



CtBP Family Proteins

By -

Springer-Verlag New York Inc. Paperback. Book Condition: New. Paperback. 121 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. When I received an invitation from Ron Landes (Landes Bioscience) to edit a book on CtBP family proteins, I was gratified to realize that the importance of these proteins has reached the level of deserving a separate book. As the reader can see, there has been significant advancement in our understanding of the functions of these proteins in the past ten years since CtBP1 was cloned in our laboratory. Genetic and biochemical studies with *Drosophila* provided the critical evidence to show that dCtBP is a transcriptional CO repressor. Genetic studies with mutant mice have established that these proteins are essential for animal development. The CtBP family proteins are unique in several aspects. They were the first among proteins containing a metabolic enzyme fold to be implicated in transcriptional regulation. The vertebrate CtBPs exhibit distinct nuclear and cytosolic activities. The crystal structures of CtBP1 and molecular modeling studies have illuminated the molecular basis of its dual activity and the interaction with target peptides. The organization of the vertebrate CtBP2 gene has provided a novel example of genomic consolidation indicating how a single gene could...



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