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Regenerative implantable medical devices: an overview

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The objective of this study was to conduct a bibliometric evaluation and trend prediction of English literature on animal-derived regenerative implantable medical devices based on tissue engineering technology. Data identified by a search strategy with 11 combinations of keywords before 1 January, 2014 were downloaded from 8 databases on 25th November, 2014. The study analyzed publication year, journal preference, authors' geographic location, and research topics. Research on animal-derived regenerative implantable medical devices is gradually increasing. The majority of the first authors are from colleges or universities. Approximate one third of the papers were the result of cooperation of different institutions. The top five productive countries are USA, China, UK, Germany and Italy. Biomaterials is the main literature source. Bradford's law analysis shows that a core journal area has formed. The active areas of research and future research directions are scaffold materials, biocompatibility, growth factors and extracellular matrix. Research of animal-derived regenerative implantable medical devices has attracted more and more attention from the academia. But most of the research achievements are generated by a few developed countries. Researchers around the world need to complement each other in knowledge and academic resources by communication and cooperation.

Biography

Hongman Wang has received her PhD degree from Traditional Chinese Medicine of Peking University (China) in 1998 and served as a Post-doctoral Researcher at Peking University (China) in 1999-2000. Her research is focused on social decisions and social sciences, global health and social development. During the last 10 years, she has published over 100 papers, 4 monographs, and given about 100 invited lectures in various meetings and conferences. Currently, she is a Professor and the Head of the Center for Health and Social Development, Institute for the Medical Humanities of Peking University Health Science Center.

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