Party Organization and Gender in European Elections: Supplementary Materials

S1 Supplementary Tables

Table S1: Sample Selection:Parties

Country	Party	Selection
Austria	FPÖ	1
	ÖVP	1
	SPÖ	1
Belgium	CD&V	0
	CDH	1
	CSP	0
	Ecolo	0
	Groen	0
	MR	1
	Open VLD	0
	PS	0
	SP.a	0
	VB	1
Bulgaria	Attack	1
	BSP	1
	GERB	1
	MRF	1
	NMSP	1
	UDF	1
Croatia	HDZ	1
	HNS	1
	HSLS	1
	HSS	1
	HL-SR	1
	SDP	1
Cyprus	AKEL	1
	DIKO	1

	DISI	1
	EDEK	1
	European Party	1
	Greens	1
Czech Republic	ČSSD	0
	KDU-ČSL	1
	KSČM	1
	ODS	1
Denmark	A	1
	N	1
	O	1
	A	0
	B	1
	F	0
	V	0
Estonia	Pro Patria	1
	RP	0
	Social Democratic Party	0
Finland	KD	1
	KESK	1
	KOK	1
	PS	1
	RKP	1
	SDP	1
	VIHR	1
France	EELV	0
	FN	1
	MoDem	1
	UMP	1
Germany	Bundis 90/Die Grüne	0
	CDU	1
	CSU	0
	Die Linke	1
	FDP	0
	SPD	1
Greece	KKE	1
	ND	1
	PASOK	1

	SYRIZA	0
Hungary	Fidesz	1
	Jobbik	0
	MSZP	1
Ireland	Fianna Fail	0
	Fine Gael	0
	Green	0
	Labour	0
	Sinn Fein	1
Italy	AN	0
	FI	1
	LN	1
	PD	1
	UdC	1
Latvia	FF/LNIM	1
	FHRUL	1
	HC	1
Lithuania	LS	1
	TS-LKD	1
Luxembourg	CSV	1
	DP	1
	LSAP	1
	The Greens	
Malta	PL	1
Netherlands	CDA	0
	ChristenUnie	0
	D66	1
	GL	1
	Pvda	1
	PVV	0
	SGP	1
	SP	1
	VVD	0
Poland	PiS	1
	PO	1
	PSL	0
	SLD	1
Portugal	BE	1

	PCP	1
	PS	1
	PSD	1
Romania	PC	1
	PDL	1
	PNL	0
	PRM	1
	PSD	1
	RMDS	1
	UDMR	1
Slovakia	KDH	0
	KSS	1
	SDKÚ-DS	0
	Smer	1
	SMK	0
	SNS	1
Slovenia	Desus	1
	LDS	1
	Nsi	1
	SD	0
	SDS	0
	SLS	0
	Zares	0
Spain	PNV	0
	PP	1
	PSOE	1
	UI	1
Sweden	C	1
	FP	1
	KD	1
	M	1
	MP	0
	S	1
	V	1
United	BNP	1
Kingdom	Conservatives	0
	Greens	0
	Labour	0

	LibDems	0
	UKIP	1

Table S2: Fractional Logistic Regression and Percentage of Female Candidates

	(1) Simple Model	(2) Model with Centralized Selection	(3) Model with Interactions
Centralized Candidate Selection		0.089	−0.086
		(0.100)	(0.157)
Change in Natl Vote Share	0.162	0.108	2.330***
	(0.671)	(0.665)	(0.883)
Parties in Government	−0.006	0.003	−0.046
	(0.108)	(0.108)	(0.096)
Eastern European Parties	−0.163	−0.171	0.034
	(0.124)	(0.121)	(0.094)
Party Quota	0.159	0.143	0.549***
	(0.106)	(0.110)	(0.149)
Country Quota	0.394 * **	0.392***	0.685***
	(0.081)	(0.083)	(0.131)
Closed list	0.115	0.122	0.318*
	(0.110)	(0.110)	(0.170)
Disproportionality	0.054 * *	0.056**	−0.001
	(0.022)	(0.023)	(0.020)
i Change in Natl Vote Share			−2.758**
			(1.214)
i Parties in Government			0.072
			(0.165)
i Eastern Europen Parties			−0.321*
			(0.180)
i Party Quota			−0.472**
			(0.194)
i Country Quota			−0.436**
			(0.178)
i Closed list			−0.262
			(0.211)
i Disproportionality			0.077***
			(0.025)
Position on EU Integration	−0.054	−0.055	−0.046
	(0.035)	(0.035)	(0.035)
Left vs. Right Position	−0.030	−0.032	−0.027
	(0.021)	(0.022)	(0.023)
% of EP Delegation that is Female	0.292	0.240	0.512
	(0.522)	(0.511)	(0.569)
% of Women in Party Leadership	1.500 * **	1.548***	1.241***
	(0.358)	(0.360)	(0.367)
Constant	−1.052 * **	−1.101***	−1.023***
	(0.293)	(0.310)	(0.311)
Observations	146	146	146
Wald $\chi^2(17)$	56.95	64.87	126.7
Prob $> \chi^2$	$3.39e-08$	$2.88e-09$	0
Pseudo R^2	0.0214	0.0216	0.0272

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

S2 Candidate Gender Coding

The dependent variable of this paper, the percentage of a party's candidate list for the 2014 European elections was calculated after the candidate lists for all parties were coded for gender. Candidate lists were collected In April and May of 2014 from www.europedecides.eu. The web address and date of retrieval for each list is presented in Table S5 below. For most countries, the final date of retrieval was when *Europe Decides* denoted the list was officially confirmed by the election authorities; however, no such confirmation was never made for Italy and Greece. In total, about 11,705 candidates were recorded for the election across all 28 member states. The first round of coding for gender was taken from Brodolini et al. (2014). This study, executed by the European Parliament, offers an extensive analysis of gender on European election lists for most parties included in the analysis as well as any nationally legislated or party adopted gender quotas used in 2014. For each member state, this study provide the first half of each party's electoral list and provides the gender, as coded by national experts, for these candidates. In a few cases, only parties which had served in the EP in the previous session were included in this document. Because this source included a multitude of names for each member state along with their gender, the coding of the rest of the list was rather straight forward and completed by the author. If a name had not appeared in Brodolini et al. (2014), then its gender was corroborated using a simple internet or social media search and the database www.behindthename.com which provides a database of over 21,000 names and their gender for many different languages. The entire list of candidates and their gender is available on request from the author.

Table S3: Beta Regression and Percentage of Female Candidates

	(1) Model with Interactions
Centralized Candidate Selection	−0.140
	(0.155)
Change in Natl Vote Share	2.185*
	(1.179)
Parties in Government	−0.005
	(0.115)
Eastern European Parties	0.031
	(0.158)
Party Quota	0.522**
	(0.174)
Country Quota	0.699**
	(0.134)
Closed list	0.329**
	(0.154)
Disproportionality	0.000
	(0.022)
i Change in Natl Vote Share	−2.872**
	(1.385)
i Parties in Government	0.284**
	(0.141)
i Eastern Europen Parties	−0.311*
	(0.186)
i Party Quota	−0.258
	(0.196)
i Country Quota	−0.356**
	(0.177)
i Closed list	−0.323*
	(0.189)
i Disproportionality	0.055**
	(0.022)
Position on EU Integration	−0.038
	(0.044)
Left vs. Right Position	−0.044**
	(0.018)
% of EP Delegation that is Female	0.545
	(0.433)
% of Women in Party Leadership	0.936**
	(0.365)
Constant	−0.911***
	(0.270)
Scale Constant	3.097***
	(0.118)
Observations	138
Wald χ^2(17)	88.86
Prob $> \chi^2$	$5.28e-11$

Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table S4: Alternative Specifications

	(1) Paper Model	(2) ideology interactions	(3) election timing	(4) vote share	(5) ENP	(6) fractionalization	(7) Open and STV	(8)
Centralized Candidate Selection	-0.086	-0.164	-0.147	-0.161	0.036	0.305	-0.189	-0.091
	(0.157)	(0.291)	(0.148)	(0.177)	(0.349)	(0.320)	(0.150)	(0.157)
Change in Natl Vote Share	2.330***	2.360***	2.389***		2.019**	1.984**	2.452***	2.237**
	(0.883)	(0.873)	(0.885)		(0.966)	(0.920)	(0.927)	(0.932)
Parties in Government	-0.046	-0.049	-0.012	0.022	-0.037	-0.058	-0.001	-0.049
	(0.096)	(0.102)	(0.097)	(0.097)	(0.096)	(0.098)	(0.090)	(0.097)
Eastern European Parties	0.034	0.041	-0.023	0.006	-0.068	0.002	0.050	0.014
	(0.094)	(0.099)	(0.092)	(0.109)	(0.129)	(0.120)	(0.117)	(0.107)
Party Quota	0.549***	0.535***	0.555***	0.473***	0.437***	0.431***	0.540***	0.554***
	(0.149)	(0.162)	(0.141)	(0.167)	(0.133)	(0.135)	(0.169)	(0.153)
Country Quota	0.685***	0.686***	0.811***	0.643***	0.582***	0.549***	0.793***	0.707***
	(0.131)	(0.142)	(0.162)	(0.132)	(0.146)	(0.115)	(0.154)	(0.140)
Closed list	0.318*	0.318*	0.322*	0.326*	0.212	0.254		0.302*
	(0.170)	(0.168)	(0.167)	(0.170)	(0.160)	(0.159)		(0.183)
Disproportionality	-0.001	-0.002	0.014	0.001			0.012	-0.001
	(0.020)	(0.020)	(0.018)	(0.020)			(0.019)	(0.020)
i Change in Natl Vote Share	-2.758**	-2.781**	-2.594**		-2.035*	-1.994*	-2.912**	-2.677**
	(1.214)	(1.205)	(1.194)		(1.160)	(1.117)	(1.249)	(1.227)
i Parties in Government	0.072	0.073	-0.009	-0.025	0.236	0.259*	-0.059	0.071
	(0.165)	(0.170)	(0.175)	(0.161)	(0.154)	(0.155)	(0.170)	(0.166)
i Eastern Europen Parties	-0.321*	-0.328*	-0.314	-0.314*	-0.275	-0.353*	-0.332*	-0.321*
	(0.180)	(0.183)	(0.196)	(0.188)	(0.212)	(0.200)	(0.192)	(0.180)
i Party Quota	-0.472**	-0.458**	-0.496***	-0.417**	-0.410**	-0.408**	-0.470**	-0.480**
	(0.194)	(0.204)	(0.188)	(0.202)	(0.178)	(0.179)	(0.204)	(0.201)
i Country Quota	-0.436**	-0.440**	-0.628***	-0.394**	-0.182	-0.158	-0.560***	-0.430**
	(0.178)	(0.187)	(0.214)	(0.172)	(0.165)	(0.155)	(0.198)	(0.178)
i Closed list	-0.262	-0.263	-0.290	-0.285	-0.218	-0.258		-0.261
	(0.211)	(0.209)	(0.212)	(0.215)	(0.203)	(0.201)		(0.212)
i Disproportionality	0.077***	0.078***	0.042*	0.075***			0.048*	0.078***
	(0.025)	(0.025)	(0.022)	(0.026)			(0.027)	(0.025)
Position on EU Integration	-0.046	-0.057	-0.054	-0.045	-0.050	-0.043	-0.049	-0.042
	(0.035)	(0.043)	(0.035)	(0.037)	(0.033)	(0.033)	(0.034)	(0.037)
Left vs. Right Position	-0.027	-0.034	-0.027	-0.026	-0.034	-0.036	-0.020	-0.027
	(0.023)	(0.035)	(0.024)	(0.024)	(0.023)	(0.023)	(0.023)	(0.023)
i EU		0.014						
		(0.063)						
i Left Right		0.009						
		(0.043)						
% of EP Delegation that is female	0.512	0.513	0.151	0.526	-0.111	-0.133	0.701	32.026
	(0.569)	(0.569)	(0.494)	(0.555)	(0.467)	(0.514)	(0.554)	(88.433)
& of Women in Party Leadership	1.241***	1.246***	1.245***	1.205***	1.398***	1.332***	1.298***	1.358***
	(0.367)	(0.369)	(0.394)	(0.373)	(0.387)	(0.380)	(0.362)	(0.506)
Election Timing			-0.005					
			(0.005)					
i Election Timing			0.011**					
			(0.005)					
Vote Share				-0.781				
				(0.523)				
i Vote Share				1.034				
				(0.791)				
ENP Europe					-0.046			
					(0.039)			
i ENP Eeurope					0.015	-0.025		
					(0.043)	(0.037)		
Rae Europe						-0.026		
						(1.296)		
Open List							-0.440***	
							(0.159)	
STV							-0.513***	
							(0.156)	
i Open List							0.441**	
							(0.195)	
i STV							1.212***	
							(0.244)	
% Female in Natl Parliament								-0.317
								(0.890)
Constant	-1.023***	-0.957***	-0.839***	-0.958***	-0.393	-0.652	-0.878***	-1.005***
	(0.311)	(0.349)	(0.286)	(0.323)	(0.314)	(1.002)	(0.303)	(0.311)
Observations	146	146	146	146	140	140	146	146
Wald chi2(17)	126.7	136.8	128	134	111.6	123.2	287.5	130.9
Prob > chi2	0	0	0	0	0	0	0	0
Pseudo R2	0.0272	0.0272	0.0288	0.0267	0.0266	0.0263	0.0295	0.0273

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table S5: Candidate Lists European Election 2014

Country	Source	Date of Extractions
Austria	http://europedecides.eu/candidates/election-lists/at/	4/9/2014
Belgium	http://europedecides.eu/candidates/election-lists/be/	4/9/2014
Bulgaria	http://europedecides.eu/candidates/election-lists/bg/	4/28/2014
Croatia	http://europedecides.eu/candidates/election-lists/hr/	4/9/2014
Cyprus	http://europedecides.eu/candidates/election-lists/cy/	4/9/2014
Czech Republic	http://europedecides.eu/candidates/election-lists/cz/	4/9/2014
Denmark	http://europedecides.eu/candidates/election-lists/dk/	4/9/2014
Estonia	http://europedecides.eu/candidates/election-lists/ee/	4/9/2014
Finland	http://europedecides.eu/candidates/election-lists/fi/	4/9/2014
France	https://www.data.gouv.fr/storage/f/2014-05-05T17-51-45/euro-2014-listes-et-candidats.xlsx	5/5/2014
Germany	http://europedecides.eu/candidates/election-lists/de/	4/9/2014
Greece	http://europedecides.eu/candidates/election-lists/gr/	4/15/2014
Hungary	http://europedecides.eu/candidates/election-lists/hu/	5/1/2014
Ireland	http://europedecides.eu/candidates/election-lists/ie/	4/9/2014
Italy	http://europedecides.eu/candidates/election-lists/it/	5/1/2014
Latvia	http://europedecides.eu/candidates/election-lists/lv/	4/15/2014
Lithuania	http://europedecides.eu/candidates/election-lists/lt/	4/9/2014
Luxembourg	http://europedecides.eu/candidates/election-lists/lu/	4/9/2014
Malta	http://europedecides.eu/candidates/election-lists/mt/	4/9/2014
Netherlands	http://europedecides.eu/candidates/election-lists/nl/	4/9/2014
Poland	http://europedecides.eu/candidates/election-lists/pl/	4/9/2014
Portugal	http://europedecides.eu/candidates/election-lists/pt/	4/9/2014
Romania	http://europedecides.eu/candidates/election-lists/ro/	4/9/2014
Slovakia	http://europedecides.eu/candidates/election-lists/sk/	4/9/2014
Slovenia	http://europedecides.eu/candidates/election-lists/si/	5/1/2014
Spain	http://europedecides.eu/candidates/election-lists/es/	5/1/2014
Sweden	http://europedecides.eu/candidates/election-lists/se/	4/9/2014
United Kingdom	http://europedecides.eu/candidates/election-lists/uk/	4/9/2014

S3 Candidate Selection Coding

Party statues were collected between June of 2012 and July of 2014 from party websites. If a party did not make their statute publicly available on their website, an inquiry (in English) was sent to the party requesting this document. In most cases where a request was successful, the party statute was sent via email to the author but in a few instance only the part of the statute pertaining to candidate selection for European elections was returned. A complete list of collection dates and methods is available on request. The collected statutes have been made available to the public and scholarly community by the author through the Political Party Database Project (PPDB) which maintains an archive of party statutes. However these statues were not used by the PPDB in the creation of their data. The original documents are also available on request from the author.

If the statues could not be interpreted in their original language, excerpts of the text were translated into English using google translate. The results of these translations are also available on request from the author. Documents were searched using a series of terms relted to elections, candidate selection, and the European Parliament in the original document language. Th dictionary of terms was provided by goodle translate. The statute sections containing these words (when found) were then translated and read for content. The search started with narrow terms and become increasingly more broad if no information about candidate selection was found. These search terms included "European Parliament Candidate," "European Parliament," "candidate," "election," and "Europe." In addition, once the relevant selectorate was identified, the statutes were searched again using its name and passages pertaining to its assigned powers and functions were translated to determine which type of body the selectorate was. These bodies were coded as centralized bodies if they had the responsability of making party decisions between congresses and did not contain any representives of the party membership (i.e. no elected delegates). Similar coding was used for electoral committees assigned powers of selection. They are coded as centralized if they are a party body that is not representative of the membership and is not elected. A complete list of translated terms is avaialble on request. The coding was verified, when possible, with material offered by the

European Parliament pertaining to candidate selection for European elections (Pilet, Van Haute and Kelbel 2015; Benes et al. 2009) and coding for centralization offered by Kelbel (2018).