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

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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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