## ADDENDUM

In Section 9 of the paper, I apply the main result to some concrete classes of surfaces. It should be pointed out that for surfaces S with  $p_g = q = 1$  and  $K^2 = 3$  we obtain the Tate conjecture and the Mumford–Tate conjecture in all cases, not only if the general Albanese fiber has genus 3 (which is case (e) in Theorem 9.4). Namely, in the paper [11] by Catanese and Ciliberto, it is shown that (for  $p_g = q = 1$  and  $K^2 = 3$ ) either the general Albanese fiber has genus 3, or there exists a curve Aof genus 1 and a dominant rational map  $S \dashrightarrow A^{(2)}$  to the second symmetric square of A. This implies that the motive  $\mathbf{H}^2(S)$  is isomorphic to the sum of  $\mathbf{H}^2(A^{(2)})$  and some copies of  $\mathbf{Q}(-1)$ . As the Mumford–Tate conjecture is true for  $A^{(2)}$ , this gives what we want.