

Erratum to: PATCHED-ONE or SMOOTHENED Gene Mutations Are Infrequent in Chondrosarcoma

Taiqiang Yan MD, Mark Angelini MD, FRCSC,
Benjamin A. Alman MD, FRCSC, Irene L. Andrulis PhD,
Jay S. Wunder MD, MSc, FRCS(C)

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The Abstract for this article was incorrectly identified and typeset as the first of two Introductions. Reprinted below is the Abstract in its entirety:

Abstract Constitutive hedgehog signaling has been implicated in the tumorigenesis of cartilaginous neoplasia; however, a common mutational mechanism remains unknown. Some tumors exhibiting hedgehog pathway activation such as basal cell cancer frequently harbor PATCHED-ONE (*PTCH-1*) or SMOOTHENED (*SMO*) gene mutations. We therefore asked whether mutations of the hedgehog receptor genes *PTCH-1* or *SMO* occur in cartilage tumors. Singlestrand conformation polymorphism (SSCP) analysis with subsequent manual sequencing was

performed to detect alterations of *PTCH-1* and *SMO* in 46 cartilage tumors. SSCP detected five shifts in the *PTCH-1* gene and two shifts in *SMO*. Direct DNA sequencing revealed the five shifts in *PTCH-1* were caused by silent nucleotide alterations. The two *SMO* shifts were the result of the same missense mutation (783G>A) and occurred in one dedifferentiated chondrosarcoma and a synovial chondromatosis. The patient with chondromatosis also carried this same mutation in the germline. However, this mutation was also identified in leukocyte DNA from three of 127 (2.4%) control subjects without cartilage tumors, suggesting it may represent a rare *SMO* variant. Constitutive activation of the hedgehog signaling pathway in chondrosarcoma is rarely caused by *PTCH-1* or *SMO* mutations.

CORR and Springer regret this error.

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T. Yan
Department of Orthopaedic Oncology, People's Hospital,
Beijing University, Beijing, China

M. Angelini, I. L. Andrulis, J. S. Wunder
Program in Molecular Biology and Cancer, Samuel Lunenfeld
Research Institute, Toronto, Canada

M. Angelini, J. S. Wunder (✉)
University Musculoskeletal Oncology Unit, Mount Sinai
Hospital, University of Toronto, 476-600 University Avenue,
Toronto, ON, Canada M5G 1X5
e-mail: jwunder@mtsinai.on.ca

B. A. Alman
Division of Orthopaedics and Program in Developmental and
Stem Cell Biology, The Hospital for Sick Children, University
of Toronto, Toronto, Canada