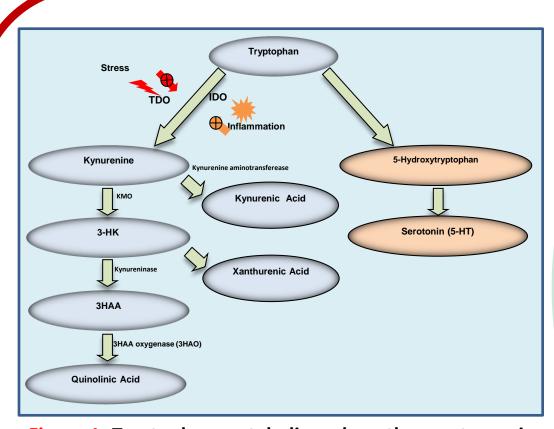


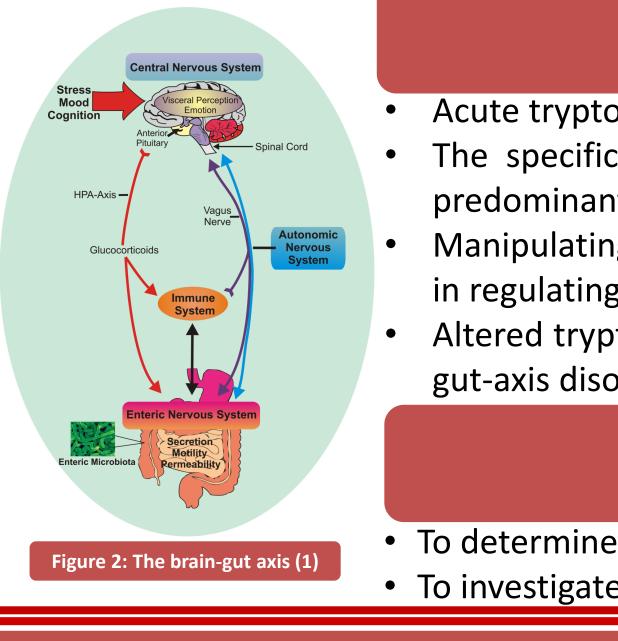
University College Cork, Ireland Coláiste na hOllscoile Corcaigh

Component of Cognitive Impairment in Brain-gut Axis Disorders

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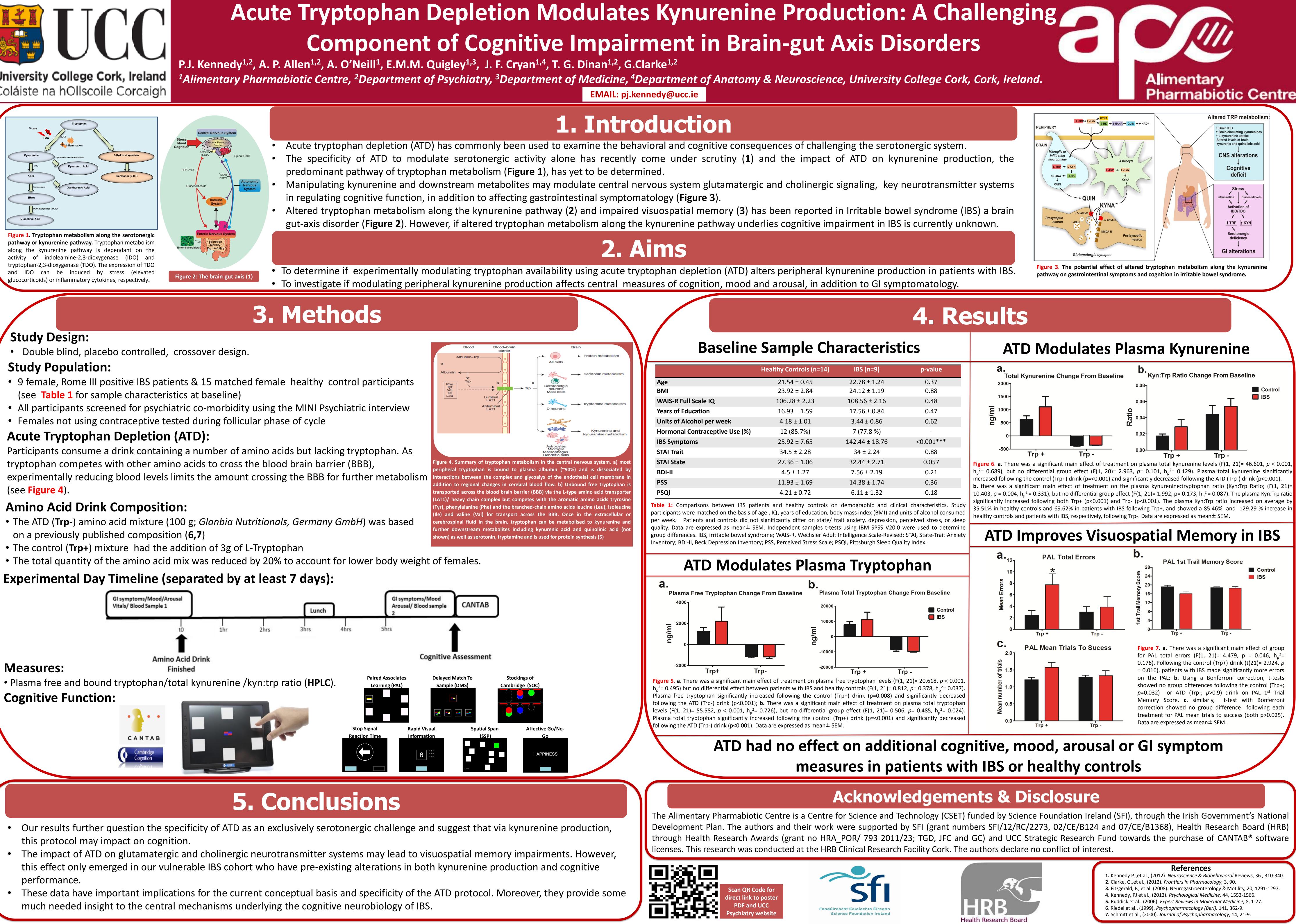
nurenine pathway. Tryptophan metabol Ioleamine-2,3-dioxygenase (IDO) and tryptophan-2,3-dioxygenase (TDO). The expression of TDO and IDO can be induced by stress (elevated lucocorticoids) or inflammatory cytokines, respectively



Double blind, placebo controlled, crossover design.

- (see **Table 1** for sample characteristics at baseline)

- on a previously published composition (6,7)





	Healthy Controls (n=14)	IBS (n=9)	p-value	a. Total Kyr
	21.54 ± 0.45	22.78 ± 1.24	0.37	יסטער דיסטער דיסטער דיסטער דיסטער
	23.92 ± 2.84	24.12 ± 1.19	0.88	4500
ull Scale IQ	106.28 ± 2.23	108.56 ± 2.16	0.48	1500-
ducation	16.93 ± 1.59	17.56 ± 0.84	0.47	E 1000-
Alcohol per week	4.18 ± 1.01	3.44 ± 0.86	0.62	U 1000- 00-
I Contraceptive Use (%)	12 (85.7%)	7 (77.8 %)	-	0
toms	25.92 ± 7.65	142.44 ± 18.76	<0.001***	Ŭ
	34.5 ± 2.28	34 ± 2.24	0.88	-500-1
e	27.36 ± 1.06	32.44 ± 2.71	0.057	Figure 6. a. There was
	4.5 ± 1.27	7.56 ± 2.19	0.21	h_p^2 = 0.689), but no d
	11.93 ± 1.69	14.38 ± 1.74	0.36	increased following the b. there was a signifi
	4.21 ± 0.72	6.11 ± 1.32	0.18	10.403, p = 0.004, h_p^2 :

2. Clarke, G., et al., (2012). Frontiers in Pharmacology, 3, 90.
3. Fitzgerald, P., et al. (2008). Neurogastroenterology & Motility, 20, 1291-1297.
A Kannady DL at al (2012) Drychological Madicina AA 1552 1566