Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

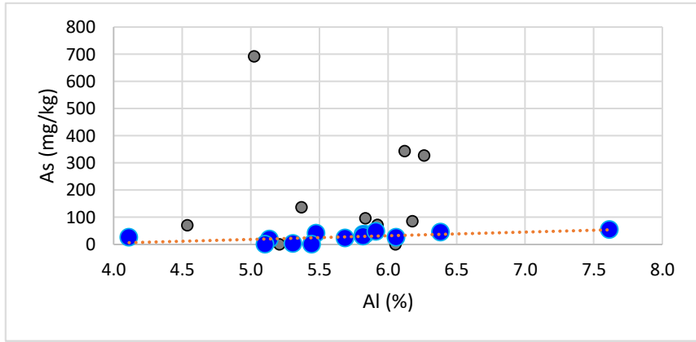
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

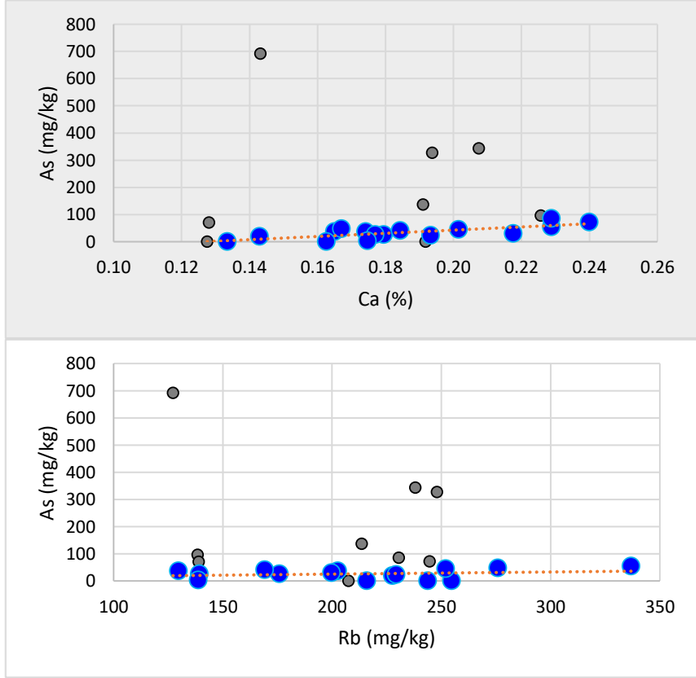
REGRESSIONS As (F2)

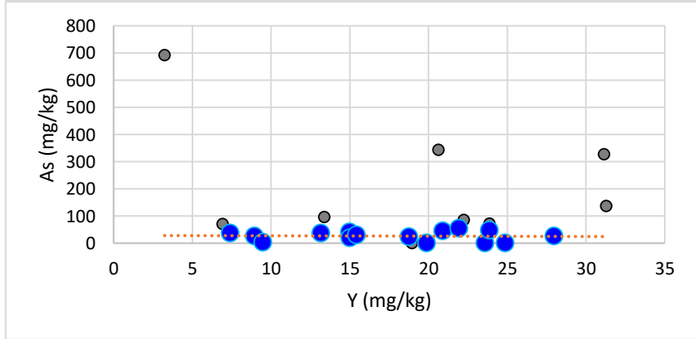
BGfunction	R	n (%)
AsBG = 13.5[Al] - 49.0	0.606	14 (61%)
AsBG = 585[Ca] - 74	0.758	16 (70%)
AsBG = 0.08[Rb] + 9.37	0.249	15 (65%)
AsBG = 0.13[Y] + 28.42	-0.045	15 (65%)

	As (F2)	Al (F2)	As(F2) - Al	Ca (F2)	As(F2) - Ca	Rb (F2)	As(F2) - Rb	Y (F2)	As(F2) - Y
POT01	25.95	4.11	25.95	0.18	25.95	175.93	25.95	27.97	25.95
POT02	40.76	5.48	40.76	0.18	40.76	169.14	40.76	14.98	40.76
POT03	19.03	5.14	19.03	0.14	19.03	227.69	19.03	15.00	19.03
POT04	37.11	5.83	37.11	0.16	37.11	202.67	37.11	7.41	37.11
POT05	0.83	5.44	0.83	0.13	0.83	254.62	0.83	19.88	0.83
POT06	44.77	6.38	44.77	0.20	44.77	251.98	44.77	20.90	44.77
POT07	n.d.	5.21		0.13		207.41		18.94	
POT08	36.38	5.82	36.38	0.17	36.38	129.66	36.38	13.16	36.38
POT09	53.90	7.62	53.90	0.23	53.90	336.92	53.90	21.94	53.90
POT10	26.17	6.06	26.17	0.18	26.17	139.31	26.17	8.94	26.17
POT11	0.99	5.11	0.99	0.16	0.99	215.95	0.99	23.59	0.99
POT12	1.05	6.06		0.19		243.79	1.05	24.86	1.05
COR01	71.71	5.92		0.24	71.71	244.55		23.86	
COR02	85.63	6.18		0.23	85.63	230.46		22.24	
COR03	23.83	5.69	23.83	0.19	23.83	229.31	23.83	18.75	23.83
COR04	343.69	6.12		0.21		238.09		20.62	
COR05	136.52	5.37		0.19		213.60		31.27	
COR06	29.98	5.82	29.98	0.22	29.98	199.79	29.98	15.42	29.98
COR07	48.20	5.91	48.20	0.17	48.20	275.83	48.20	23.87	48.20
COR08	327.39	6.26		0.19		247.92		31.15	
COR09	95.67	5.84		0.23		138.36		13.36	
COR10	2.93	5.31	2.93	0.17	2.93	138.71	2.93	9.48	2.93
COR11	70.55	4.54		0.13		138.99		6.91	
COR12	691.48	5.02		0.14		127.16		3.24	

Average	27.92	34.26	26.12	26.12
SD	17.28	23.78	18.04	18.04
RSD	0.62	0.69	0.69	0.69
1+RSD	1.6	**1.7**	1.7	1.7
1+2RSD	2.2	**2.4**	2.4	2.4
1+3RSD	2.9	**3.1**	3.1	3.1







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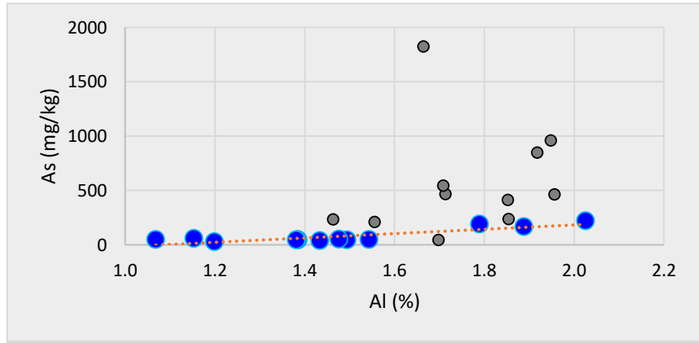
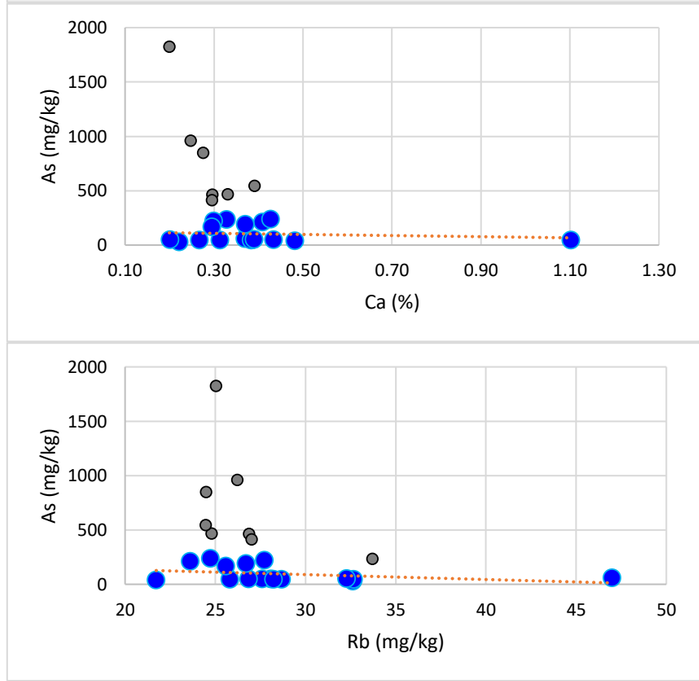
REGRESSIONS As (F63)

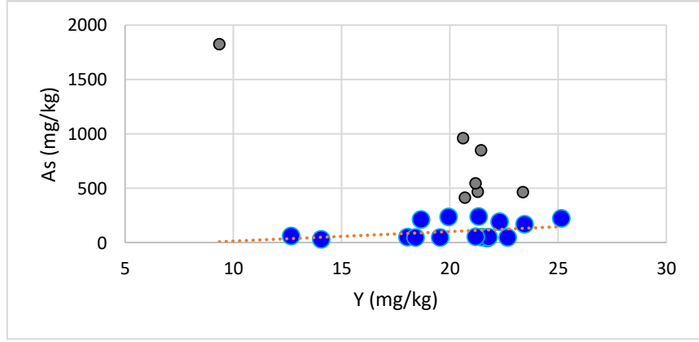
BGfunction	R	n (%)
AsBG = 199[Al] - 216	0.856	13 (54%)
AsBG = - 51.4[Ca] + 123.4	-0.123	17 (71%)
AsBG = -4.52[Rb] + 224.85	-0.333	16 (66%)
AsBG = 8.81[Y] - 75.28	0.338	17 (71%)

	As (F63)	Al (F63)	As(F63) - Al	Ca (F63)	As(F63) - Ca	Rb (F63)	As(F63) - Rb	Y (F63)	As(F63) - Y
POT01	45.77	1.39	45.77	1.10	45.77	25.82	45.77	21.71	45.77
POT02	43.41	1.70		0.31	43.41	28.69	43.41	22.69	43.41
POT03	37.56	1.43	37.56	0.48	37.56	21.72	37.56	21.72	37.56
POT04	47.18	1.38	47.18	0.39	47.18	28.09	47.18	21.48	47.18
POT05	47.60	1.54	47.60	0.43	47.60	27.60	47.60	21.80	47.60
POT06	234.39	1.46		0.33	234.39	33.70		19.94	234.39
POT07	58.00	1.15	58.00	0.37	58.00	47.00	58.00	12.67	58.00
POT08	29.60	1.20	29.60	0.22	29.60	32.63	29.60	14.07	29.60
POT09	47.14	1.07	47.14	0.20	47.14	26.86	47.14	18.06	47.14
POT10	43.57	1.38	43.57	0.27	43.57	32.68	43.57	18.43	43.57
POT11	43.52	1.49	43.52	0.38	43.52	28.24	43.52	19.56	43.52
POT12	52.03	1.48	52.03	0.39	52.03	32.29	52.03	21.21	52.03
COR01	211.40	1.56		0.41	211.40	23.62	211.40	18.68	211.40
COR02	238.26	1.85		0.43	238.26	24.73	238.26	21.35	238.26
COR03	466.29	1.71		0.33		24.80		21.28	
COR04	545.62	1.71		0.39		24.47		21.19	
COR05	847.06	1.92		0.28		24.50		21.44	
COR06	463.19	1.96		0.30		26.88		23.37	
COR07	218.98	2.03	218.98	0.30	218.98	27.72	218.98	25.16	218.98
COR08	961.39	1.95		0.25		26.22		20.60	
COR09	413.69	1.85		0.30		27.01		20.69	
COR10	191.04	1.79	191.04	0.37	191.04	26.71	191.04	22.31	191.04
COR11	165.05	1.89	165.05	0.30	165.05	25.60	165.05	23.45	165.05
COR12	1823.93	1.66		0.20		25.05		9.36	

Average		79.00		95.01	103.21
SD		65.52		78.13	82.86
RSD		0.83		0.82	0.80
1+RSD		**1.8**		1.8	1.8
1+2RSD		**2.7**		2.6	2.6
1+3RSD		**3.5**		3.5	3.4







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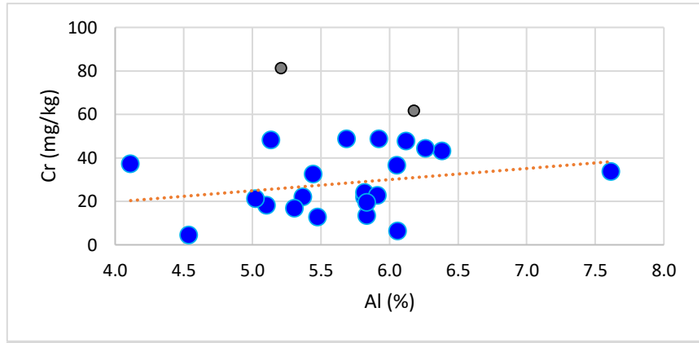
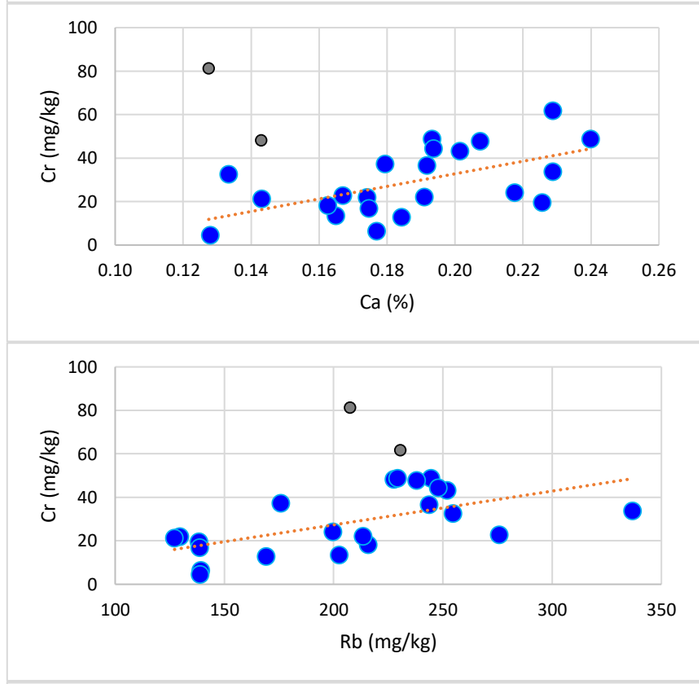
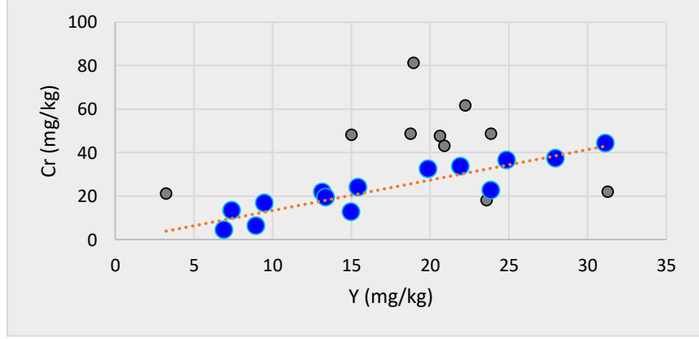
REGRESSIONS Cr (F2)

BGfunction	R	n (%)
CrBG = 5.11[Al] - 0.68	0.252	22 (92%)
CrBG = 289[Ca] - 25	0.574	22 (92%)
CrBG = 0.15[Rb] - 3.71	0.608	22 (92%)
CrBG = 1.40[Y] - 0.68	0.913	14 (58%)

	Cr (F2)	Al (F2)	Cr(F2) - Al	Ca (F2)	Cr(F2) - Ca	Rb (F2)	Cr(F2) - Rb	Y (F2)	Cr(F2) - Y
POT01	37.26	4.11	37.26	0.18	37.26	175.93	37.26	27.97	37.30
POT02	12.68	5.48	12.68	0.18	12.68	169.14	12.68	14.98	12.70
POT03	48.16	5.14	48.16	0.14		227.69	48.16	15.00	
POT04	13.38	5.83	13.38	0.16	13.38	202.67	13.38	7.41	13.40
POT05	32.39	5.44	32.39	0.13	32.39	254.62	32.39	19.88	32.40
POT06	43.10	6.38	43.10	0.20	43.10	251.98	43.10	20.90	
POT07	81.33	5.21		0.13		207.41		18.94	
POT08	21.78	5.82	21.78	0.17	21.78	129.66	21.78	13.16	21.80
POT09	33.62	7.62	33.62	0.23	33.62	336.92	33.62	21.94	33.60
POT10	6.28	6.06	6.28	0.18	6.28	139.31	6.28	8.94	6.30
POT11	18.18	5.11	18.18	0.16	18.18	215.95	18.18	23.59	
POT12	36.51	6.06	36.51	0.19	36.51	243.79	36.51	24.86	36.50
COR01	48.71	5.92	48.71	0.24	48.71	244.55	48.71	23.86	
COR02	61.63	6.18		0.23	61.63	230.46		22.24	
COR03	48.64	5.69	48.64	0.19	48.64	229.31	48.64	18.75	
COR04	47.69	6.12	47.69	0.21	47.69	238.09	47.69	20.62	
COR05	22.06	5.37	22.06	0.19	22.06	213.60	22.06	31.27	
COR06	24.06	5.82	24.06	0.22	24.06	199.79	24.06	15.42	24.10
COR07	22.66	5.91	22.66	0.17	22.66	275.83	22.66	23.87	22.70
COR08	44.31	6.26	44.31	0.19	44.31	247.92	44.31	31.15	44.30
COR09	19.46	5.84	19.46	0.23	19.46	138.36	19.46	13.36	19.50
COR10	16.78	5.31	16.78	0.17	16.78	138.71	16.78	9.48	16.80
COR11	4.52	4.54	4.52	0.13	4.52	138.99	4.52	6.91	4.50
COR12	21.12	5.02	21.12	0.14	21.12	127.16	21.12	3.24	
Average			28.33		28.95		28.33		23.28
SD			14.28		15.41		14.28		12.13
RSD			0.50		0.53		0.50		0.52
1+RSD			1.5		1.5		1.5		1.5
1+2RSD			2.0		2.1		2.0		2.0
1+3RSD			2.5		2.6		2.5		2.6







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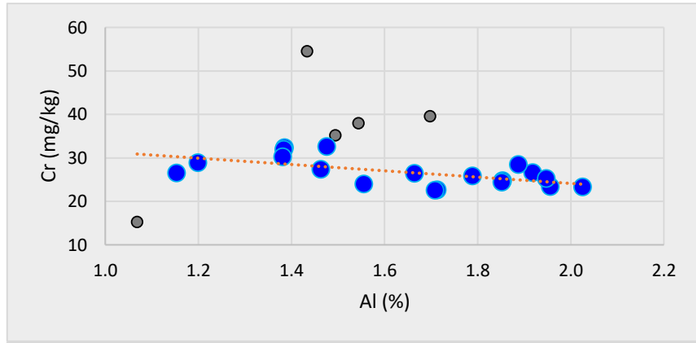
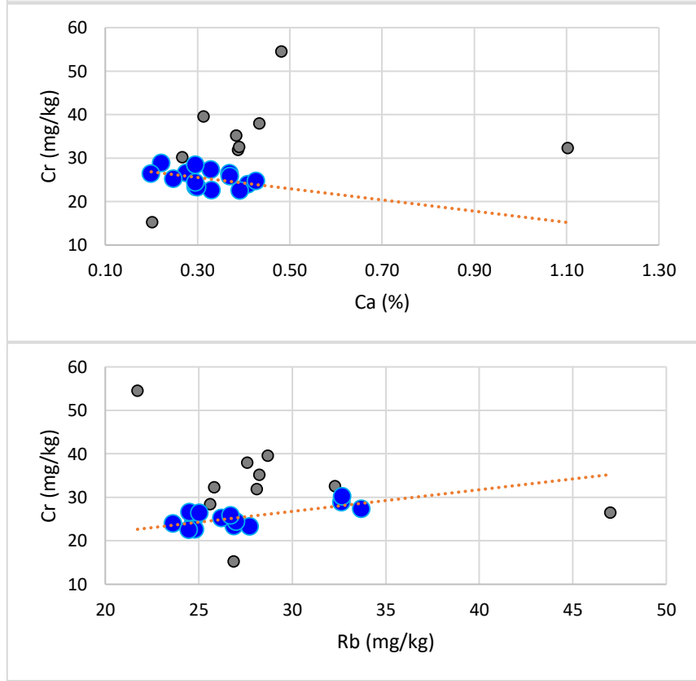
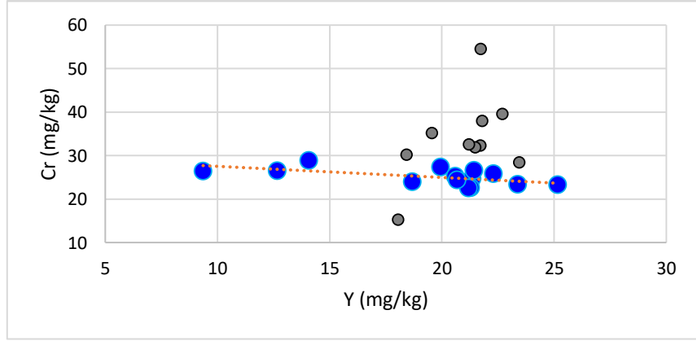
REGRESSIONS Cr (F63)

BGfunction	R	n (%)	
CrBG = -7.26[Al] + 38.64	-0.601	19 (79%)	
CrBG = - 12.9[Ca] + 29.4	-0.429	15 (63%)	
CrBG = 0.49[Rb] + 11.83	0.722	14 (58%)	DISCARDED, possible bi-modal distribution
CrBG = - 0.26[Y] + 30.10	-0.593	14 (58%)	

	Cr (F63)	Al (F63)	Cr(F63) - Al	Ca (F63)	Cr(F63) - Ca	Rb (F63)	Cr(F63) - Rb	Y (F63)	Cr(F63) - Y
POT01	32.28	1.39	32.28	1.10		25.82		21.71	
POT02	39.59	1.70		0.31		28.69		22.69	
POT03	54.49	1.43		0.48		21.72		21.72	
POT04	31.85	1.38	31.85	0.39		28.09		21.48	
POT05	38.00	1.54		0.43		27.60		21.80	
POT06	27.30	1.46	27.30	0.33	27.30	33.70	27.30	19.94	27.30
POT07	26.50	1.15	26.50	0.37	26.50	47.00		12.67	26.50
POT08	28.87	1.20	28.87	0.22	28.87	32.63	28.87	14.07	28.87
POT09	15.27	1.07		0.20		26.86		18.06	
POT10	30.21	1.38	30.21	0.27		32.68	30.21	18.43	
POT11	35.21	1.49		0.38		28.24		19.56	
POT12	32.55	1.48	32.55	0.39		32.29		21.21	
COR01	23.98	1.56	23.98	0.41	23.98	23.62	23.98	18.68	23.98
COR02	24.68	1.85	24.68	0.43	24.68	24.73	24.68	21.35	24.68
COR03	22.59	1.71	22.59	0.33	22.59	24.80	22.59	21.28	22.59
COR04	22.50	1.71	22.50	0.39	22.50	24.47	22.50	21.19	22.50
COR05	26.57	1.92	26.57	0.28	26.57	24.50	26.57	21.44	26.57
COR06	23.37	1.96	23.37	0.30	23.37	26.88	23.37	23.37	23.37
COR07	23.26	2.03	23.26	0.30	23.26	27.72	23.26	25.16	23.26
COR08	25.23	1.95	25.23	0.25	25.23	26.22	25.23	20.60	25.23
COR09	24.39	1.85	24.39	0.30	24.39	27.01	24.39	20.69	24.39
COR10	25.81	1.79	25.81	0.37	25.81	26.71	25.81	22.31	25.81
COR11	28.41	1.89	28.41	0.30	28.41	25.60		23.45	
COR12	26.44	1.66	26.44	0.20	26.44	25.05	26.44	9.36	26.44
Average			26.67		25.33		25.37		25.11
SD			3.24		2.02		2.32		1.90
RSD			0.12		0.08		0.09		0.08
1+RSD			1.1		1.1		1.1		1.1
1+2RSD			1.2		1.2		1.2		1.2
1+3RSD			1.4		1.2		1.3		1.2







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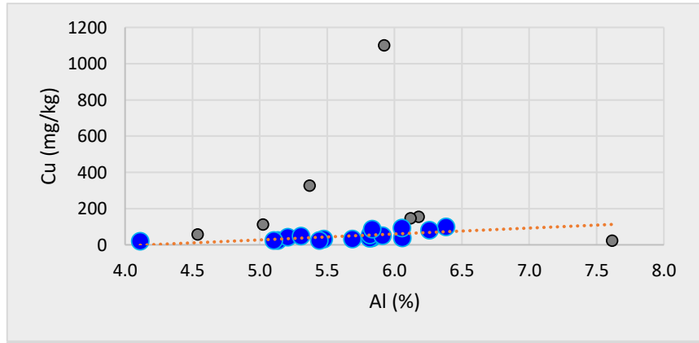
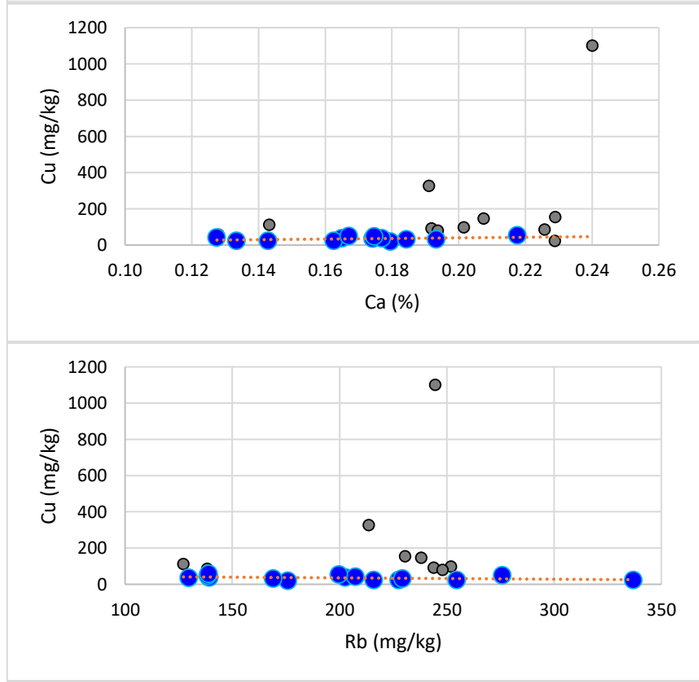
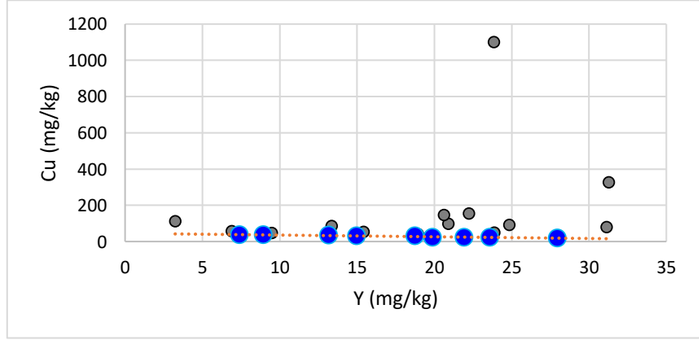
REGRESSIONS Cu (F2)

BGfunction	R	n (%)
CuBG = 32.6[Al] - 136.0	0.688	17 (71%)
CuBG = 168[Ca] + 6	0.365	13 (54%)
CuBG = -0.07[Rb] + 50.24	-0.347	15 (63%)
CuBG = -0.95[Y] + 45.16	-0.952	9 (38%)

	Cu (F2)	Al (F2)	Cu(F2) - Al	Ca (F2)	Cu(F2) - Ca	Rb (F2)	Cu(F2) - Rb	Y (F2)	Cu(F2) - Y
POT01	19.02	4.11	19.02	0.18	19.02	175.93	19.02	27.97	19.02
POT02	30.10	5.48	30.10	0.18	30.10	169.14	30.10	14.98	30.10
POT03	22.33	5.14	22.33	0.14	22.33	227.69	22.33	15.00	
POT04	36.85	5.83	36.85	0.16	36.85	202.67	36.85	7.41	36.85
POT05	23.28	5.44	23.28	0.13	23.28	254.62	23.28	19.88	23.28
POT06	96.86	6.38	96.86	0.20		251.98		20.90	
POT07	41.60	5.21	41.60	0.13	41.60	207.41	41.60	18.94	
POT08	34.88	5.82	34.88	0.17	34.88	129.66	34.88	13.16	34.88
POT09	23.50	7.62		0.23		336.92	23.50	21.94	23.50
POT10	36.76	6.06	36.76	0.18	36.76	139.31	36.76	8.94	36.76
POT11	22.42	5.11	22.42	0.16	22.42	215.95	22.42	23.59	22.42
POT12	91.71	6.06	91.71	0.19		243.79		24.86	
COR01	1101.58	5.92		0.24		244.55		23.86	
COR02	154.10	6.18		0.23		230.46		22.24	
COR03	31.46	5.69	31.46	0.19	31.46	229.31	31.46	18.75	31.46
COR04	146.40	6.12		0.21		238.09		20.62	
COR05	326.12	5.37		0.19		213.60		31.27	
COR06	53.99	5.82	53.99	0.22	53.99	199.79	53.99	15.42	
COR07	48.82	5.91	48.82	0.17	48.82	275.83	48.82	23.87	
COR08	80.20	6.26	80.20	0.19		247.92		31.15	
COR09	86.02	5.84	86.02	0.23		138.36		13.36	
COR10	47.90	5.31	47.90	0.17	47.90	138.71	47.90	9.48	
COR11	56.64	4.54		0.13		138.99	56.64	6.91	
COR12	111.71	5.02		0.14		127.16		3.24	
Average			47.31		34.57		35.30		28.70
SD			25.78		11.23		12.29		6.79
RSD			0.54		0.32		0.35		0.24
1+RSD			**1.5**		1.3		1.3		1.2
1+2RSD			**2.1**		1.6		1.7		1.5
1+3RSD			**2.6**		2.0		2.0		1.7







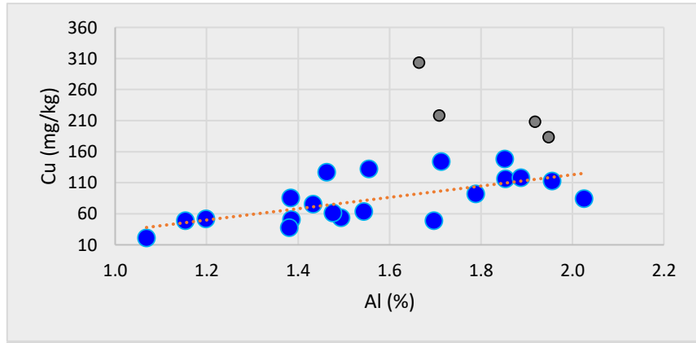
Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

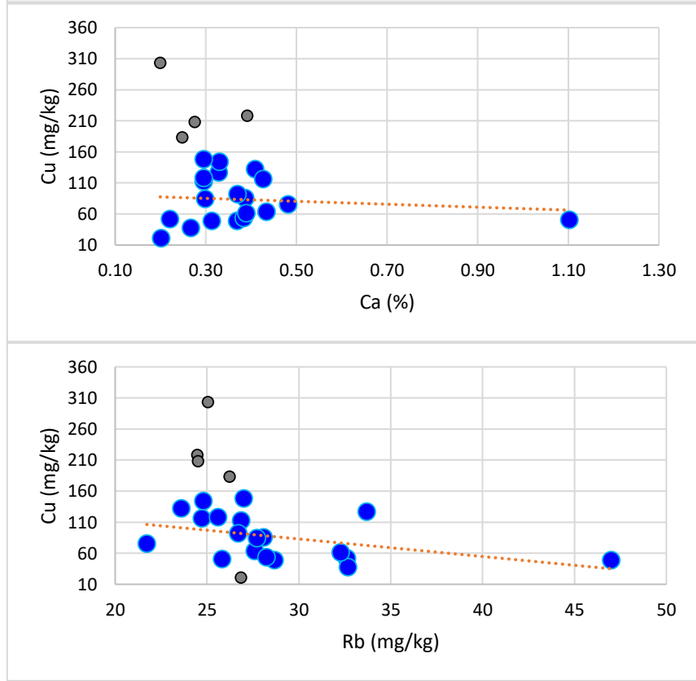
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

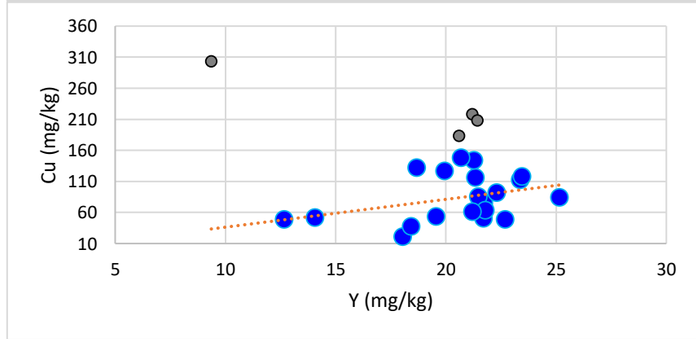
REGRESSIONS Cu (F63)

BGfunction	R	n (%)
CuBG = 91.1[Al] - 59.4	0.652	20 (83%)
CuBG = -23.6[Ca] + 92.3	-0.114	20 (83%)
CuBG = -2.82[Rb] + 167.62	-0.427	19 (79%)
CuBG = 4.47[Y] - 8.43	0.353	20 (83%)

	Cu (F63)	Al (F63)	Cu(F63) - Al	Ca (F63)	Cu(F63) - Ca	Rb (F63)	Cu(F63) - Rb	Y (F63)	Cu(F63) - Y
POT01	50.18	1.39	50.18	1.10	50.18	25.82	50.18	21.71	50.18
POT02	48.54	1.70	48.54	0.31	48.54	28.69	48.54	22.69	48.54
POT03	75.11	1.43	75.11	0.48	75.11	21.72	75.11	21.72	75.11
POT04	85.04	1.38	85.04	0.39	85.04	28.09	85.04	21.48	85.04
POT05	63.60	1.54	63.60	0.43	63.60	27.60	63.60	21.80	63.60
POT06	126.55	1.46	126.55	0.33	126.55	33.70	126.55	19.94	126.55
POT07	48.39	1.15	48.39	0.37	48.39	47.00	48.39	12.67	48.39
POT08	51.31	1.20	51.31	0.22	51.31	32.63	51.31	14.07	51.31
POT09	20.94	1.07	20.94	0.20	20.94	26.86		18.06	20.94
POT10	37.08	1.38	37.08	0.27	37.08	32.68	37.08	18.43	37.08
POT11	53.06	1.49	53.06	0.38	53.06	28.24	53.06	19.56	53.06
POT12	60.77	1.48	60.77	0.39	60.77	32.29	60.77	21.21	60.77
COR01	132.10	1.56	132.10	0.41	132.10	23.62	132.10	18.68	132.10
COR02	115.99	1.85	115.99	0.43	115.99	24.73	115.99	21.35	115.99
COR03	143.64	1.71	143.64	0.33	143.64	24.80	143.64	21.28	143.64
COR04	218.03	1.71		0.39		24.47		21.19	
COR05	208.07	1.92		0.28		24.50		21.44	
COR06	112.42	1.96	112.42	0.30	112.42	26.88	112.42	23.37	112.42
COR07	84.29	2.03	84.29	0.30	84.29	27.72	84.29	25.16	84.29
COR08	183.19	1.95		0.25		26.22		20.60	
COR09	147.63	1.85	147.63	0.30	147.63	27.01	147.63	20.69	147.63
COR10	91.70	1.79	91.70	0.37	91.70	26.71	91.70	22.31	91.70
COR11	117.54	1.89	117.54	0.30	117.54	25.60	117.54	23.45	117.54
COR12	303.03	1.66		0.20		25.05		9.36	
Average			83.29		83.29		86.58		83.29
SD			38.15		38.15		36.17		38.15
RSD			0.46		0.46		0.42		0.46
1+RSD			**1.5**		1.5		1.4		1.5
1+2RSD			**1.9**		1.9		1.8		1.9
1+3RSD			**2.4**		2.4		2.3		2.4







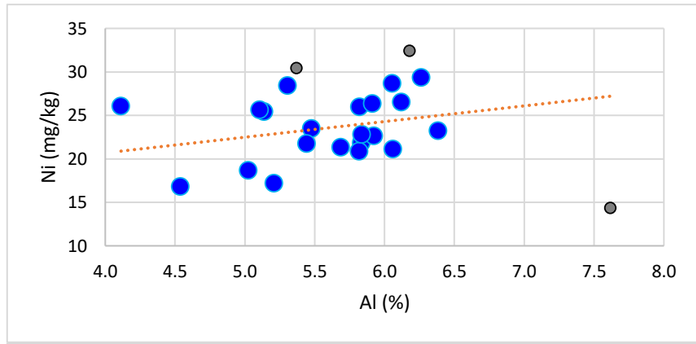
Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

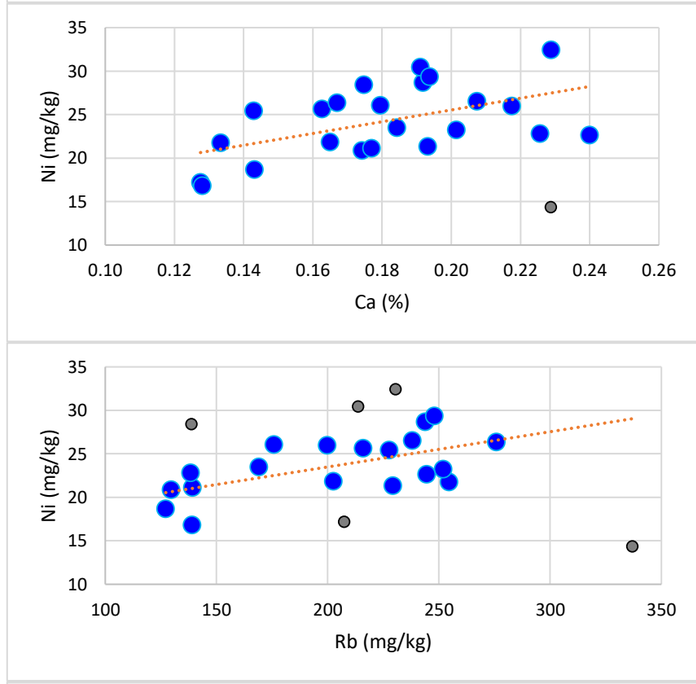
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

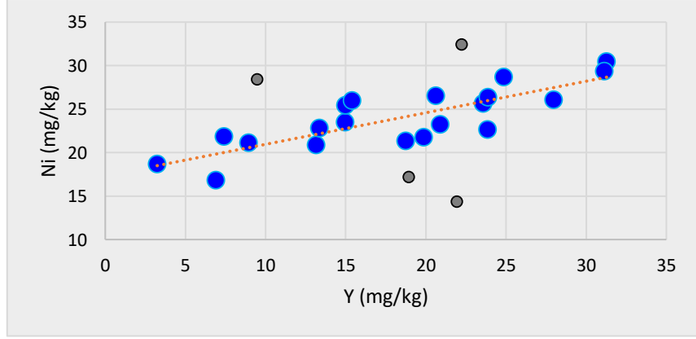
REGRESSIONS Ni (F2)

BGfunction	R	n (%)
NiBG = 1.80[Al] + 13.48	0.289	21 (88%)
NiBG = 67.6[Ca] + 12.0	0.525	23 (96%)
NiBG = 0.04[Rb] + 15.39	0.613	19 (79%)
NiBG = 0.36[Y] + 17.32	0.825	20 (83%)

	Ni (F2)	Al (F2)	Ni(F2) - Al	Ca (F2)	Ni(F2) - Ca	Rb (F2)	Ni(F2) - Rb	Y (F2)	Ni(F2) - Y
POT01	26.05	4.11	26.05	0.18	26.05	175.93	26.05	27.97	26.05
POT02	23.49	5.48	23.49	0.18	23.49	169.14	23.49	14.98	23.49
POT03	25.40	5.14	25.40	0.14	25.40	227.69	25.40	15.00	25.40
POT04	21.85	5.83	21.85	0.16	21.85	202.67	21.85	7.41	21.85
POT05	21.77	5.44	21.77	0.13	21.77	254.62	21.77	19.88	21.77
POT06	23.21	6.38	23.21	0.20	23.21	251.98	23.21	20.90	23.21
POT07	17.19	5.21	17.19	0.13	17.19	207.41		18.94	
POT08	20.86	5.82	20.86	0.17	20.86	129.66	20.86	13.16	20.86
POT09	14.35	7.62		0.23		336.92		21.94	
POT10	21.11	6.06	21.11	0.18	21.11	139.31	21.11	8.94	21.11
POT11	25.62	5.11	25.62	0.16	25.62	215.95	25.62	23.59	25.62
POT12	28.68	6.06	28.68	0.19	28.68	243.79	28.68	24.86	28.68
COR01	22.64	5.92	22.64	0.24	22.64	244.55	22.64	23.86	22.64
COR02	32.44	6.18		0.23	32.44	230.46		22.24	
COR03	21.32	5.69	21.32	0.19	21.32	229.31	21.32	18.75	21.32
COR04	26.51	6.12	26.51	0.21	26.51	238.09	26.51	20.62	26.51
COR05	30.46	5.37		0.19	30.46	213.60		31.27	30.46
COR06	25.96	5.82	25.96	0.22	25.96	199.79	25.96	15.42	25.96
COR07	26.35	5.91	26.35	0.17	26.35	275.83	26.35	23.87	26.35
COR08	29.33	6.26	29.33	0.19	29.33	247.92	29.33	31.15	29.33
COR09	22.81	5.84	22.81	0.23	22.81	138.36	22.81	13.36	22.81
COR10	28.42	5.31	28.42	0.17	28.42	138.71		9.48	
COR11	16.80	4.54	16.80	0.13	16.80	138.99	16.80	6.91	16.80
COR12	18.67	5.02	18.67	0.14	18.67	127.16	18.67	3.24	18.67
Average			23.52		24.21		23.60		23.94
SD			3.57		4.11		3.26		3.52
RSD			0.15		0.17		0.14		0.15
1+RSD			1.2		1.2		1.1		**1.1**
1+2RSD			1.3		1.3		1.3		**1.3**
1+3RSD			1.5		1.5		1.4		**1.4**







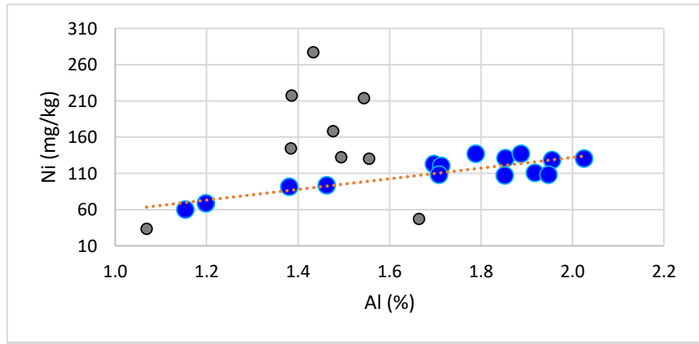
Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

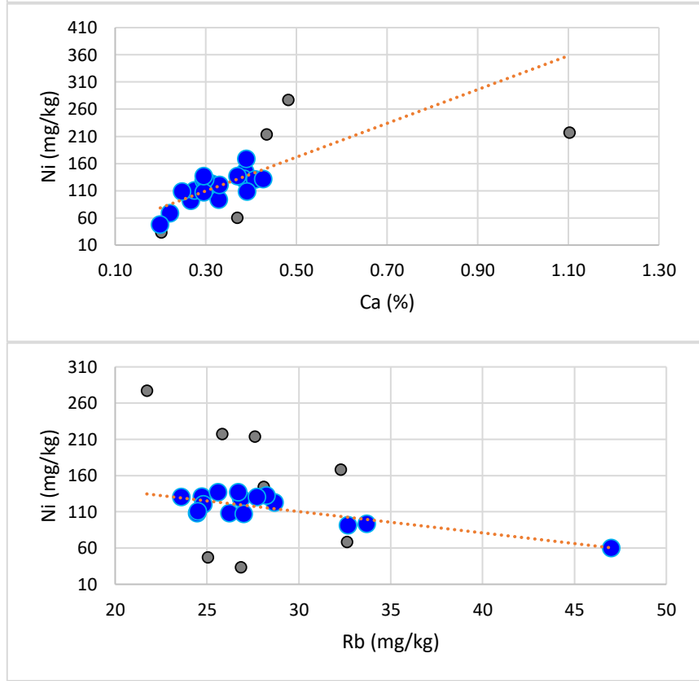
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

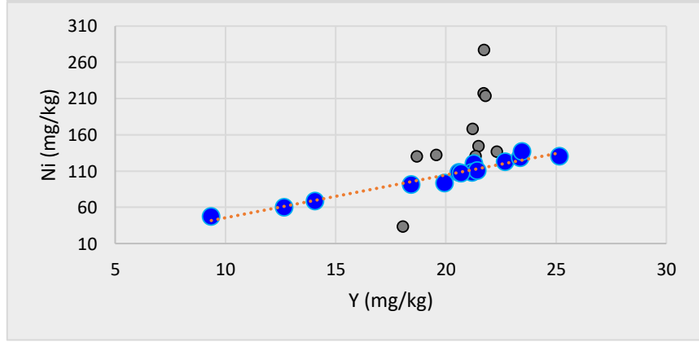
REGRESSIONS Ni (F63)

BGfunction	R	n (%)
NiBG = 73.5[Al] - 15.14	0.867	15 (63%)
NiBG = 311[Ca] + 16	0.733	19 (79%)
NiBG = -2.94[Rb] + 198.61	-0.812	16 (66%)
NiBG = 5.91[Y] - 13.52	0.977	14 (58%)

	Ni (F63)	Al (F63)	Ni(F63) - Al	Ca (F63)	Ni(F63) - Ca	Rb (F63)	Ni(F63) - Rb	Y (F63)	Ni(F63) - Y
POT01	217.14	1.39		1.10		25.82		21.71	
POT02	122.60	1.70	122.60	0.31	122.60	28.69	122.60	22.69	122.60
POT03	276.88	1.43		0.48		21.72		21.72	
POT04	144.53	1.38		0.39	144.53	28.09		21.48	
POT05	213.80	1.54		0.43		27.60		21.80	
POT06	93.19	1.46	93.19	0.33	93.19	33.70	93.19	19.94	93.19
POT07	59.91	1.15	59.91	0.37		47.00	59.91	12.67	59.91
POT08	68.29	1.20	68.29	0.22	68.29	32.63		14.07	68.29
POT09	33.48	1.07		0.20		26.86		18.06	
POT10	91.39	1.38	91.39	0.27	91.39	32.68	91.39	18.43	91.39
POT11	132.03	1.49		0.38	132.03	28.24	132.03	19.56	
POT12	168.37	1.48		0.39	168.37	32.29		21.21	
COR01	130.45	1.56		0.41	130.45	23.62	130.45	18.68	
COR02	130.77	1.85	130.77	0.43	130.77	24.73	130.77	21.35	
COR03	120.25	1.71	120.25	0.33	120.25	24.80	120.25	21.28	120.25
COR04	108.10	1.71	108.10	0.39	108.10	24.47	108.10	21.19	108.10
COR05	110.44	1.92	110.44	0.28	110.44	24.50	110.44	21.44	110.44
COR06	128.32	1.96	128.32	0.30	128.32	26.88	128.32	23.37	128.32
COR07	130.23	2.03	130.23	0.30	130.23	27.72	130.23	25.16	130.23
COR08	108.06	1.95	108.06	0.25	108.06	26.22	108.06	20.60	108.06
COR09	106.91	1.85	106.91	0.30	106.91	27.01	106.91	20.69	106.91
COR10	136.72	1.79	136.72	0.37	136.72	26.71	136.72	22.31	
COR11	136.70	1.89	136.70	0.30	136.70	25.60	136.70	23.45	136.70
COR12	47.35	1.66		0.20	47.35	25.05		9.36	47.35
Average			110.13		116.56		115.38		102.27
SD			23.55		27.75		20.76		27.32
RSD			0.21		0.24		0.18		0.27
1+RSD			1.2		1.2		1.2		**1.3**
1+2RSD			1.4		1.5		1.4		**1.5**
1+3RSD			1.6		1.7		1.5		**1.8**







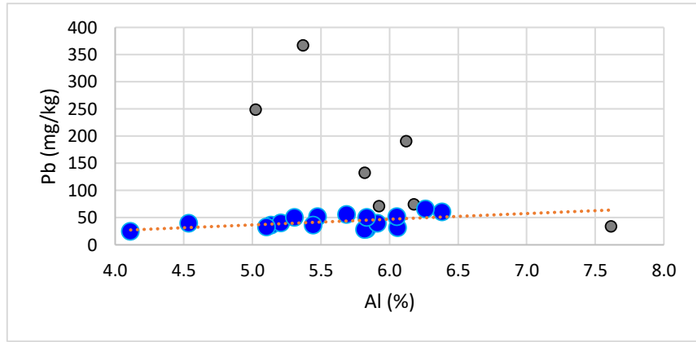
Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

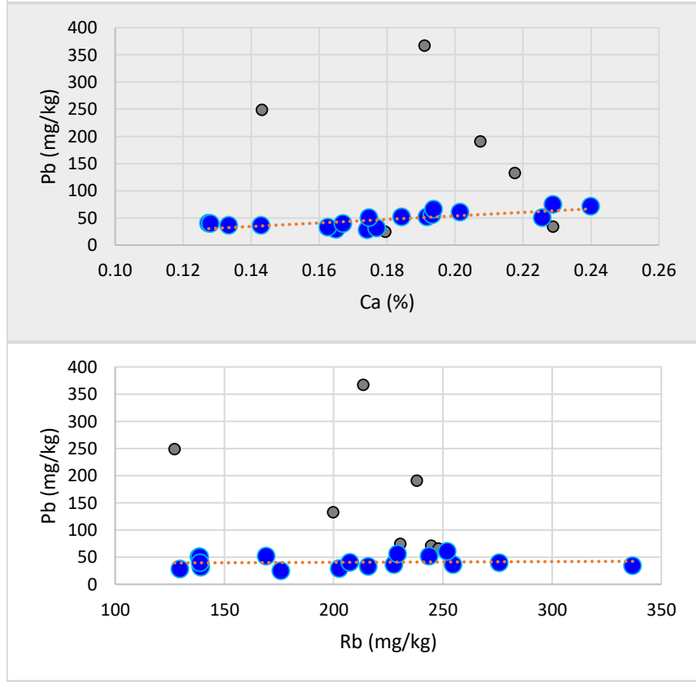
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

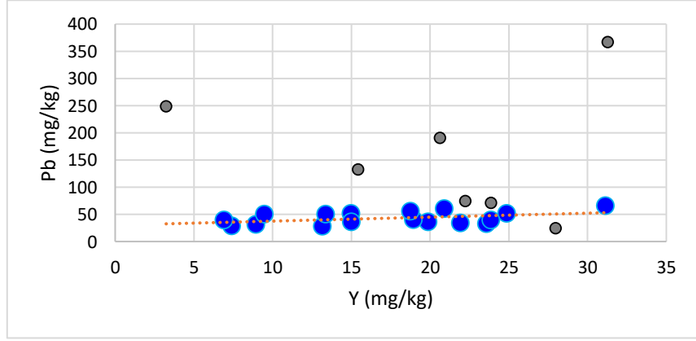
REGRESSIONS Pb (F2)

BGfunction	R	n (%)
PbBG = 10.4[Al] - 15.7	0.516	17 (71%)
PbBG = 324[Ca] - 11	0.746	18 (75%)
PbBG = 0.01[Rb] + 37.60	0.076	17 (71%)
PbBG = 0.73[Y] + 30.24	0.438	17 (71%)

	Pb (F2)	Al (F2)	Pb(F2) - Al	Ca (F2)	Pb(F2) - Ca	Rb (F2)	Pb(F2) - Rb	Y (F2)	Pb(F2) - Y
POT01	24.27	4.11	24.27	0.18		175.93	24.27	27.97	
POT02	51.19	5.48	51.19	0.18	51.19	169.14	51.19	14.98	51.19
POT03	35.82	5.14	35.82	0.14	35.82	227.69	35.82	15.00	35.82
POT04	28.46	5.83	28.46	0.16	28.46	202.67	28.46	7.41	28.46
POT05	35.88	5.44	35.88	0.13	35.88	254.62	35.88	19.88	35.88
POT06	60.10	6.38	60.10	0.20	60.10	251.98	60.10	20.90	60.10
POT07	40.25	5.21	40.25	0.13	40.25	207.41	40.25	18.94	40.25
POT08	27.83	5.82	27.83	0.17	27.83	129.66	27.83	13.16	27.83
POT09	33.67	7.62		0.23		336.92	33.67	21.94	33.67
POT10	31.10	6.06	31.10	0.18	31.10	139.31	31.10	8.94	31.10
POT11	32.60	5.11	32.60	0.16	32.60	215.95	32.60	23.59	32.60
POT12	51.46	6.06	51.46	0.19	51.46	243.79	51.46	24.86	51.46
COR01	70.89	5.92		0.24	70.89	244.55		23.86	
COR02	74.26	6.18		0.23	74.26	230.46		22.24	
COR03	55.44	5.69	55.44	0.19	55.44	229.31	55.44	18.75	55.44
COR04	190.85	6.12		0.21		238.09		20.62	
COR05	366.95	5.37		0.19		213.60		31.27	
COR06	132.82	5.82		0.22		199.79		15.42	
COR07	39.35	5.91	39.35	0.17	39.35	275.83	39.35	23.87	39.35
COR08	65.44	6.26	65.44	0.19	65.44	247.92		31.15	65.44
COR09	50.32	5.84	50.32	0.23	50.32	138.36	50.32	13.36	50.32
COR10	50.38	5.31	50.38	0.17	50.38	138.71	50.38	9.48	50.38
COR11	39.28	4.54	39.28	0.13	39.28	138.99	39.28	6.91	39.28
COR12	248.46	5.02		0.14		127.16		3.24	
Average			42.30		46.67		40.43		42.86
SD			12.17		14.43		10.75		11.49
RSD			0.29		0.31		0.27		0.27
1+RSD			1.3		**1.3**		1.3		1.3
1+2RSD			1.6		**1.6**		1.5		1.5
1+3RSD			1.9		**1.9**		1.8		1.8







Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

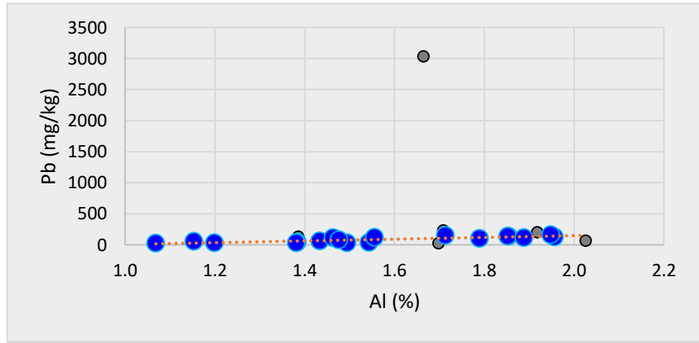
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

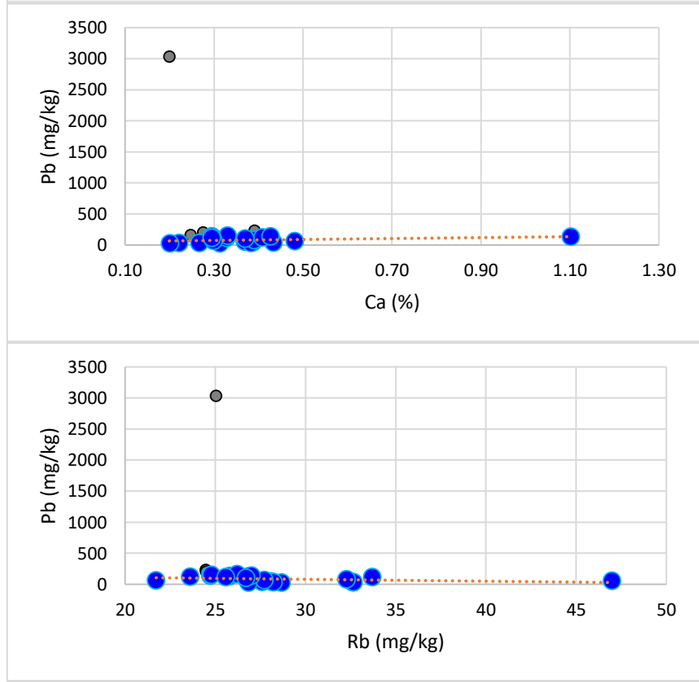
REGRESSIONS Pb (F63)

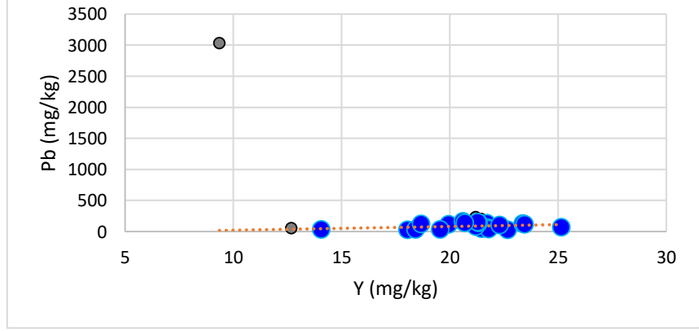
BGfunction	R	n (%)
PbBG = 141[Al] - 134	0.815	18 (75%)
PbBG = 75.7[Ca] + 52.1	0.311	20 (83%)
PbBG = -3.03[Rb] + 171.18	-0.336	21 (88%)
PbBG = 5.96[Y] - 38.21	0.295	20 (83%)

	Pb (F63)	Al (F63)	Pb(F63) - Al	Ca (F63)	Pb(F63) - Ca	Rb (F63)	Pb(F63) - Rb	Y (F63)	Pb(F63) - Y
POT01	133.22	1.39		1.10	133.22	25.82	133.22	21.71	133.22
POT02	28.03	1.70		0.31	28.03	28.69	28.03	22.69	28.03
POT03	59.65	1.43	59.65	0.48	59.65	21.72	59.65	21.72	59.65
POT04	43.27	1.38	43.27	0.39	43.27	28.09	43.27	21.48	43.27
POT05	38.00	1.54	38.00	0.43	38.00	27.60	38.00	21.80	38.00
POT06	116.23	1.46	116.23	0.33	116.23	33.70	116.23	19.94	116.23
POT07	55.30	1.15	55.30	0.37	55.30	47.00	55.30	12.67	
POT08	28.51	1.20	28.51	0.22	28.51	32.63	28.51	14.07	28.51
POT09	23.47	1.07	23.47	0.20	23.47	26.86	23.47	18.06	23.47
POT10	33.20	1.38	33.20	0.27	33.20	32.68	33.20	18.43	33.20
POT11	28.36	1.49	28.36	0.38	28.36	28.24	28.36	19.56	28.36
POT12	81.28	1.48	81.28	0.39	81.28	32.29	81.28	21.21	81.28
COR01	119.39	1.56	119.39	0.41	119.39	23.62	119.39	18.68	119.39
COR02	135.85	1.85	135.85	0.43	135.85	24.73	135.85	21.35	135.85
COR03	150.94	1.71	150.94	0.33	150.94	24.80	150.94	21.28	150.94
COR04	230.16	1.71		0.39		24.47		21.19	
COR05	203.54	1.92		0.28		24.50		21.44	
COR06	123.93	1.96	123.93	0.30	123.93	26.88	123.93	23.37	123.93
COR07	68.34	2.03		0.30	68.34	27.72	68.34	25.16	68.34
COR08	163.89	1.95	163.89	0.25		26.22	163.89	20.60	163.89
COR09	136.21	1.85	136.21	0.30	136.21	27.01	136.21	20.69	136.21
COR10	102.09	1.79	102.09	0.37	102.09	26.71	102.09	22.31	102.09
COR11	112.31	1.89	112.31	0.30	112.31	25.60	112.31	23.45	112.31
COR12	3030.73	1.66		0.20		25.05		9.36	

Average		86.21	80.88	84.83	86.31
SD		47.79	44.80	47.27	48.00
RSD		0.55	0.55	0.56	0.56
1+RSD		**1.6**	1.6	1.6	1.6
1+2RSD		**2.1**	2.1	2.1	2.1
1+3RSD		**2.7**	2.7	2.7	2.7







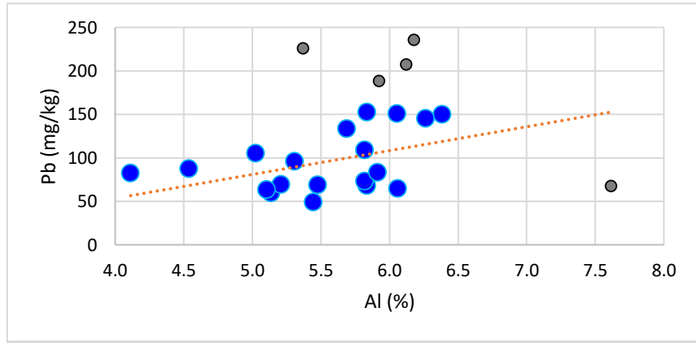
Distinctive Accumulation Patterns of Trace Elements in Sediments of Bedrock Rivers (Miño River, NW Iberian Peninsula)

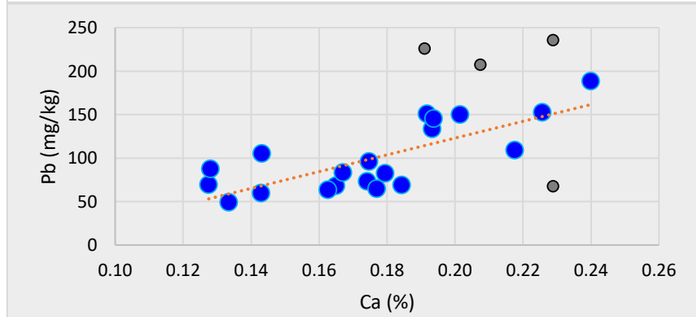
Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

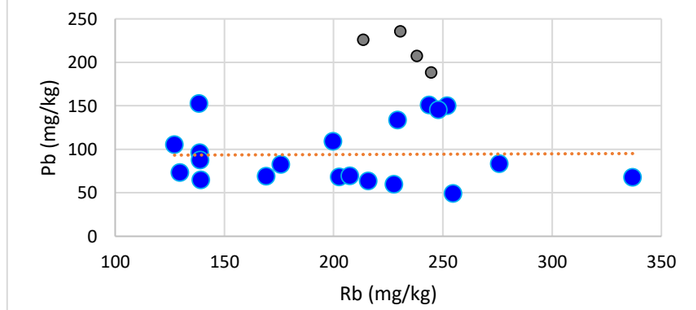
REGRESSIONS Zn (F2)

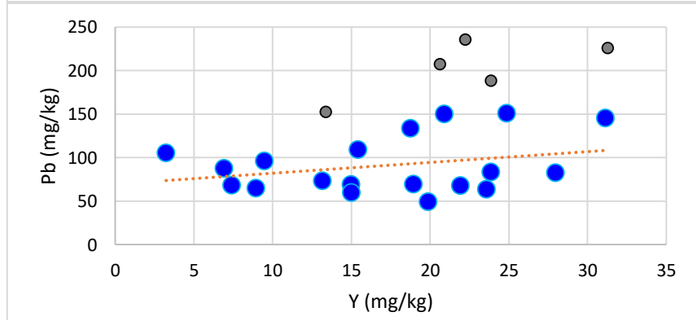
BGfunction	R	n (%)
ZnBG = 27.4[Al] - 56.2	0.457	19 (79%)
ZnBG = 964[Ca] - 70	0.764	20 (83%)
ZnBG = 0.01[Rb] + 92.21	0.015	20 (83%)
ZnBG = 1.24[Y] + 69.58	0.292	19 (79%)

	Zn (F2)	Al (F2)	Zn(F2) - Al	Ca (F2)	Zn(F2) - Ca	Rb (F2)	Zn(F2) - Rb	Y (F2)	Zn(F2) - Y
POT01	82.28	4.11	82.28	0.18	82.28	175.93	82.28	27.97	82.28
POT02	69.12	5.48	69.12	0.18	69.12	169.14	69.12	14.98	69.12
POT03	59.54	5.14	59.54	0.14	59.54	227.69	59.54	15.00	59.54
POT04	67.88	5.83	67.88	0.16	67.88	202.67	67.88	7.41	67.88
POT05	49.25	5.44	49.25	0.13	49.25	254.62	49.25	19.88	49.25
POT06	150.18	6.38	150.18	0.20	150.18	251.98	150.18	20.90	150.18
POT07	69.19	5.21	69.19	0.13	69.19	207.41	69.19	18.94	69.19
POT08	73.32	5.82	73.32	0.17	73.32	129.66	73.32	13.16	73.32
POT09	67.74	7.62		0.23		336.92	67.74	21.94	67.74
POT10	64.91	6.06	64.91	0.18	64.91	139.31	64.91	8.94	64.91
POT11	63.32	5.11	63.32	0.16	63.32	215.95	63.32	23.59	63.32
POT12	150.78	6.06	150.78	0.19	150.78	243.79	150.78	24.86	150.78
COR01	188.39	5.92		0.24	188.39	244.55		23.86	
COR02	235.51	6.18		0.23		230.46		22.24	
COR03	133.32	5.69	133.32	0.19	133.32	229.31	133.32	18.75	133.32
COR04	207.33	6.12		0.21		238.09		20.62	
COR05	226.04	5.37		0.19		213.60		31.27	
COR06	109.11	5.82	109.11	0.22	109.11	199.79	109.11	15.42	109.11
COR07	83.19	5.91	83.19	0.17	83.19	275.83	83.19	23.87	83.19
COR08	145.18	6.26	145.18	0.19	145.18	247.92	145.18	31.15	145.18
COR09	152.68	5.84	152.68	0.23	152.68	138.36	152.68	13.36	
COR10	96.15	5.31	96.15	0.17	96.15	138.71	96.15	9.48	96.15
COR11	87.31	4.54	87.31	0.13	87.31	138.99	87.31	6.91	87.31
COR12	105.37	5.02	105.37	0.14	105.37	127.16	105.37	3.24	105.37
Average			95.37		100.02		93.99		90.90
SD			34.91		39.84		34.54		32.52
RSD			0.37		0.40		0.37		0.36
1+RSD			1.4		**1.4**		1.4		1.4
1+2RSD			1.7		**1.8**		1.7		1.7
1+3RSD			2.1		**2.2**		2.1		2.1









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Álvarez-Vázquez, M.A.; De Uña-Álvarez, E.; Ramírez-Pérez, A.M.; DE Blas, E.; Prego, R.

REGRESSIONS Zn (F63)

BGfunction	R	n (%)	
ZnBG = -23.1[Al] + 376.5	-0.169	14 (58%)	
ZnBG = 641[Ca] + 121	0.736	20 (83%)	
ZnBG = -3.73[Rb] + 422.03	-0.602	12 (50%)	
ZnBG = 13.3[Y] + 56.9	0.840	19 (79%)	DISCARDED, possible bi-modal distribution

	Zn (F63)	Al (F63)	Zn(F63) - Al	Ca (F63)	Zn(F63) - Ca	Rb (F63)	Zn(F63) - Rb	Y (F63)	Zn(F63) - Y
POT01	451.88	1.39		1.10		25.82		21.71	
POT02	375.22	1.70	375.22	0.31	375.22	28.69		22.69	375.22
POT03	526.51	1.43		0.48		21.72		21.72	
POT04	399.64	1.38		0.39	399.64	28.09		21.48	399.64
POT05	462.00	1.54		0.43	462.00	27.60		21.80	
POT06	309.49	1.46	309.49	0.33	309.49	33.70	309.49	19.94	309.49
POT07	202.76	1.15		0.37		47.00	202.76	12.67	202.76
POT08	208.64	1.20		0.22	208.64	32.63		14.07	208.64
POT09	130.49	1.07		0.20		26.86		18.06	
POT10	281.26	1.38		0.27	281.26	32.68	281.26	18.43	281.26
POT11	365.53	1.49	365.53	0.38	365.53	28.24		19.56	365.53
POT12	386.08	1.48		0.39	386.08	32.29		21.21	386.08
COR01	332.96	1.56	332.96	0.41	332.96	23.62	332.96	18.68	332.96
COR02	353.30	1.85	353.30	0.43	353.30	24.73	353.30	21.35	353.30
COR03	328.54	1.71	328.54	0.33	328.54	24.80	328.54	21.28	328.54
COR04	309.31	1.71	309.31	0.39	309.31	24.47	309.31	21.19	309.31
COR05	307.67	1.92	307.67	0.28	307.67	24.50	307.67	21.44	307.67
COR06	320.54	1.96	320.54	0.30	320.54	26.88	320.54	23.37	320.54
COR07	307.77	2.03	307.77	0.30	307.77	27.72	307.77	25.16	
COR08	330.91	1.95	330.91	0.25	330.91	26.22	330.91	20.60	330.91
COR09	373.99	1.85	373.99	0.30	373.99	27.01		20.69	373.99
COR10	334.59	1.79	334.59	0.37	334.59	26.71	334.59	22.31	334.59
COR11	346.84	1.89	346.84	0.30	346.84	25.60	346.84	23.45	346.84
COR12	200.19	1.66		0.20	200.19	25.05		9.36	200.19

Average	335.48	331.72	312.77	319.34
SD	24.20	59.54	38.18	59.40
RSD	0.07	0.18	0.12	0.19
1+RSD	1.1	**1.18**	1.1	1.2
1+2RSD	1.1	**1.36**	1.2	1.4
1+3RSD	1.2	**1.54**	1.4	1.6