

	6OMTs								4'OMTs								7OMTs								Scoulerine OMTs							
	Tf6OMT	Cj6OMT	Cc6OMT2	Ps6OMT	Gf6OMT2	Ps6OMT3	Ps6OMT3b	Ps6OMT7	Cc6OMT	Tf4'OMT	Gf4'OMT	Ps4'OMT1	Ps4'OMT2	Cc6OMT	Cc6OMT1	Gf6OMT4	Ps6OMT2	Ps6OMT2b	Ec6'OMT	Cc6'OMT	Gf6OMT3	Ps7'OMT	Ec7'OMT	Ec6'OMT	Gf6OMT5	Ec6'OMT	Gf6OMT7	Ps6OMT3	Gf6OMT6	Tf6OMT	Cc6OMT	Cc6OMT
Tf6OMT	100	85	85	66	68	62	62	57	52	51	52	48	49	37	43	44	39	39	37	41	41	40	39	40	35	36	35	31	33	31	31	31
Cj6OMT		100	98	69	72	63	63	59	52	51	52	49	50	39	45	44	42	42	38	43	42	41	38	40	35	36	35	33	33	32	31	32
Cc6OMT2			100	69	71	63	63	59	52	51	53	50	51	39	45	44	41	41	37	43	41	40	38	40	36	36	36	32	34	33	32	32
Ps6OMT				100	82	81	81	71	56	56	53	51	52	40	44	45	42	42	38	43	41	40	38	41	33	34	36	32	31	31	31	31
Gf6OMT2					100	73	73	69	56	55	55	52	53	39	44	46	42	42	41	43	40	41	40	42	33	35	35	33	32	33	33	33
Ps6OMT3						100	99	65	52	52	49	47	48	35	38	40	37	37	38	39	38	38	36	38	31	33	33	29	28	27	27	27
Ps6OMT3b							100	65	52	52	49	47	47	35	38	40	38	38	38	38	38	37	36	38	31	32	33	29	28	27	27	27
Ps6OMT7								100	49	50	45	42	45	37	41	39	35	35	36	40	37	38	36	39	31	32	33	29	31	32	32	32
Cj4'OMT									100	89	72	63	68	36	41	40	36	36	37	40	37	37	38	37	35	36	35	32	31	33	32	33
Tf4'OMT										100	71	64	67	37	42	42	38	38	38	42	39	39	39	39	35	37	34	31	31	35	34	35
Gf6OMT1											100	73	78	34	43	43	41	41	34	40	37	37	36	36	36	35	34	29	28	30	29	29
Ps4'OMT1												100	81	36	43	42	39	39	35	37	36	37	37	38	33	32	31	29	29	30	30	30
Ps4'OMT2													100	36	44	42	40	40	35	40	37	38	36	37	35	34	32	30	29	31	30	32
CjCoOMT														100	38	38	37	37	37	35	32	36	33	34	25	26	28	26	28	25	26	26
Cc6OMT1															100	61	53	53	36	39	37	39	39	38	32	31	33	31	31	30	30	31
Gf6OMT4																100	59	59	35	40	39	40	38	40	32	32	31	32	29	29	29	30
Ps6OMT2																	100	99.7	31	37	37	36	35	37	29	30	29	29	28	27	26	27
Ps6OMT2b																		100	31	37	37	36	35	37	29	30	29	29	28	27	26	27
EcG11OMT																			100	38	36	39	38	41	32	30	30	28	29	29	28	28
Ct67OMT																				100	58	54	54	64	38	37	41	38	38	36	36	36
Gf6OMT3																					100	64	54	59	36	36	36	33	34	35	34	35
Ps7OMT																						100	53	57	37	37	39	33	33	32	33	33
Ec7OMT																							100	63	37	36	36	33	33	33	32	33
Ec6'OMT																								100	40	38	39	38	37	36	36	37
Gf6OMT5																									100	82	77	40	43	43	43	45
Ec62OMT																										100	75	40	42	44	43	45
Gf6OMT7																											100	42	44	46	45	47
Ps6OMT1																												100	63	61	60	64
Gf6OMT6																													100	67	68	68
Tf6OMT																														100	89	88
Cj6OMT																															100	98
Ct6OMT																																100

Supplementary Figure 1. Percent identity matrix for amino acid sequences of BIA *O*-methyltransferases characterized at the molecular level. Protein sequences were obtained by translation of nucleotide sequences deposited in Genbank (accession numbers provided in Supplementary Table 1) and aligned using Clustal Omega under default parameters (Chojnacki et al., 2017). Percentage identities are shaded with from green (maximum, 100%) to minimum (red, 25%).

Chojnacki, S., Cowley, A., Lee, J., Foix, A., and Lopez, R. (2017). Programmatic access to bioinformatics tools from EMBL-EBI update: 2017. *Nucleic Acids Res.* 45, W550–W553. doi:10.1093/nar/gkx273.