OFFICIAL ABSTRACT and CERTIFICATION

Sleep Restriction Leads to Increased Production of False Memories					Category Pick one only — mark an "X" in box at right
Sreeya Bobby					Animal Sciences
South High School, Valley Stream NY, U.S.A Objective: Previous studies have focused upon the effects of sleep deprivation on the student learning process. The novel purpose of this study was to determine the effects of sleep restriction on the production of false memories within suburban highschool students. Methods: 10 suburban high school students participated in the experiment. Subjects were					Behavioral & Social Sciences
					Biochemistry
					Biomedical & Health
	urs of sleep). The morning afte	Biomedical Engineering			
Deese-Roedigger-McDermott (DRM) false memory task, which consisted of listening to a recording, a free recall test, and a recognition test. Results: The results of the recall test were not significantly different, indicating that neither group simply wrote down random words. For the recognition test, the SR group circled a significantly higher percentage of critical lures, suggesting the formation of more false memories. However, the SR group did not have a significantly different percentage of studied words nor foil words circled, allowing for the conclusion that the increase in false memories were generated due to the sleep restriction.					Cellular & Molecular Biology
					Chemistry
					Computational Biology & Bioinformatics
					Earth & Environmental Sciences
Conclusions: There were a few limitations within this study. In addition to the small sample size, the subjects were not randomly chosen, nor was the quality of sleep monitored. However, these					Embedded Systems
can be remedied with the use of a sleep lab in a future study. Nonetheless, these results add to the growing body of research regarding the importance of sleep to the learning process of students.					Energy: Sustainable Materials and Design
					Engineering Mechanics
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					Materials Science
1. As a part of this research project, the student directly handled, manipulated, or					Mathematics
	interacted with (check ALL that apply):				Microbiology
	human participants	☐ potentially hazardo	us biological agent	:S	Physics & Astronomy
	I vertebrate animals	☐ microorganisms	□ rDNA	□ tissue	Plant Sciences
	we worked or used equipme			Yes No	Robotics & Intelligent Machines
or industrial setting:					Systems Software
3. T	his project is a continuation (of previous research.	□ Yes	■ No	Translational Medical Sciences
 My display board includes non-published photographs/visual ☐ Yes ■ No depictions of humans (other than myself): 					
5. This abstract describes only procedures performed by me/us, ■ Yes □ No reflects my/our own independent research, and represents one year's work only					
6. I/we hereby certify that the abstract and responses to the ■ Yes □ No above statements are correct and properly reflect my/our own work.					
This stamp or embossed seal attests that this project is in compliance with all federal and state laws and regulations and that all appropriate reviews and approvals have been obtained including the final clearance by the Scientific Review Committee.					