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CIO Center Small Busin	ess a	Some of the elements necessary to support life on Earth are widely known - oxygen, carbon and water, to name a few. Just as important in the existence of life as any other component is the presence of adenine, an essential organic molecule. Without it, the basic building blocks of life would not come together.									
		,	° °	to find the origin of Earth's adenine and where else it might exist in the solar syn mbia researcher Rainer Glaser may have the answer.				Print			
	i: y	s hypothesizing the exis	tence of adenine i e as it began cooli	se of a delicate combination of chemical ingredients. Using a theoretical model, Gla nce of adenine in interstellar dust clouds. Those same clouds may have showered as it began cooling billions of years ago, and could potentially hold the key for initiat er planet.				Share			
		The idea that certain m MU's College of Arts and	olecules came fror	y in	Comment						
		"You can find large molecules in meteorites, including adenine. We know that adenine can be made elsewhere in the solar system, so why should one consider it impossible to make the building blocks somewhere in interstellar dust?"									
		This theory describing the fusion of early life-forming chemicals is presented in the latest issue of the peer-reviewed journal "Astrobiology" and is co- authored by Brian Hodgen (Creighton University), Dean Farrelly (University of Manchester) and Elliot McKee (St. Louis University).									
	t		Synthesis in Interstellar Space: Mechanisms of Prebiotic Pyrimidine-Ring Formation of Monocyclic HCN-Pentamers," describes eable barrier that would prevent formation of the skeleton needed for adenine synthesis. The article is also featured in the Aug. 6 ind Engineering News."								
		Glaser believes astronomers should look for interstellar dust clouds that have highly-concentrated hydrogen cyanide (HCN), which can indicate the presence of adenine. Finding such pockets would narrow the spectrum of where life could exist within the Milky Way galaxy.									
	S	"There is a lot of sky with a few areas that have dust clouds. In those dust clouds, a few of them have HCN. A few of those have enough HCN to support the synthesis of the molecules of life. Now, we have to look for the HCN concentrations, and that's where you want to look for adenine," Glaser said.									
		"Chemistry in space and 'normal chemistry' can be very different because the concentrations and energy-exchange processes are different. These features make the study of chemistry in space very exciting and academically challenging; one really must think without prejudice."									
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