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Impact Evaluation Study of Biotechnology Publishing in Nigeria

Chiazor C. Steven*, Omonhinmin A. Conrad

Covenant University, Department of Biological
Science, Nigeria.

*University of Benin, Department of Plant biology
and Biotechnology

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Introduction

- Biotechnology is remarkably experiencing a revolution in affecting every facet of lives. (Mohammad and Byong, 2014)
- Publishing scholarly articles confers various benefits to researchers, institutions, industries and nations in the innovation circles, particularly for emerging areas like biotechnology in developing countries (Fabrizio, 2009; Cockburn and Henderson, 1998)
- Corporate and researchers alike develop and keep up a proficiency that is integral to productive exploitation of scientific knowledge.

Objectives

- The main objective of this study is to analyze Nigerian contribution in global biotechnology research from 2009 to 2018 in view to
- (i) comparatively evaluate levels of biotechnology publications with another nation, and
- (ii) prove its reflective effects on industries' products and innovation.

Methodology

- Employing DIMENSIONS® analytical tool covering 2000 journal publishers globally, and major indexes including; PubMed, DOAJ, ERA (Provided by SCOPUS); and the Norwegian register (1 & 2) with a cumulative size of 94,592 journals.
- A 9 years period (2009 to June 2018) was reviewed for data on publications.
- Search term: Biotechnology
- Search strategy: TITLE-ABS-KEY (“Biotechnology”) AND PUBYEAR >2009 AND PUBYEAR <2018
- (TITLE-AS KEY (“Biotechnology”) AND AFFIL (Nigeria) AND PUBYEAR >2009 AND PUBYEAR < 2018

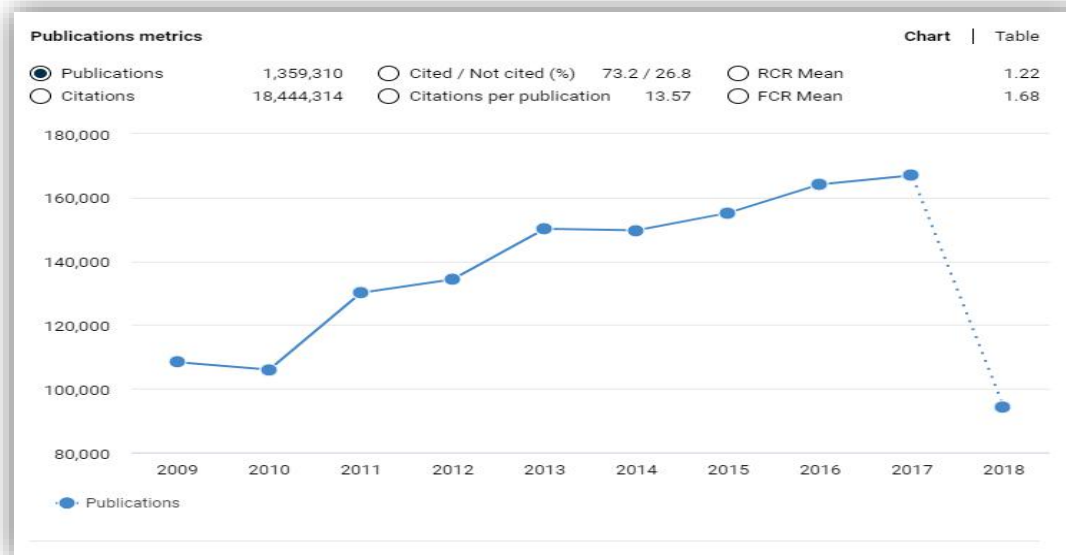
Experimental Setting

- Quantitative Analysis;

Descriptive statistics

Results and Discussion

- Research progression of Global and Africa biotechnology Publications from Dimensions® .
- Total output of scholarly publications in the world is 1,358,287, and 123,161 from Africa.



• Fig.1

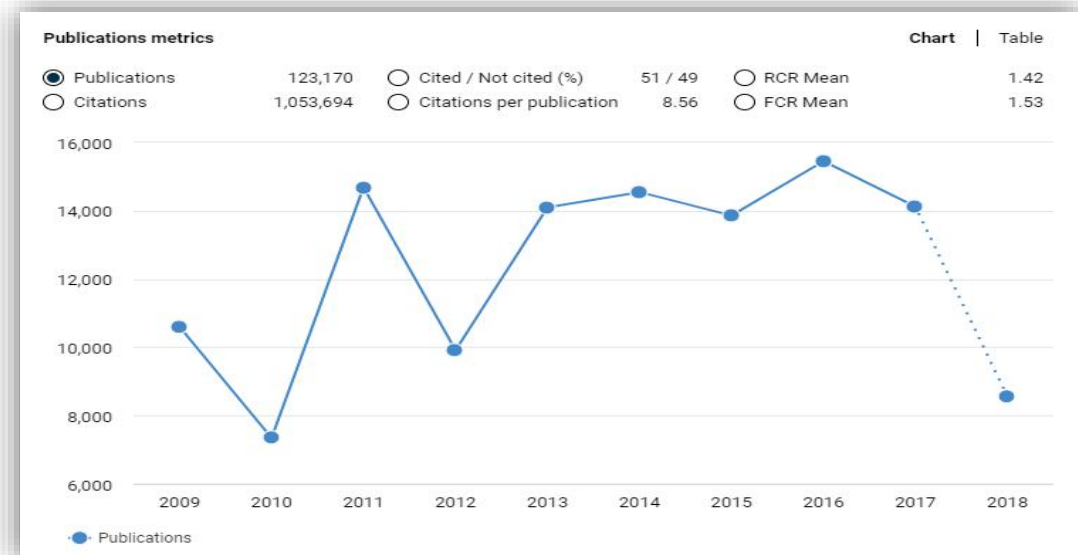


Fig.2

Results and Discussion

- Research progression of biotechnology scholarly publications in Nigeria and South Africa from Dimensions®



• Fig. 3

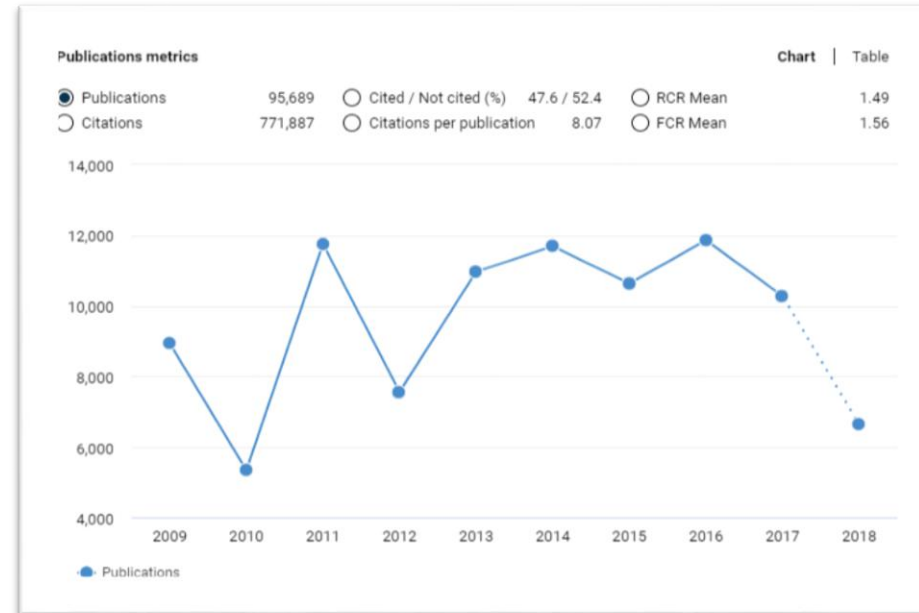


Fig. 4

Conclusions & Recommendations

- A total of 1,358,287 biotechnology publications were generated globally. Africa contributed a mere 0.09% (123,161) publication, with 18.6% (22,879) from Nigeria, and 77.7% (95,685) from South Africa.
- Comparatively, publications from selected research areas for Nigeria : South Africa, shows; Medicine (34% : 27%), Social Science (33% : 31%), Engineering (21% : 28%), Mathematics (6% : 7%) Biotechnology (6%: 7%).
- Although academic researches and publications have contributed to innovative growth in biotechnology in advanced countries and have the potential to do so in Nigeria, publication volume has significantly declined since 2014 for Nigeria, and this may further alienate Nigerian researchers and scientific activities in biotechnology research circle.
- However, scholarly publication level from the biotechnology circle in Nigeria requires greater efforts if the budding biotechnology industry in Nigeria must thrive.

References

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- Text



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