

EEG Neuromodulation Modalities & History

		ILF Synchrony				
2020						
2010	<ul style="list-style-type: none"> Alpha-Theta - Gruzelier 	<ul style="list-style-type: none"> Z-Score – 19 ch 	<ul style="list-style-type: none"> Alpha-Theta, Beta &-Score – 4 ch SMR – Bill Scott (BrainPaint) 	<ul style="list-style-type: none"> Default Network based on corticolimbic Unity Kaiser (SKIL) 	<ul style="list-style-type: none"> Pattern-based targeting Van Deusen (BrainTrainer) 	<ul style="list-style-type: none"> Fisher
2000	<ul style="list-style-type: none"> Inhibit only 'Non-Linear Dynamical' – Browne (NeuroOptimal) 	<ul style="list-style-type: none"> Synchrony – Les Fehmi 	<ul style="list-style-type: none"> Normative EEG Database - Thatcher 	<ul style="list-style-type: none"> <i>Fine-tune inhibits based on EEG</i> 	<ul style="list-style-type: none"> Bipolar T3-T4 for instabilities Bipolar, arousal curve C3 6 C4 SMR + inter-hem SMR / 15Hz / 6 SMR / 8 	<ul style="list-style-type: none"> Recasting of inhibits & wider bands
1990	<ul style="list-style-type: none"> Alpha-Theta - Penniston 	<ul style="list-style-type: none"> Alpha-Hardt (BioCybernaut) 	<ul style="list-style-type: none"> Beta/SMR ↑ - Othmers 			
1980		<ul style="list-style-type: none"> Alpha ↓ Kamiya/Hardt 			<ul style="list-style-type: none"> Ayers 	
1970		<ul style="list-style-type: none"> SMR - Sterman 				
1960	<p>'One Size Fits All' (protocol not affected by client-specific clinical input)</p>		<p>EEG-Derived Protocols</p> <p>All Fit One Size</p>		<p>Symptom-Derived Protocols</p> <p>Individualised</p>	
Non-Directive	State Effects	<p>Trait Effects - Operant Conditioning</p> <p>Directive</p>				Non-Directive