

Supplemental materials for the article “Measuring the Dark Core of Personality”.

Table S1. *Sample Characteristics*

Sample	Gender			Age	
	Female	Male	Other	M (SD)	Range
A1	2,547	4,602	77	34.75 (13.1)	18 – 80
A2	29,607	44,274	596	35.18 (12.1)	18 – 80
A3	34,697	41,957	564	35.13 (12.5)	18 – 80
B1	2,498	2,643	50	29.28 (10.7)	18 – 80
B2	51	78	1	34.71 (10.1)	19 – 68
B3	266	271	0	29.92 (9.9)	18 – 75
B4	490	484	4	31.08 (9.7)	18 – 78

Table S1. *Origin of Participants for Samples A1-B1 (in %), Top-29 Countries Shown.*

Country	Sample			
	A1	A2	A3	B1
	(N = 7,226)	(N = 74,477)	(N = 77,218)	(N = 5,190)
AT	0.2	0.2	0.7	0.3
AU	2.3	4.0	1.4	2.4
BE	0.2	21.7	0.6	0.8
BR	0.9	2.0	0.5	4.8
CA	5.4	3.4	2.0	3.0
CH	0.2	0.3	0.8	1.6
DE	1.4	1.6	19.6	3.3
DK	31.6	0.5	13.3	4.7
ES	0.3	1.5	0.3	0.6
FI	0.5	0.4	3.2	2.7
FR	0.5	3.7	1.5	1.4
GB	3.5	4.6	3.0	4.9
IN	0.5	1.7	1.1	0.8
IT	0.3	0.5	0.5	5.9
JP	0.1	0.1	0.3	0.2
LV	0	0.1	2.3	0.7
MX	0.5	0.6	0.5	0.7
MY	0.2	0.3	0.6	0.3
NL	0.8	1.4	0.6	0.8
NO	0.6	0.4	7.0	19.1
PH	0.5	0.6	0.7	1.0
PL	0.2	1.9	2.3	6.0
PT	0.1	2.0	1.4	0
RO	0.1	1.3	0.5	0.9
SE	1.6	0.8	0.7	0.9
SG	0.5	0.9	1.2	0.8
TH	0.1	0.1	4.9	0.4
US	39.2	32.3	20.7	20.3
ZA	0.8	0.6	0.4	1.2
All other	< 2.3	< 2.0	< 0.1	< 0.7

Table S2. *Number of Items by Dark Trait and Itemselection Stage*

Dark Trait	Itempool	Initial Item evaluation	First Item selection	Final Itemsets		
				D70	D35	D16
Amoralism-Crudelia	13 (7)	12 (6)	10 (4)	7 (3)	4 (1)	3 (1)
Amoralism-Frustralia	14 (7)	12 (6)	9 (4)	6 (2)	3 (0)	1 (0)
Egoism	20 (10)	15 (8)	10 (5)	5 (2)	3 (1)	1 (1)
Greed	11 (6)	10 (5)	5 (2)	4 (1)	1 (1)	0
Machiavellianism	20 (10)	17 (8)	13 (7)	7 (4)	4 (2)	2 (1)
Moral Disengagement	16 (8)	13 (7)	10 (5)	5 (2)	1 (0)	1 (0)
Narcissism	18 (8)	14 (7)	10 (5)	6 (4)	3 (3)	0
Psychological Entitlement	12 (6)	12 (6)	9 (6)	5 (4)	2 (1)	0
Psychopathy	20 (10)	18 (8)	12 (4)	7 (3)	5 (2)	3 (1)
Sadism	20 (11)	20 (11)	15 (9)	8 (6)	5 (5)	3 (3)
Self-Centeredness	4 (2)	4 (2)	4 (2)	4 (2)	2 (1)	1 (1)
Spitefulness	16 (7)	15 (7)	11 (5)	6 (2)	2 (0)	1 (0)

Note. Number of negatively keyed items in parenthesis.

Table S3. *EFA Loadings*

Item	After initial Itemevaluation (<i>N</i> = 74,477)	After First Itemselection (<i>N</i> = 77,218)
CRUD01	0.508	0.498
CRUD02	0.65	0.662
CRUD03	0.531	0.552
CRUD04	0.578	
CRUD05	0.441	0.427
CRUD06	0.588	0.601
CRUD07	0.421	
CRUD08	0.632	0.631
CRUD09	0.39	0.37
CRUD10	0.569	0.583
CRUD11	0.439	0.445
CRUD12	0.638	0.636
EGO01	0.502	0.477
EGO02	0.397	
EGO03	0.607	0.611
EGO04	0.503	0.466
EGO05	0.361	
EGO07	0.627	0.602
EGO08	0.448	0.419
EGO09	0.323	
EGO10	0.297	
EGO11	0.325	
EGO12	0.518	0.529
EGO13	0.61	0.606
EGO14	0.496	0.511
EGO16	0.417	0.402
EGO17	0.606	0.597
FRUST01	0.467	
FRUST02	0.307	
FRUST03	0.606	0.624
FRUST04	0.382	0.374
FRUST05	0.728	0.711
FRUST06	0.533	0.486
FRUST07	0.523	
FRUST08	0.552	0.539
FRUST09	0.603	0.611
FRUST10	0.613	0.556
FRUST11	0.547	0.514
FRUST12	0.604	0.6
GRE01	0.54	0.543
GRE02	0.409	0.413
GRE03	0.403	
GRE04	0.372	0.347

GRE05	0.397	
GRE06	0.327	
GRE07	0.467	
GRE08	0.48	0.495
GRE09	0.333	
GRE10	0.481	0.515
MACH01	0.354	
MACH02	0.651	0.65
MACH03	0.556	0.588
MACH04	0.668	0.667
MACH05	0.616	0.595
MACH06	0.467	
MACH07	0.594	0.604
MACH08	0.549	0.54
MACH09	0.523	0.517
MACH10	0.579	
MACH11	0.531	
MACH12	0.466	0.472
MACH13	0.517	0.508
MACH14	0.467	0.484
MACH15	0.452	0.433
MACH16	0.671	0.666
MACH17	0.555	0.541
MDIS01	0.472	0.478
MDIS02	0.396	0.368
MDIS03	0.531	0.525
MDIS04	0.474	0.446
MDIS05	0.24	
MDIS06	0.467	0.494
MDIS07	0.494	0.466
MDIS08	0.339	
MDIS09	0.425	
MDIS10	0.424	0.417
MDIS11	0.439	0.401
MDIS12	0.611	0.599
MDIS13	0.501	0.477
NARC01	0.472	0.461
NARC02	0.571	0.562
NARC03	0.626	0.601
NARC05	0.426	0.429
NARC06	0.56	0.55
NARC07	0.505	0.525
NARC08	0.609	0.616
NARC09	0.318	
NARC10	0.276	
NARC12	0.302	
NARC13	0.377	

NARC14	0.598	0.599
NARC15	0.433	0.405
NARC16	0.51	0.495
PATHY01	0.676	0.682
PATHY02	0.681	0.682
PATHY03	0.624	0.613
PATHY04	0.601	0.579
PATHY05	0.283	
PATHY06	0.326	
PATHY07	0.559	
PATHY08	0.535	0.556
PATHY09	0.476	0.488
PATHY10	0.579	0.555
PATHY11	0.656	0.664
PATHY12	0.323	
PATHY13	0.41	0.442
PATHY14	0.57	0.567
PATHY15	0.187	
PATHY16	0.416	
PATHY17	0.336	0.361
PATHY18	0.505	0.534
PENT01	0.52	0.544
PENT02	0.415	
PENT03	0.533	0.534
PENT04	0.434	
PENT05	0.496	0.503
PENT06	0.541	0.563
PENT07	0.42	0.44
PENT08	0.481	0.486
PENT09	0.562	0.581
PENT10	0.332	
PENT11	0.436	0.407
PENT12	0.491	0.455
SAD01	0.636	0.597
SAD02	0.604	0.589
SAD03	0.621	0.596
SAD04	0.519	
SAD05	0.578	
SAD06	0.418	
SAD07	0.575	0.586
SAD08	0.607	0.595
SAD09	0.614	0.604
SAD10	0.497	0.502
SAD11	0.604	0.602
SAD12	0.571	0.55
SAD13	0.651	0.609
SAD14	0.678	0.655

SAD15	0.565	
SAD16	0.59	0.57
SAD17	0.563	
SAD18	0.608	0.611
SAD19	0.656	0.651
SAD20	0.518	0.508
SCTR01	0.632	0.637
SCTR02	0.529	0.53
SCTR03	0.604	0.584
SCTR04	0.543	0.522
SPITE01	0.444	
SPITE02	0.405	0.39
SPITE03	0.388	0.362
SPITE04	0.467	0.467
SPITE05	0.627	0.61
SPITE06	0.599	0.593
SPITE07	0.496	0.49
SPITE08	0.495	0.478
SPITE09	0.553	0.54
SPITE10	0.477	0.485
SPITE11	0.294	
SPITE12	0.467	
SPITE14	0.55	0.549
SPITE15	0.377	
SPITE16	0.469	0.453

Note. There were 162 items in the pool after the initial itemevaluation. 118 items were retained after the first itemselection.

Table S4. *Loadings on D as obtained in Bifactor and CFA Modeling*

		After Final Itemselection (<i>N</i> = 6,838)		
Label	After First Itemselection (<i>N</i> = 77,218)	D70	D35	D16
CRUD01	0.470	0.533		
CRUD02	0.653	0.659	0.663	0.639
CRUD03	0.550			
CRUD05	0.402			
CRUD06	0.568	0.599	0.626	0.648
CRUD08	0.631	0.636	0.632	0.599
CRUD09	0.344			
CRUD10	0.570	0.581	0.598	
CRUD11	0.416	0.471		
CRUD12	0.621	0.629		
EGO01	0.482	0.473		
EGO03	0.628	0.603	0.595	
EGO04	0.435	0.469		
EGO07	0.573	0.659	0.648	0.623
EGO08	0.398			
EGO12	0.537			
EGO13	0.597			
EGO14	0.476			
EGO16	0.379			
EGO17	0.599	0.580	0.578	
FRUST03	0.626	0.596		
FRUST04	0.369			
FRUST05	0.726	0.704	0.692	
FRUST06	0.477			
FRUST08	0.537			
FRUST09	0.584	0.628	0.636	0.651
FRUST10	0.530	0.593		
FRUST11	0.498	0.538		
FRUST12	0.590	0.592		
GRE01	0.556	0.503		
GRE02	0.400	0.393	0.392	
GRE04	0.336			
GRE08	0.488	0.462		
GRE10	0.510	0.462		
MACH02	0.649			
MACH03	0.590			
MACH04	0.673	0.675	0.656	0.636
MACH05	0.586			
MACH07	0.606	0.589		
MACH08	0.522	0.596	0.606	0.607
MACH09	0.506			
MACH12	0.462	0.475	0.474	

MACH13	0.482			
MACH14	0.470			
MACH15	0.414	0.434		
MACH16	0.669	0.670	0.652	
MACH17	0.524	0.553		
MDIS01	0.452	0.476		
MDIS02	0.338	0.487		
MDIS03	0.533			
MDIS04	0.427			
MDIS06	0.513	0.492	0.496	0.471
MDIS07	0.446			
MDIS10	0.396			
MDIS11	0.380			
MDIS12	0.590	0.614		
MDIS13	0.453	0.477		
NARC01	0.439	0.478	0.467	
NARC02	0.543	0.590	0.570	
NARC03	0.592			
NARC05	0.415	0.438		
NARC06	0.545			
NARC07	0.510	0.514	0.516	
NARC08	0.609	0.614		
NARC14	0.614			
NARC15	0.384			
NARC16	0.474	0.513		
PATHY01	0.694	0.686	0.688	
PATHY02	0.675			
PATHY03	0.593	0.644		
PATHY04	0.558	0.609	0.617	0.622
PATHY08	0.551	0.568	0.565	0.559
PATHY09	0.472			
PATHY10	0.561	0.571	0.568	0.564
PATHY11	0.675	0.678	0.665	
PATHY13	0.438			
PATHY14	0.547			
PATHY17	0.354			
PATHY18	0.517	0.553	0.567	
PENT01	0.522			
PENT03	0.513	0.517		
PENT05	0.484			
PENT06	0.538	0.542	0.527	
PENT07	0.428			
PENT08	0.471	0.494		
PENT09	0.582			
PENT11	0.390	0.446		
PENT12	0.457	0.511	0.504	
SAD01	0.561			

SAD02	0.543	0.576	0.587	0.609
SAD03	0.569	0.600		
SAD07	0.543	0.568		
SAD08	0.567			
SAD09	0.575			
SAD10	0.473			
SAD11	0.562	0.589	0.608	
SAD12	0.512	0.576	0.598	0.619
SAD13	0.575			
SAD14	0.612	0.690	0.721	0.753
SAD16	0.519	0.632	0.665	
SAD18	0.565			
SAD19	0.614	0.666		
SAD20	0.465			
SCTR01	0.631	0.633		
SCTR02	0.512	0.554	0.572	
SCTR03	0.549	0.654	0.678	0.701
SCTR04	0.501	0.548		
SPITE02	0.375			
SPITE03	0.344			
SPITE04	0.454	0.465		
SPITE05	0.591	0.635	0.630	
SPITE06	0.587	0.599		
SPITE07	0.481			
SPITE08	0.464	0.516		
SPITE09	0.537	0.538	0.537	0.538
SPITE10	0.476			
SPITE14	0.528			
SPITE16	0.442	0.489		

Note. After the first itemselection, there were 118 items. Results after the final itemselection refer to the items retained in the D70, the D35, and the D16, respectively.

Table S5. *Bifactor Results* ($N = 6,838$)

Label	D	Crudelia	Frustralia	Greed	Narcissism	Sadism	Self-Centredness
D1	0.599	0.19					
D2	0.659						
D3	0.596		0.215				
D4	0.475						
D5	0.478				0.494		
D6	0.568						
D7	0.517						
D8	0.6					0.328	
D9	0.476						
D10	0.465						
D11	0.636	0.13					
D12	0.538		-0.043				
D13	0.503			0.692			
D14	0.67						
D15	0.514				0.002		
D16	0.678						
D17	0.69					0.316	
D18	0.635						
D19	0.581	0.373					
D20	0.603						
D21	0.704		0.041				
D22	0.462			0.342			
D23	0.553						
D24	0.571						
D25	0.494						
D26	0.568					0.375	
D27	0.487						
D28	0.554						0.196
D29	0.599						
D30	0.659	0.166					
D31	0.434						
D32	0.614				0.037		
D33	0.644						
D34	0.576					0.332	
D35	0.471	0.406					

D36	0.58						
D37	0.593		0.185				
D38	0.596						
D39	0.438				0.543		
D40	0.609						
D41	0.542						
D42	0.666					0.27	
D43	0.477						
D44	0.633						0.212
D45	0.516						
D46	0.533	0.475					
D47	0.469						
D48	0.628		0.109				
D49	0.462			0.649			
D50	0.675						
D51	0.59				0.005		
D52	0.553						
D53	0.511						
D54	0.576					0.324	
D55	0.492						
D56	0.548						0.314
D57	0.538						
D58	0.629	0.262					
D59	0.473						
D60	0.592		0.603				
D61	0.393			0.225			
D62	0.589						
D63	0.513				0.175		
D64	0.686						
D65	0.446						
D66	0.632					0.274	
D67	0.614						
D68	0.654						0.282
D69	0.489						
D70	0.589					0.313	
