Electronic Supplementary Material (ESI) for Biomaterials Science.
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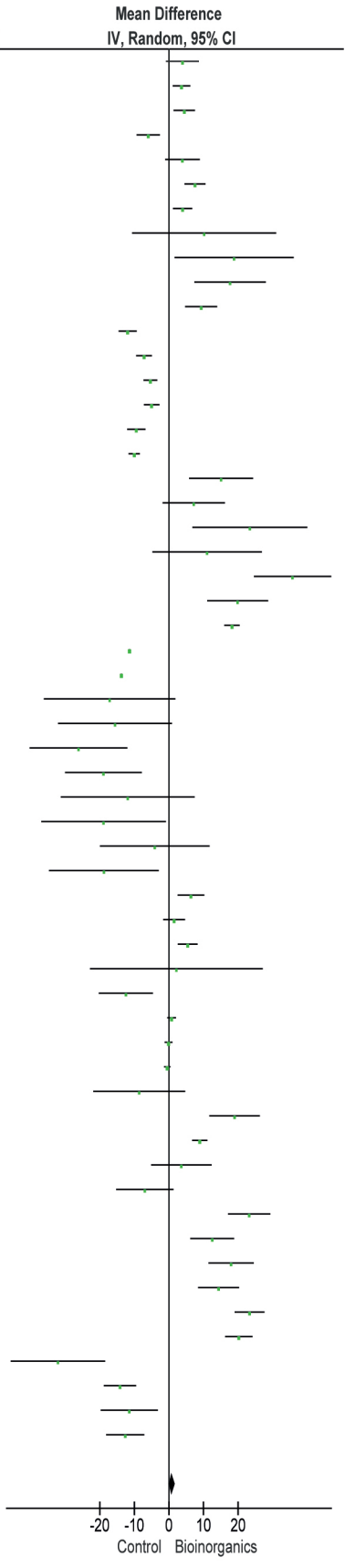
Study or Subgroup	Bioinorganics Mean	SD	Total	Control Mean	SD	Total	Weight	Mean Difference IV, Random, 95% CI
Calvo-Guirado2015-8w	47.54	2.1	7	43.62	5.8	7	1.8%	3.92 [-0.65, 8.49]
Calvo-Guirado2015a-12w	39.41	1.3	7	35.78	2.9	7	3.2%	3.63 [1.28, 5.98]
Carmo2018-1w	18.985	1.767	5	14.536	2.782	5	2.8%	4.45 [1.56, 7.34]
Carmo2018-6w	10.489	2.481	5	16.466	2.65	5	2.6%	-5.98 [-9.16, -2.80]
Cho2014	53.8	5.1	8	49.9	4.7	8	1.7%	3.90 [-0.91, 8.71]
Costa2016-1m	45.761	2.637	6	38.22	2.323	6	2.8%	7.54 [4.73, 10.35]
Costa2016-6m	38.914	2.386	6	34.958	2.135	6	3.0%	3.96 [1.39, 6.52]
Kamitakahara2016-4w	35.933	16.058	3	25.768	8.631	3	0.2%	10.16 [-10.46, 30.79]
Kamitakahara2016-8w	34.91	10.207	3	16.058	11.058	3	0.2%	18.85 [1.82, 35.88]
Kamitakahara2016a-12w	37.206	4.979	3	19.53	7.441	3	0.6%	17.68 [7.54, 27.81]
Kamitakahara2016a-24w	23.071	3.921	3	13.755	0.161	3	1.9%	9.32 [4.88, 13.76]
Ke2017-CaPSi-6w	41.509	2.037	8	53.449	1.985	4	3.1%	-11.94 [-14.34, -9.54]
Ke2017-CaPSia-12w	33.364	1.682	8	40.542	1.747	4	3.4%	-7.18 [-9.25, -5.11]
Ke2017-CaPSia-18w	25.345	1.778	8	30.712	1.359	4	3.5%	-5.37 [-7.18, -3.55]
Ke2017-SiCaP-6w	48.448	0.905	8	53.449	1.985	4	3.4%	-5.00 [-7.04, -2.96]
Ke2017-SiCaPa-12w	31.101	2.522	8	40.542	1.747	4	3.1%	-9.44 [-11.89, -6.99]
Ke2017-SiCaPa-18w	20.691	0.862	8	30.712	1.359	4	3.8%	-10.02 [-11.48, -8.56]
Liu2013-4w-Si50	71.157	8.18	6	56.076	5.532	3	0.7%	15.08 [6.02, 24.14]
Liu2013-4w-Si80	63.262	7.707	6	56.076	5.532	3	0.7%	7.19 [-1.60, 15.97]
Liu2013a-12w-Si50	63.94	8.952	6	40.549	13.05	3	0.2%	23.39 [6.98, 39.80]
Liu2013a-12w-Si80	51.583	6.43	6	40.549	13.05	3	0.3%	11.03 [-4.60, 26.67]
Liu2013a-26w-Si50	44.49	10.497	6	8.747	6.242	3	0.5%	35.74 [24.77, 46.72]
Liu2013a-26w-Si80	28.605	6.149	6	8.747	6.242	3	0.8%	19.86 [11.25, 28.47]
Machado2016	50.788	2.01	5	32.554	1.13	5	3.4%	18.23 [16.21, 20.26]
Mohan2013-4w	42.99	0.014	3	54.39	0.011	3	4.3%	-11.40 [-11.42, -11.38]
Mohan2013a-12w	32.46	0.018	3	46.19	0.03	3	4.3%	-13.73 [-13.77, -13.69]
Reitmaier2018-6w-SrUL	43.071	22.397	7	60.224	11.985	7	0.2%	-17.15 [-35.97, 1.66]
Reitmaier2018a-6w-SrL	44.719	17.303	7	60.299	13.558	7	0.2%	-15.58 [-31.86, 0.70]
Reitmaier2018b-26w-SrUL	36.923	15.826	7	63.077	10.183	7	0.3%	-26.15 [-40.10, -12.21]
Reitmaier2018c-26w-SrL	40.879	10.94	7	59.826	9.817	7	0.5%	-18.95 [-29.84, -8.06]
Rentsch2018-3m-Cr10	79.3	15.092	10	91.2	19.048	5	0.2%	-11.90 [-31.04, 7.24]
Rentsch2018-3m-Cr50	72.3	9.973	10	91.2	19.048	5	0.2%	-18.90 [-36.70, -1.10]
Rentsch2018-6m-Cr10	67.5	16.411	10	71.6	19.195	10	0.3%	-4.10 [-19.75, 11.55]
Rentsch2018-6m-Cr50	52.8	16.41	10	71.6	19.195	10	0.3%	-18.80 [-34.45, -3.15]
Resende2013-26w	19.212	3.637	5	12.848	2.03	5	2.3%	6.36 [2.71, 10.01]
Resende2013-52w	13.486	1.848	5	11.97	2.818	5	2.8%	1.52 [-1.44, 4.47]
Resende2013-78w	16.424	2.545	5	11	1.637	5	3.0%	5.42 [2.77, 8.08]
Suruagy2016	29.78	19.48	5	27.62	20.46	5	0.1%	2.16 [-22.60, 26.92]
Tao2018	40.103	5.511	5	52.551	6.735	5	0.9%	-12.45 [-20.08, -4.82]
Tian2009-4w	25.942	0.899	8	25.176	1.228	8	4.0%	0.77 [-0.29, 1.82]
Tian2009-6w	20.161	1.009	8	20.274	0.855	8	4.0%	-0.11 [-1.03, 0.80]
Tian2009a-16w	11.935	0.817	8	12.424	0.68	8	4.1%	-0.49 [-1.23, 0.25]
Tripathi2018-4w	46.66	10.8	4	55.26	7.84	4	0.4%	-8.60 [-21.68, 4.48]
Tripathi2018a-12w	30	6.5	4	11.02	3.2	4	1.0%	18.98 [11.88, 26.08]
Tripathi2018b-24w	10.01	2.05	4	1.09	0.06	4	3.4%	8.92 [6.91, 10.93]
Valiense2016-4w	18.36	9.365	6	14.788	5.159	6	0.8%	3.57 [-4.98, 12.13]
Valiense2016a-12w	10.37	6.323	6	17.328	7.857	6	0.8%	-6.96 [-15.03, 1.11]
Wang2012-4w-Si50	80.263	2.336	5	57.062	4.896	3	1.3%	23.20 [17.29, 29.11]
Wang2012-4w-Si80	69.567	3.013	5	57.062	4.896	3	1.3%	12.50 [6.37, 18.64]
Wang2012a-12w-Si50	47.672	3.918	5	29.693	4.721	3	1.2%	17.98 [11.63, 24.33]
Wang2012a-12w-Si80	44.056	2.294	5	29.693	4.721	3	1.4%	14.36 [8.65, 20.07]
Wang2012a-26w-Si50	33.259	3.616	5	9.954	2.31	3	2.1%	23.30 [19.20, 27.41]
Wang2012a-26w-Si80	30.17	3.088	5	9.954	2.31	3	2.3%	20.22 [16.45, 23.98]
Xu2008-4w	29.731	6.699	4	61.809	11.981	4	0.3%	-32.08 [-45.53, -18.63]
Xu2008-8w	17.734	2.086	4	31.883	4.059	4	1.9%	-14.15 [-18.62, -9.68]
Xu2008a-16w	15.289	1.926	4	26.748	8.02	4	0.8%	-11.46 [-19.54, -3.38]
Zeng2012-8w	30.36	3.33	6	42.99	5.76	6	1.5%	-12.63 [-17.95, -7.31]
Total (95% CI)			**340**			**276**	**100.0%**	**0.84 [0.01, 1.66]**

Heterogeneity: Tau² = 4.16; Chi² = 16477.17, df = 56 (P < 0.00001); I² = 100%
Test for overall effect: Z = 1.99 (P = 0.05)