

Online Supplementary data

	6 weeks	12 weeks	18 weeks
N-AIR	n=12	n=12	n=12
N-SMOKING	n=12	n=12	n=12
D-AIR	n=14	n=15	n=13
D-SMOKING	n=12	n=15	n=13

Supplementary Table 1. Number of animals per group and per time period in mice with sufficient vitamin D levels exposed to breath room air (N-AIR) or cigarette smoke (N-SMOKING) or vitamin D deficient mice exposed to room air (D-AIR) or cigarette smoke (D-SMOKING).

Legends

Supplementary Figure 1. Representative illustrations of sagittal lung sections stained with hematoxylin and eosin in mice with normal or deficient vitamin D serum levels breathing room air (air) or cigarette smoking (smoking) at 18 weeks.

Supplementary Figure 2. Representative illustrations of immunohistochemistry staining of the different myosin heavy chains in the EDL (top) and soleus (bottom) muscle at 18 weeks in mice with normal (N) or deficient (D) vitamin D serum levels breathing room air (air) or cigarette smoking (smoking). Blue fibers represent the type I fibers, green fibers the type IIA fibers, black fibers the type IIX fibers and red fibers the type IIB fibers.

Supplementary Figure 3. Representative illustrations of immunohistochemistry staining of the vitamin D receptor in the soleus muscle at 18 weeks in mice with normal (top) or deficient (bottom) vitamin D serum levels exposed to room air. Blue spots represent the nuclei. White arrows indicate the positive spots representing the expression of VDR.