

# Chapter 14

## Authorship Pattern and Collaborative Research Productivity of *Asian Journal of Dairy and Food Research* During the Year 2011 to 2015

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### ABSTRACT

*The chapter brings out the results of a bibliometric analysis of the journal titled Asian Journal of Dairy and Food Research for the period from 2011 to 2015. The data was downloaded from the journal's website. This study aims at analyzing the research output performance of co-authorship index and collaborative index. The analysis covers mainly the publication of articles, year-wise distribution of articles, degree of collaboration, institution-wise distribution, authorship pattern, etc. The results show the merits and weakness of the journal which will be helpful for its further development.*

### INTRODUCTION

The term bibliometrics was derived from “*biblion*” (Greek) meaning book and “*metron*” (Greek.); meaning measure; and was introduced by Pritchard in 1969. Pritchard's article “Statistical Bibliography or Bibliometrics” appeared in the December issue of the Journal of Documentation in 1969. He stated, “the term (Statistical bibliography) is clumsy, not very descriptive, and can be confused with statistics itself or bibliographies on statistics”. In the same issue of Journal of Documentation appeared Robert A. Fairthorne's classic article “Empirical Hyperbolic Distributions (Bradford-Zipf-Mandelbrot) for Bibliometric Description and Prediction”, in which the author used the word “bibliometric” and acknowledged Alan Pritchard as the donor of the term.

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## **REVIEW OF RELATED LITERATURE**

Papreja and Shukla (2016) conducted a bibliometric analysis of 539 articles published in the journal titled “Dental Clinics of North America” during 2004 to 2014 has been carried out. The paper analyzed year wise distribution of paper, average length of paper, authorship pattern, bibliographic form of documents, distributions of citations and subject trends of articles published in the journal. The result shows that the journal on an average has published 49 research articles per year and majority of the papers were contributed by two authors. Most of the articles dealt with general dentistry. The average length of the paper is 17 pages per article and journals are the most predominant form of citations.

Anil Kumar, Mallikarjun Dora and Asha Desai (2015) attempted to undertake bibliometric analysis of the research publications of Gujarat University during the ten-year period between 2004 and 2013. The data for this study was extracted from SCOPUS and included a total of 760 publications that were attributed to authors affiliated to Gujarat University. The publication data was analyzed with respect to the type of publications where 83% are journal articles. The paper also analyzed the publication trend of Gujarat University and found that from 2008 onwards there was a steady increase in the number of publications. The other aspects that were identified in the paper were the most prolific authors, collaborative authorship patterns and trends, most preferred publications, and so on.

Shanta and Betageri (2015) presented the findings of a bibliometric study one of the renowned Journal of Dairying, Foods and Home Sciences into consideration with an aim to analyze the contributions of the author and the citations received by various articles published in it. The paper covered the bibliometric aspect of year wise distribution of articles, subject wise distribution of articles and authorship of contributions. The study analyzed 34 issues containing 542 articles published in the said journal from 2003-2012. Highest number (65) of articles was published in 2013. Most of the articles 283 (52%) were 1-4 pages long.

Surwase, et al (2014) studied with the aim to analyze the global publication trends on food preservation using Scopus database for the period 1998-2012. The database contained 17511 publications on food preservation. The study analyzed the broad features of literature on food preservation focusing on year-wise distribution of publications, highly productive countries, international collaboration, activity index, highly productive institutes, methods of food preservation, preservation by food types, and channels of communication

When a single journal is studied bibliometrically, it creates a portrait of the journal, providing a description that offers an insight that is beyond the superficial. It can indicate the quality, maturity and productivity of the journal in any field, in a country or region (Anyi, Zainab & Anuar, 2009). The studies reviewed show the importance of bibliometric studies focusing on a journal publishing food science articles. Asian Journal of Dairy and Food Research is the official publication of the Agricultural Research Communication Centre. It provides a forum for the scientific community to publish their original research articles in the field of Dairy and Food Science. Hence this journal was subjected to a bibliometric study focusing on the growth of literature and collaboration.

## **OBJECTIVES OF THE STUDY**

- To know the year wise distribution of articles.
- To know the issue & month wise distribution of articles.

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