Beckwith-Wiedemann syndrome (BWS) is a childhood overgrowth condition mainly characterized with overweight at birth and increased likelihood of cancer. In cattle, there is a similar overgrowth condition called large offspring syndrome (LOS). In most BWS patients, certain genes are turned on or off incorrectly. We have found that the same occurs in LOS. Thus, we propose to use cattle as an animal model to study the mechanisms of overgrowth in BWS.