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Functional characterization of Toll-like receptor 4 (TLR4) in salt-sensitive hypertension. Toll-like receptor 4 (TLR4) has been implicated in the pathogenesis of hypertension. Hypertension may be induced by various environmental factors, including high salt intake. However, the role of TLR4 in salt-sensitive hypertension remains unclear. In the present study, a rat model of salt-sensitive hypertension was used to determine the functional role of TLR4 in this model. Male Dahl salt-sensitive (DS) rats and Dahl salt-resistant (DR) rats were maintained on 0.3% or 8% NaCl diets. Blood pressure was measured with a tail-cuff method in conscious rats. Protein expression levels of TLR4 were determined by Western blot analysis, and TLR4 functional activity was assessed by transient expression in HEK293T cells. Blood pressure was significantly higher in DS rats than in DR rats on either diet. The expression level of TLR4 was significantly higher in DS rats than in DR rats, irrespective of diet, and the TLR4 expression level was higher in DS rats than in DR rats on the high-salt diet. A time-dependent increase in TLR4 mRNA was detected in cultured aortic smooth muscle cells from DS rats on the high-salt diet, and this increase was inhibited by the inhibition of NF-κB activation. A TLR4 agonist, LPS, induced the elevation of blood pressure in DR rats. These results suggest that TLR4 may play a role in the pathogenesis of salt-sensitive hypertension.STARTING THIS SATURDAY, I will be at the On Any Day You Can Exhibit at the University of Maryland Gallery on the Green in College Park, Maryland. The show is open to the public from 9:00 a.m. to 5:00 p.m. daily. If you're on a college campus, or know someone who is, you will certainly be tempted to stop by the exhibit. After all, the first and second place winners of the 2010 National Portrait Gallery "On Any Day You Can Exhibit" on the National Mall will be there. For more than a decade, students from the University of Maryland, College Park have staged an exhibit on the Green to showcase the work of one of the fine arts programs in the state. For the past eight years, I have been the subject of the University's fine arts program's four-month long 82157476af

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