What came first: ~~the~~ DNA or protein? ~~Discovery~~ The discovery of ribozymes and the hypothesis of the RNA world ~~ha~~have~~s~~ given this question another dimension. Enzymes ~~was~~ were the only known natural catalysts to the discovery of ribozymes.

Ribozymes (also known as RNA ~~enzyme~~ enzymes or catalytic RNA) are RNA particles that catalyze ~~biochemic~~ biochemical ~~reaction~~reactions. Thomas Cech and Sidney Altman were the first to discover ribozymes during the 1980s and later went on ~~later~~ to investigate their ~~the~~ catalytic properties. Thomas Cech found that splicing of introns in ~~a~~ ribosomal RNA in the ribosomal RNA gene in *Tetrahymena thermophila* ~~were found to~~ occurred in the absence of additional cell extracts. Sidney Altman and his colleagues~~,~~ ~~separated~~ discovered ~~the~~ bacterial RNase P, an enzyme responsible for changing a precursor to active tRNA. However, it was found that in addition to ~~the~~ proteins, the enzyme ~~also~~ contained RNA that could stimulate the cleavage of precursor tRNA into tRNA in the absence of the protein component. ~~Also~~In addition, Thomas Cech ~~gave~~ reached the conclusion that the intron sequence of ~~the~~ RNA ~~can~~could break and reform phosphodiester~~phosdiester~~ bonds. They won the Nobel Prize in chemistry for the same ~~thing~~ in 1989. Natural ~~ribosomes~~ ribozymes catalyze the hydrolysis of their own phosphodiester bonds. They also catalyze ~~the~~ aminotransferase activity. ~~They~~ Further, they ~~also~~ catalyze the hydrolysis of ~~the~~ other RNA. They are termed as ~~Ribozymes~~ ribozymes~~are so called~~ because they ~~act~~ are as specific as enzymes ~~in terms of their specificity~~ and belong to RNA. However, they are different from enzymes because of the following reasons:

1) Unlike enzymes, ribozymes do not require a specific pH and temperature.

Comment [A1]: A comma is not used to separate the subject and the verb and has therefore been deleted here.

Comment [A2]: In academic writing, information should be presented with accuracy. At this instance, the term "ribosomes" refers to a cell organelle, whereas "ribozymes" refers to catalytic RNA. This typographical error has been revised for accuracy.

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2) Ribozymes consists of nucleotides.
3) They do not have well–defined regions, such as active site and catalyzed catalytic sites.
4) They can act on a very small amounts of substances but perform a more limited set of instructionsactions.

MA any number of ribozymes have been discovered till date. The discovery of naturally occurring ribozymes is increasing, along with which the synthesis of several artificial ribozymes have also been synthesized. Due to Because of their abilities, ribozymes have been investigated for applications as therapeutic agents and, biosensors, as well as and in genomics functions and discovery of genes.

Comment [A3]: A plural noun must be accompanied by a plural verb. Here, as the noun is "ribozymes," a plural verb has been used.

Comment [A4]: A compound modifier contains 2 or more words, which act together as one adjective and are connected by hyphens. Hyphens are used with these terms so that their meaning is understood clearly.

SAMPLE

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