HOW DO PSYCHEDELIC DRUGS WORK ON THE BRAIN?

KEY

INTRODUCING YOURSELF	LOOKING BACK	LOOKING FORWARD	EXEMPLIFYING
talking about your career,	summing up	anticipating	illustrating
your research	recapping	creating expectations	
	reformulating		
_I'm a postdoc working for	_So again we've got some context here	_I'll try and give you the basics first	_ to help illustrate that rule
David Nutt at Imperial	which is helping to communicate really that		
		_We'll start with	_for instance
_I've been working	_So already we've got some important clues		
researching psychedelic	here about	what's striking about psilocybin	_this compares to about 50
drugs for the last five years		and its metabolite, psilocin, is	milligrams of the drug
or so	So we know that the serotonin 2A receptor		given orally
	is important, we know where it is, we know	_ And it's really quite striking that	
_I completed my PhD four	that when a psychedelic binds and stimulates		
years ago	this receptor, it excites that host cell. So	so then it's important to know	
	these are some basics. So this is all low-level	whereabouts in the brain is this	
_I've been working on	stuff.	receptor.	
really just this subject			
matter for the last five	_ so it's an incredibly rapid onset and the	_ So what else about the serotonin	
years	effects are quite profound	2A receptor?	
_So most of my work's		_ What else? Well what happens	
been with psilocybin		when?	
		_What is this really gonna tell us	
		about consciousness?	

EXPLAINING justifying highlighting logical connections	DESCRIBING MATERIALS AND METHODS	PRESENTING PREVIOUS FINDINGS	RAPPORT BUILDING connecting / identifying with the audience / using humour
_Given that it's a natural	_ has administered quite a large	_they found	_most people think about
inference to think that	dose of psilocybin	that	
_ And then essentially we	_they've administered a large dose	_ it was	_it conjures up ideas of
make a subtraction	of psilocybin to a relatively large	found that	
	sample of research participants	_ It's also	_so you might think of
	_PET imaging work in humans has	been found	
	found that	that	_ apologies for my translation
	_ we used functional magnetic	l 	
	resonance imaging to measure	imaging work	_he's an interesting chap, you know
	blood flow in the brain	in humans	
	_this study involved fifteen healthy		_Fortunately it's out of season at the
	volunteers, they had a mean age of	that	moment, it's not mushroom season so
	34, it was an eighteen-minute scan		you won't be getting your iPhones out
	and there was a placebo scan to		and snapping this picture and going
	provide us with a baseline and then		hunting at the end of the talk or
	the drug scan		tomorrow.
	_they lay in the scanner and there		
	wasn't any behavioural task that		_, which compares to about 20 to 40
	they had to carry out		liberty cap magic mushroom if you
	_they were supposed to just relax		want to put it in a recreational context
	_we gave 2 milligrams of psilocybin		