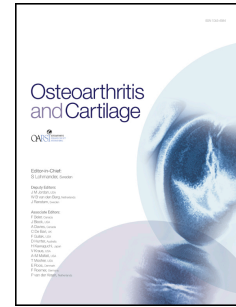


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Osteoarthritis Year in Review 2017: Genetics and Epigenetics

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10 **Summary**

11 Objective: The purpose of this review is to describe highlights from original research
12 publications related to osteoarthritis (OA), epigenetics and genomics with the intention of
13 recognising significant advances.

14 Design: To identify relevant papers a Pubmed literature search was conducted for articles
15 published between April 2016 and April 2017 using the search terms 'osteoarthritis' together
16 with 'genetics', 'genomics', 'epigenetics', 'microrna', 'lncRNA', 'DNA methylation' and
17 'histone modification'.

18 Results: The search term OA generated almost 4000 references. Publications using the
19 combination of descriptors osteoarthritis and genetics provided the most references (82
20 references). However this was reduced compared to the same period in the previous year;
21 8.1% to 2.1% (expressed as a percentage of the total publications combining the terms
22 osteoarthritis and genetics). Publications combining the terms osteoarthritis with genomics

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