	Experiment 1						Experiment 2					Experiment 3				
	_	indiv. 1	indiv. 2	indiv. 3	indiv. 4	indiv. 5	indiv. 6	indiv. 7	indiv. 8	indiv. 9	indiv. 10	indiv. 11	indiv.	12 indiv. 1.	3 indiv. 1	4 indiv. 15
	bout 1		1345	231		321	54123 †		35412	152	53142	514	32	124	54132	21345
Phase 1	bout 2	2541		12345 * †		342	54213	45132	15432	12345 *	15342	123	1532	42315	45123	12354
	bout 3 bout 4	45213 † 12453 †	125 153	35412 † 35412 †		42153 † 45123 * †	54312 12534	4351 54321 *	34521 32154	14523 32451	51234 5214	32154 54123	53 1345	45132 5413	54321 * 43512	51234 12345 *
	bout 5	5412		21345 †		45123 * †	54123	415	54312	51243	54213	43125	1323	54	12453	12345 *
	bout 6	21543 * †	32154 * †			54123 †	54312	51432	34152	54132	1523	51423	432	152	45123	12345 *
	bout 7		12354 †		51423 †		54132	32415	54321 *	54123	21543	514	3125	23145	21543	51234
	bout 8 bout 9	54213 † 51243 †		23154 † 23154 †		32154 * † 4512	125 54321 *	51342 23154	41352 23415	54321 * 51423	14532 1513	15432 54321 *	3125 53421	24153 54123	43521 514	12345 * 12345 *
	bout 10			15423 †		12435 †	54312	51234	21543	51432	15432	34521	1513	54	54123	12345 *
	bout 11	12	23154 †	21534 †	3425	25413 †	54321 *	25413	34251	54123	15432	1345	3121	123	123	54123
	bout 12			21543 * †			125	15324	15432	54123	2314	34512	54321 *	25314	45312	23451
	bout 13 bout 14	43215 * † 43215 * †	54312 †			51234 * † 25413 †	12543 512	51234 32145	12543 25143	15423 32154	23415 213	54312 54321 *	54321 * 54321 *	32145 34125	45231 43215	51234 12345 *
	bout 15	21345 †		2541		45123 * †	12345 *	45312	54321 *	21453	2341	132	54321 *	15234	21345	154
	bout 16	15423 †	51432 †	5412		12345 * †*	54312	15234	34215	43215	21345	54312	5315	23154	45123	5421
	bout 17	_	21543 * †			23451 * †	43512	51342	51243	21543	12345 *		51234	34251	12345 *	12345 *
	bout 18	54321 * †				45123 * †	54312	121	54321 *	54123	15	12345 *	12354	15342	45123	25134
	bout 19 bout 20	21345 †	54321 * † 51423   †			51234 * † 51234 * †	15432 12543	51324 15324	32154 12543	21543 54123	54321 * 12345 *	123 54321 *	15432 15432	54321 * 15342	45231 21543	45123 142
	bout 21	54321 * †	_	21543 * †			12354	43152	51342	51243	12345 *		51432	53214	54312	5124
	bout 22	32154 * †		21543 * †	23154 †	451	54321 *	51324	54321 *	51423	13452	15342	15243	54321 *	45123	34
	bout 23	12543 †		23154 †		54312 †	54321 *	52341	54321 *	12543	23451		51432	31245	45123	34512
	bout 24	21543 * †		21354 †			12345 *	51234 23145	12345 *	12354	12354	12543	54321 *	54321 *	52314	125
	bout 25 bout 26	12345 " † 32154 * †			51423 †	45123 * † 23541 †	12345 * 12345 *	54321 *	51432 54123	54132 52143	21534 51432	3125 54321 *	51243 12345	54321 * 23415	31254 21354	12345 * 23451
	bout 27	43215 * †				51234 * †	54321 *		12354	24315	54123	54321 *	54321 *	32154	12354	12345 *
	bout 28		21543 * †		54132 †		12345 *	51234	54321 *	15234	52341	54321 *	54321 *	15432	54123	12345 *
	bout 29			23154 †			54321 *	53214	54321 *	15423	12345 *	54321 *	54321 *	34521	21354	12345 *
	bout 30			21543 * †			54321 *	54321 *	54132	51234	34521	51432	51432	54321 *	12354	12345 *
	bout 31 bout 32			23154 † 21543 * †			54312 54321 *	54321 * 54321 *	54132 54321 *	54321 * 15234	45123 41235	15432 54321 *	51432 54321 *	53214 13254	32154 15324	23451 12345 *
	bout 32			54321 * †			54321 *	54321 *	12453	51432	12534	54321 *	51243	15432	54321 *	12345 *
	bout 34			21543 * †			54321 *	54321 *	54321 *	12345 *	54321 *	51324	54321 *	54321 *	54321 *	23451
	bout 35	12345 * †		23154 †			54321 *	54321 *	15432	54321 *	54123	54321 *	51432	54321 *	54321 *	45123
	bout 36	43521 †		21543 * †			54321 *	54312	13254	32145	43215	54321 *	54321 *	32154	12345 *	23451
	bout 37 bout 38	51243 † 15432 ÷		21543 * † 32154 * †			54312 54312	54321 * 34215	54321 * 43215	54321 * 23154	12345 * 12345 *	54321 * 54321 *	54321 * 54321 *	54321 * 23451	21543 32415	51234 23451
	bout 39			12354 †			54321 *	54123	12543	54321 *	52341	54321 *	54321 *	54321 *	54321 *	51234
	_bout 40	32145 †	43215 * †			45123 * †	54321 *	34512	52314	54321 *	43215	54321 *	15432	15432	21543	51432
	bout 41	342	21543 *	21543 *		12345 *	12	54321 *	51234	1234	23451	54321 *	54321 *	53214	32154	12345 *
	bout 42	321	32154 *	54123	34512 *	32541 † 34512 * †	1235	54321 * 54321 *		51432	43215	54321 *	54312	32154		† 45321
	bout 43 bout 44	23451 * 43215 *	45321 43215 *	15432 23145	45123 *	423	54321 * 152	54321 **	51234 15432 †	42135 52134	41235 12345 *	54321 * 54321 *	54321 * 54321 *	54321 * 54321 *	34521 34521	12345 * 45321
	bout 45	51234	54321 * †		23451 * †		54321 *	31524	54321 *	31524	43215	14325	54321 *	54321 *	43521	43125
	bout 46	21534	45132	21543 *	45123 *	32451 †	54312	54321 *	43215	54321 *	54321 * †	54321 *	54321 *	54321 *	34215	12345 *
	bout 47	54321 *	43215 *	42513 †		12345 *	51432	54321 *	512	54321 *	12534	15432	54321 *	54321 *	_	† <mark>54321 *</mark>
	bout 48	12543	15432	45123 * †		54123	23451	54321 *	54321 *	812	21354	54321 *	54321 *	54321 *	54321 * 12345 *	12345 *
	bout 49 bout 50	32451 † 21345	23154	54132 15432	43215 * 32145	54231 54123	54123 45	21345 32514	541 54321 *	43521 54321 *	43215 12543	54321 * 4512	54321 * 54321 *	51432 32451	51432	23451 12345 *
	bout 51	52134	43215 *	21543 *	23541 †		51234	152	54321 *	21345	13452		54321 *			† 54123 †
	bout 52	54321 *	54312 †	14325	43521	13	12345 * †		54312	51234	21345	54321 *	54321 *	13245	54312	51234 †
	bout 53	51234	45213	54123		34512 * †	542	43512		51234	51234 †	54321 *	54321 *		12345 *	
	bout 54 bout 55	21345 12345 *	52143 † 54321 * †		54213 43251	21345 54123	54321 * 54321 *	54321 * 54321 *		15432 † 32154	32145 54123 †	13425 15432	54321 * 54321 *	13452 152	32154	45123 † 54321 * †
	bout 56	53214	34125		45123 *		54321 ** 54312		54321 *	54123	54123 † 51234 †	54312	54321 * 54321 *		12354	45123
	bout 57	51243	51243 †		23451 * †	43	23451	15432 †		12345 * †			54321 *		54321 *	45123
Phase 2	bout 58	51234	351	21534		32514 †	21543	123		54321	51234 †	12543	51432	13452	12354	43512
	bout 59	41532	12543	1345	12534	12345 *	54321 *	15432 †	_		12345 *	51432	54321 *	54321 *	_	† 12345 *
	bout 60 bout 61	52341 53214	32154 * 21354	43215 * † 21543 *	123 23451 * †	32541 † 45132	12345 * † 23451	12354 †	54312 12543 ÷	54321 * 123	51234 † 51234 †	54321 * 52341	54321 * 54321 *		21543 54321 *	
	bout 62		32154 *	12543		32514 †	54123	43521	15432 †	43215	51234 †		54321 *		12345 *	
	bout 63	21345	54321 * †		23154 †		54312	125		15423 †	23154		54321 *		23415	
	bout 64	54321 *	15432	54321 *	12345 *		54321 *		15	54321 *	51432 †		51432	15432	34512	54321 *
	bout 65	23154	21543 *		23145 †		21543	43215	21543	54321 *	51234 †		54321 *		54321 *	
	bout 66 bout 67	53241 32145 †	54321 * †	51243 1243	23451 * † 51234 *	12345 * 34512 * †	12345 * † 54321 *		51243 12543 †	43215 543	51234 † 12345 *	12345 * 54123	21543 54321 *	† 15432 12	12345 * 12345 *	12345 * 45123
	bout 68	32154 * †			23451 * †		15432 †		54321 *	54321 *	51234 †	15432	54321 *		45132	12345 *
	bout 69	32154 * †		15432	23451 * †	34512 * †	21345	43512	54321 *	54312	23451	54321 *	54321 *	54321 *	51234	234
	bout 70		52143 †			31254 †	51	34512		51234	51234 †	12345 *		54321 *	21543	† 12345 *
	bout 71			45321 †				21534	541	15432 †	12345 *		54321 *	_	54123	54321 *
	bout 72 bout 73	12345 * 34512 * †		21543 * 15432	45123 * 23451 * †	12345 * 34512 * †	54123 12	54312 12345 †	51243 15432 +	54312 15432 †	12345 * 12345 *	54321 * 12345 *		54321 * 54321 *	45123 51234	12345 * 12345 *
	bout 74		32154 *	32154 *	54123	23451 *	15432 †			15432 †	12345 *		21543	† 15432	51243	12345 *
	bout 75			54321 *	34512 *	51234 *	15432 †		12	15432 †	21345	54321 *	54321 *	21543	21543	
	bout 76	32145 †	435	43215 * †	23451 * †	34512 * †		35142	15234 †		12345 *	12345 *		12345 *	45123	45123
	bout 77	32154 * †			45123 *		12543 †		51234		13245		51432	15432	51234	12345 *
	bout 78 bout 79	12354 54231	54321 * † 21354		23451 * † 23451 * †	34512 * † 23451 *	15234 † 15432 †	12534 †	15432 †	43215 43125	51234 † 51432 †		51432 54321 *	543 45312	15432 54321 *	12345 * 12345 *
	_bout 80		54321 * †				54321 *			12543 †		54321 *		43312	32154	15234
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Trade-off between distance and prioritization of high-reward sites in traplining bumblebees by Lihoreau, Chittka & Raine

**Fig. S3.** Flower visitation sequences (excluding revisits to the same flower). For each bee (columns 1-15), visitation sequences are sorted in chronological order (bouts 1-40: phase 1; bouts 41-80: phase 2). Numbers 1-5 in each row refer to the spatial location of each flower in the array (see Fig. 1): hence a bee moving clockwise round the pentagonal array in order starting with a visit to flower 1 would be recorded as '12345'. Colour codes (44 combinations of font and cell colours) indicate the sequences observed significantly more often than expected by chance during phases 1 and 2 (multinomial test with a random probability 0.0083: p < 0.05). \*: sequences minimizing travel distance (phases 1 and 2); †: sequences maximizing initial rate of food intake (phase 2). Incomplete sequences, in which at least one of the five flowers was not visited, are indicated using a red font and white cell background (these sequences were not included in analyses).