The S100 protein family: history, function, and expression.

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Abstract: The S100 family of calcium binding proteins contains approximately 16 members each of which exhibits a unique pattern of expression. These proteins are important in calcium dependent processes such as cell proliferation, differentiation, and transformation. The S100 family members are involved in various physiological processes, including neuroblast differentiation, regeneration of damaged peripheral and central nervous system axons, and development of various tumors. They also participate in the roles of alteration of cellular activities related to nervous system development, function, and disease.