## **Din 50961 Fe Zn.pdf ##BEST##**

ZnT2: polymorphisms in the coding sequence of Znt2 are associated with low Zn intake in lactating women [ 157 ]. Polymorphisms in the promoter region of this gene are associated with an increase in Zn concentrations in plasma and other tissues in humans [ 105 ]. These findings clearly demonstrate the significant effects of Zn homeostasis by ZnT2s in human breast milk in response to dietary Zn intake. The involvement of Zn homeostasis in human health and disease has been demonstrated by the fact that >250 mutations in human genes encoding Zn-binding proteins are associated with diseases, such as cystic fibrosis, skin disorders, and allergies, to name just a few. Although many functional studies in animal models have been performed, the crucial functions of Zn transporters in mammalian physiology and pathophysiology have not been fully characterized. One reason is that the known murine Zn transporters cannot reflect the roles of human Zn transporters in physiological processes and disease states. DMT1: In addition to ZIP4, DMT1 and ZnT1 mediate Zn uptake from the intestinal lumen and from dietary sources in animal cells [ 129, 130, 131, 132, 133, 134 ]. DMT1, an ubiquitously expressed heavy metal transporter, plays a role in the absorption of a broad variety of divalent transition metal ions. Moreover, DMT1 also mediates the transport of certain cations and anions, including Zn(2+), Cd(2+), Fe(2+), and hexacyanoferrate (FeCN 6 -), implying that DMT1 may serve a role in intracellular trafficking and organellar import of other ions [ 135, 136, 137, 138, 139, 140, 141]. Given that DMT1 is at a crossroad of Zn uptake, it is a likely player in the uptake of Zn from milk or the intestine lumen. However, while DMT1 clearly plays an important role in uptake of Zn from the diet and from the intestine lumen, it is likely that other transporters also contribute to Zn uptake and homeostasis in the body.



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