/AIDs and other diseases of national priority using modern technologies and equipment in line with global standards.
2. Operational research aimed at providing evidence-based answer national health questions.
3. Development of Active Pharmaceutical Ingredients (APIs) and excipients (e.g pharmaceutical grade starch and kaolin, Artemisinin, etc).

At the first Expert Group Meeting on “Industrial Utilization of Medicinal and Aromatic Plants” in West Africa organized by UNIDO and NIPRD (1-5 November, 1993), 12 countries of the sub-region recommended the recognition of NIPRD as a Regional Center of Excellence in this field.

ORGANIZATIONAL STRUCTURE OF THE INSTITUTE

There are five technical, two non-technical departments and other service units of the institute.

Technical Departments

1. Medicinal Plants Research and Traditional Medicine (MPR & TM) Dept.
2. Medicinal Chemistry and Quality Control (MCQC) Dept.
3. Microbiology, Human Virology and Biotechnology (MBT) Dept.
4. Pharmacology and Toxicology (P & T) Dept.
5. Pharmaceutical Technology and Raw Materials Development (PT & RMD) Dept.

Non-technical Departments

6. Administration Department
7. Accounts and Finance Department

Overall coordination is carried out by office of the DG/CEO comprising of the following units: Library, ICT, Planning Monitoring and Evaluation, Clinic, Legal, Procurement, Consultancy, Audit and Public Relations units.

FUNCTIONS OF THE INSTITUTE

The functions performed by the institute include the following:

- Undertake research and development activities on drugs, biological products including vaccines and pharmaceutical raw materials from indigenous natural resources and by synthesis using appropriate science and technology methodologies.
- Conduct appropriate investigations and consequent applications in the areas of evaluation, preservation, purification, standardization, safety and rational utilization of traditional medicine.
- Develop methodologies for quality assessment of biological products, orthodox and herbal medicines including their raw materials
- Serve as reference center for research work on the biopharmaceutics, pharmacokinetics, storage and stability of imported and locally manufactured drugs and biological products
- Conduct research and development work into pharmaceutical biotechnology, nutrition, cosmetics and environmental science for improved quality of life and the conservation of medicinal and aromatic plants
- Establish and operate a quality assurance laboratory for pharmaceutical raw materials and products
- Promote and sponsor staff development through training courses, workshops and fellowship within and outside the country
- Promote and sponsor the local development and production of drugs, vaccines, pharmaceutical machinery, devices and accessories
- Promote the pilot production unit of the institute into a limited liability business venture
- Transfer pharmaceutical products and machinery technologies to private sector industries and render consultancy and extension services to such and other organizations
- Establish and maintain relevant laboratories, clinics, medicinal plants gardens in strategic ecological zones of Nigeria as may be necessary for the performance of the functions
- Compile and publish relevant data resulting from the performance of the functions of the institute

- Sponsor such national and international conferences, workshops and symposia as may be considered appropriate
- Patent and register new products and processes with appropriate national bodies, international organizations and selected countries
- Enter into commercial and other appropriate agreements with relevant national and multinational corporations regarding the marketing and utilization of the institute's products and services
- Liaise with higher institutions, government organizations, multinational bodies and other relevant establishments within and outside Nigeria in the pursuance of the mandate of the institute
- Establish and develop drug information system, collate and synthesize relevant research information for drug manufacturing industries and research centers.

FORWARD

The starting point of most new research is unquestionably formulation of a general question about the area of research. The initial question could be very broad and needs a trim. There is therefore the need for a literature search. A literature search is a well thought out and organized search for all of the literature published on a topic. A well-structured literature search is the most effective and efficient way to locate sound evidence on the subject one is researching on and this is done mostly with primary information sources such as this publication.

NIPRD Compendium of research publications was developed to serve as a primary information resource that will track the various researches conducted in the Institute. With the compendium, duplication of research effort is practically checked and valuable time and resources are saved as well.

The position of the authors and their collective experience with regards to their professions, form a formidable advantage that enabled the production of this primary resource. I am particularly interested in this work because it has delivered a readymade reference tool for the institute, the students, researchers and scientists, especially those in the field of Pharmaceutical Sciences. As I look forward to the second edition which is promised to appear in annotated form, I recommend the present for use by all researchers, technologists, scientists, industrialists and students who have any role to play in the drug science, herbal or orthodox.

Prof. C.O.N. Wambebe, FAS

Fmr. Director General/CEO, NIPRD, Abuja-Nigeria

ACKNOWLEDGEMENTS

The dissemination of research findings to relevant stakeholders for utilization is as important as the conduct of the research itself and this is a key component relevant to our national development. Efforts were made in time past to compile a series like this and it is noteworthy that such efforts had yielded this publication.

The difficulties encountered and the commitments advanced by the authors of this work in order to ensure the success of the contribution is worthy of commendation and sincerely urge that subsequent issues of the Compendium will come as at when due.

My sincere appreciation also goes to the following:

1. The past Directors and Director Generals of the Institute for establishing the research culture in NIPRD. We have all improved on this and would continue to do so.
2. Heads of the technical departments in NIPRD- For coordinating the submissions of the staff throughout the period of the work and who were also involved in editing the contents of the work.
3. The publishers of all the journals, texts and other documents consulted on the course of compiling this Compendium, Researchers in NIPRD, Abuja (former and current) - For endeavouring to make their contribution to the global scientific knowledge platform through their publications and the bibliographic details made available in the required format to the compendium authors.

I equally acknowledge other collaborating bodies with NIPRD who have funded research activities in NIPRD through funding or capacity building gestures and those individuals whose research articles have appeared in the Compendium. It is strongly believed that the work will go a long way to serving every one of us as a reference source for the research output in the field of Pharmaceutical Sciences in Nigeria and beyond.

Thank you all.

Dr. Ufford S. Inyang

Former Director General/CEO, NIPRD

LIST OF PUBLICATIONS

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