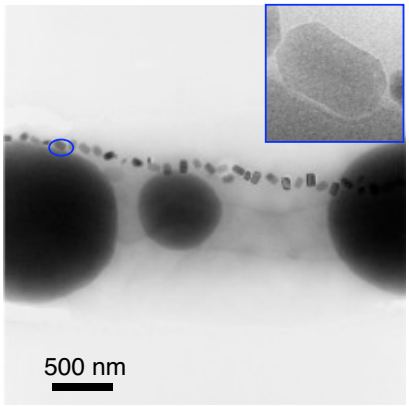


RS A

Cell morphology: Rod-shaped

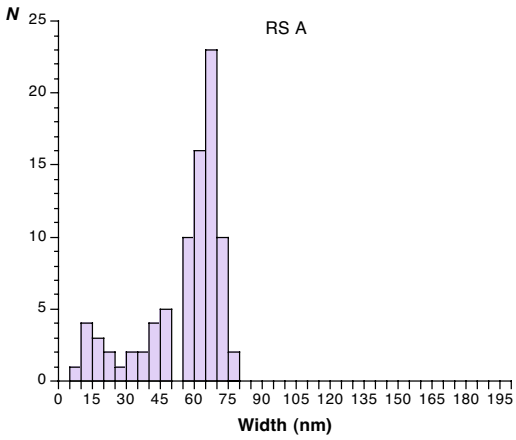
Cell size: ~ 4 × 2 μm

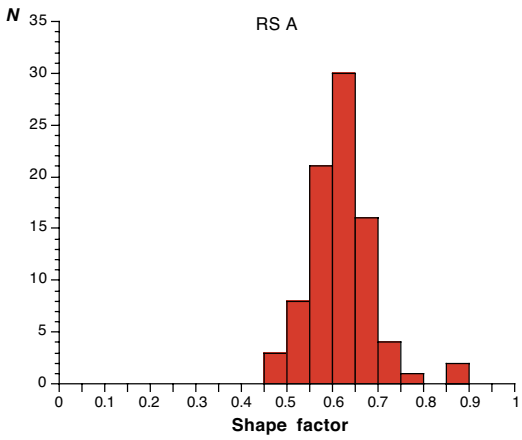
Number of magnetites chains: 1

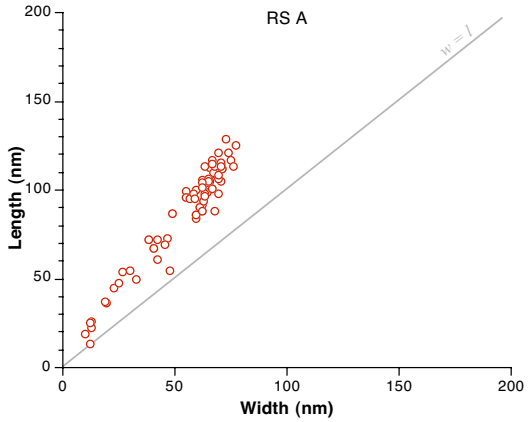
Number of crystals per cell: ~ 30 aligned irregularly

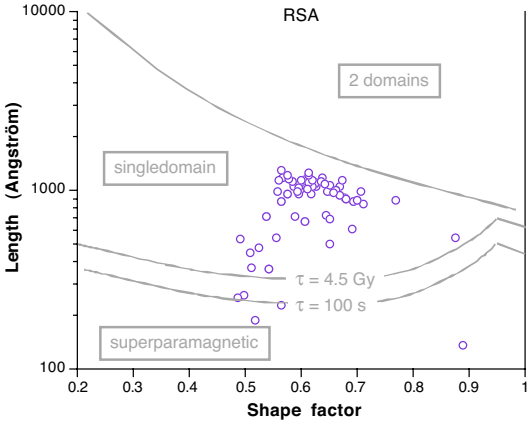
Crystal morphology: e-prismatic

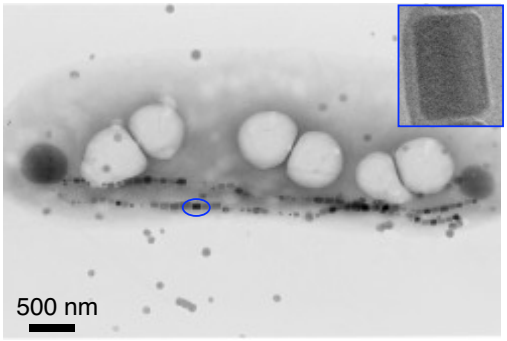
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22}m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
129	14	90 (27)	77	10	56 (18)	85	3.5 (2.0)	1.8 (1.0)	5.3 (3.0)











RS B

Cell morphology: Rod-shaped

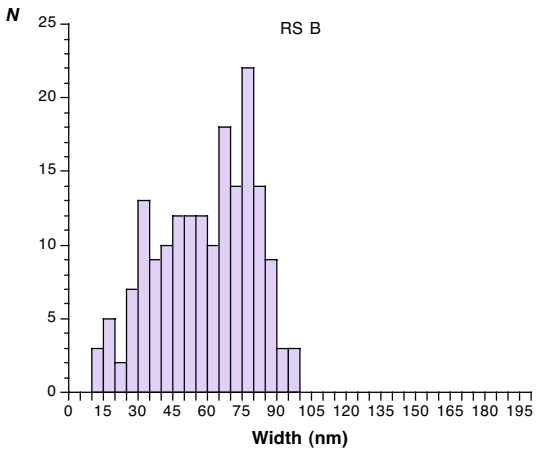
Cell size: ~ 6.5 × 2.5 µm

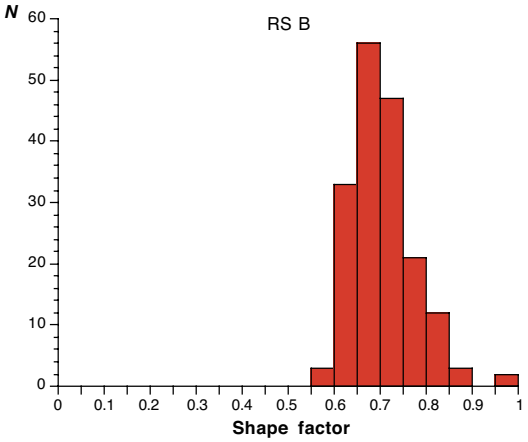
Number of magnetites chains: 2

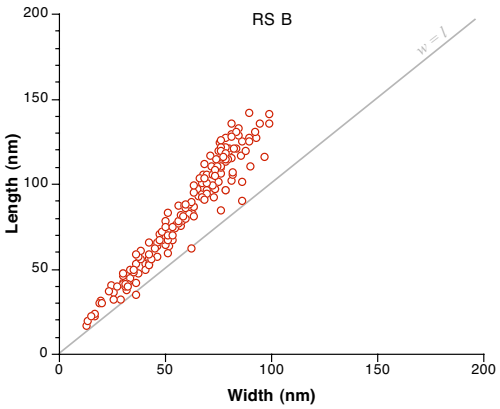
Number of crystals per cell: ~ 100

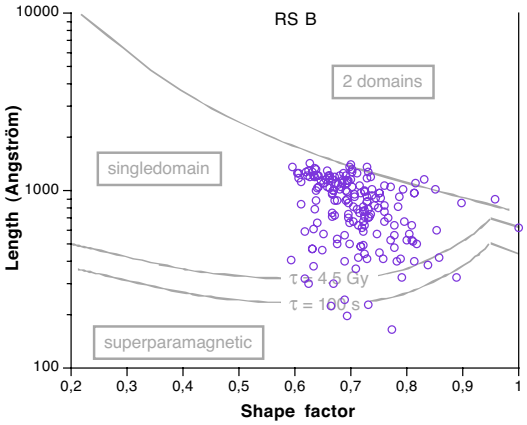
Crystal morphology: e-prismatic

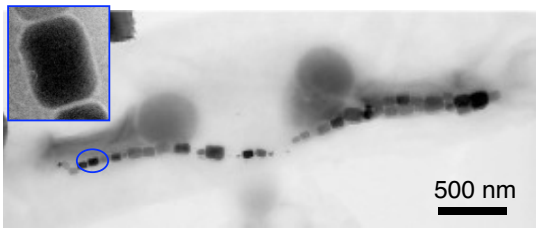
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
142	17	84 (31)	99	13	59 (21)	178	4.0 (3.2)	2.0 (1.6)	20.3 (16.5)











RS C

Cell morphology: Rod-shaped

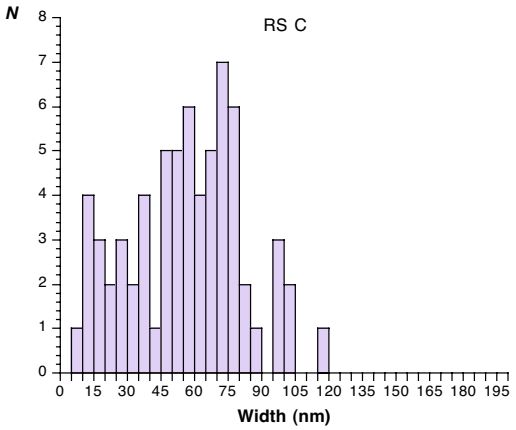
Cell size: ~ - × 1.5 µm

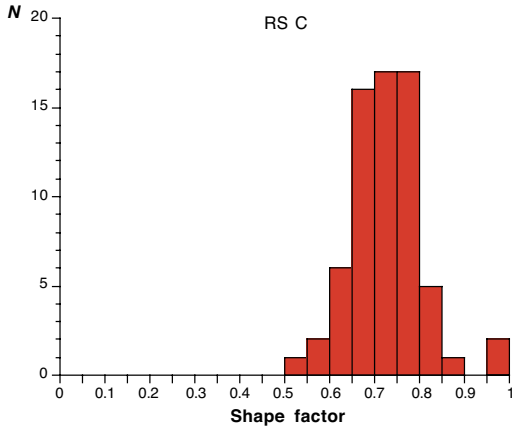
Number of magnetites chains: 1

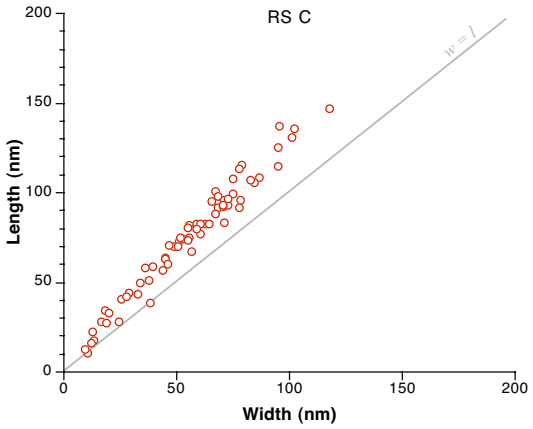
Number of crystals per cell: ~ 30

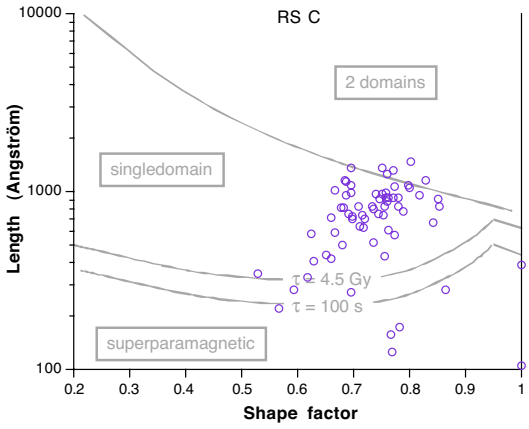
Crystal morphology: e-prismatic

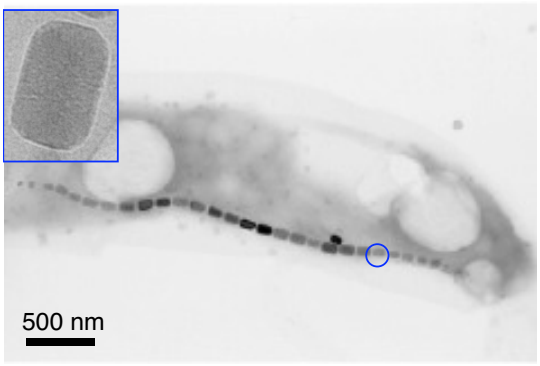
Size of crystals (nm)						N	V_{mean} ($.10^{-22}m^3$)	M ($.10^{-16}Am^2$) magnetic moment	n.M ($.10^{-15}Am^2$) magnetic moment per cell
l (length)			w (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
147	11	75 (32)	118	10	56 (25)	67	3.7 (4.0)	1.9 (2.0)	5.6 (6.0)











RS D

Cell morphology: Rod-shaped

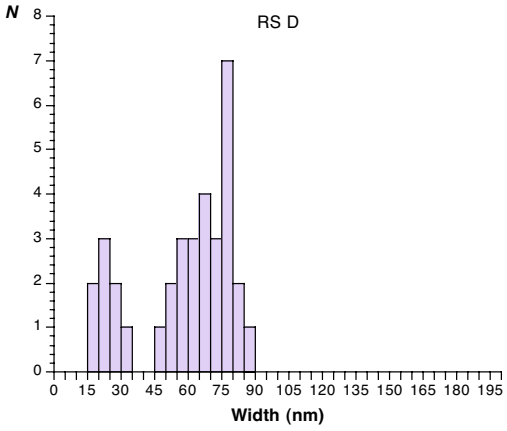
Cell size: ~ 4 × - µm

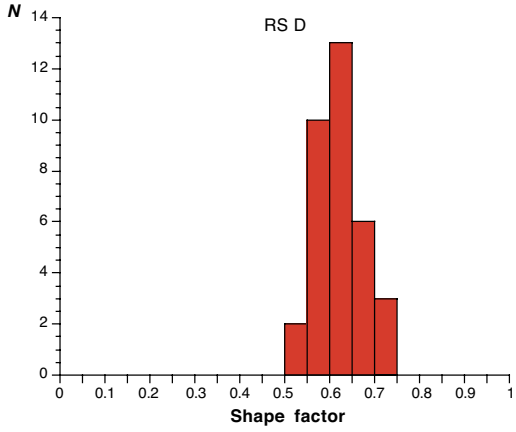
Number of magnetites chains: 1

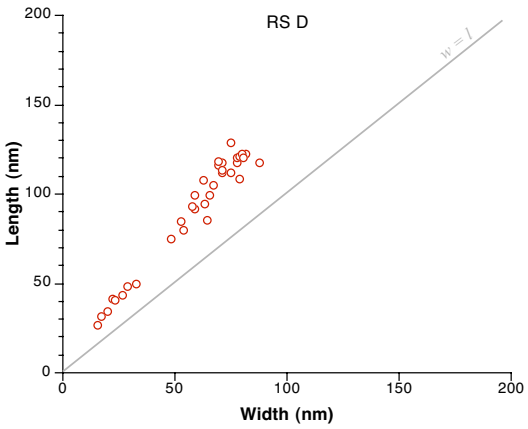
Number of crystals per cell: ~ 30

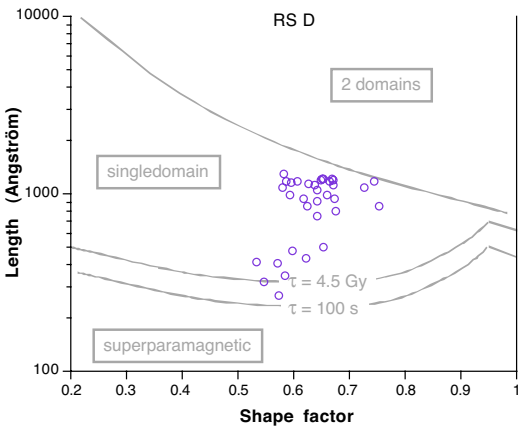
Crystal morphology: e-prismatic

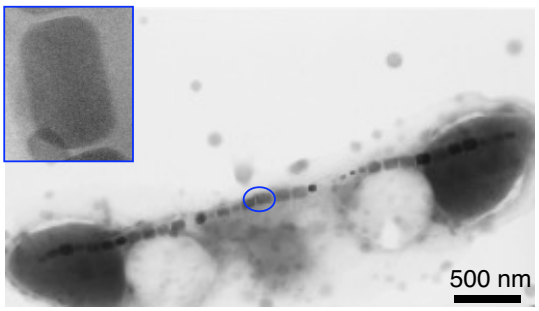
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
129	27	91 (32)	88	15	58 (22)	34	4.2 (2.8)	2.1 (1.4)	6.3 (4.3)











RS E

Cell morphology: Rod-shaped

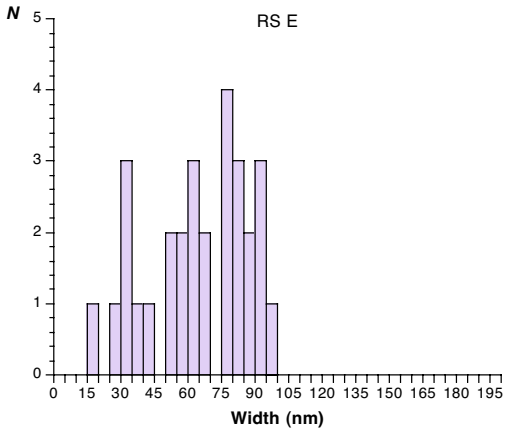
Cell size: ~ 4 × 1 μm

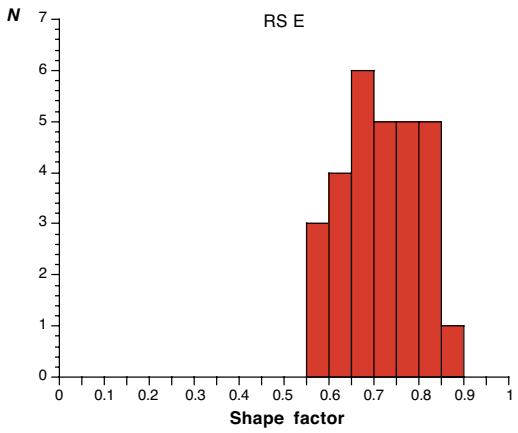
Number of magnetites chains: 1

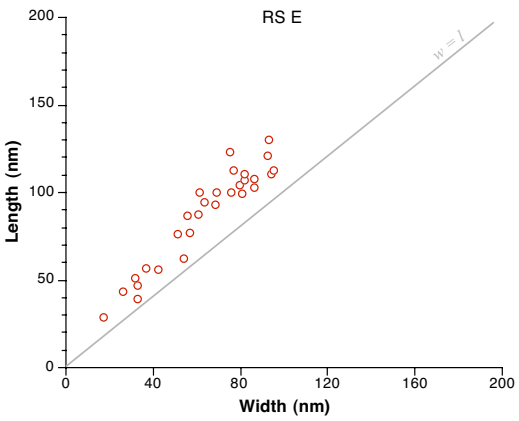
Number of crystals per cell: ~ 30

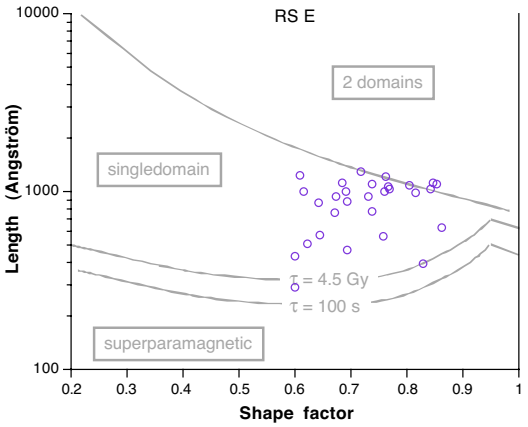
Crystal morphology: e-prismatic

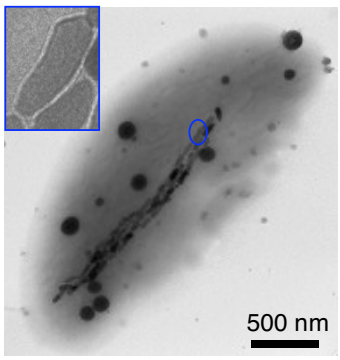
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22}m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
130	29	88 (28)	95	17	64 (23)	29	4.7 (3.5)	2.4 (1.7)	7.2 (5.2)











RS F

Cell morphology: Rod-shaped

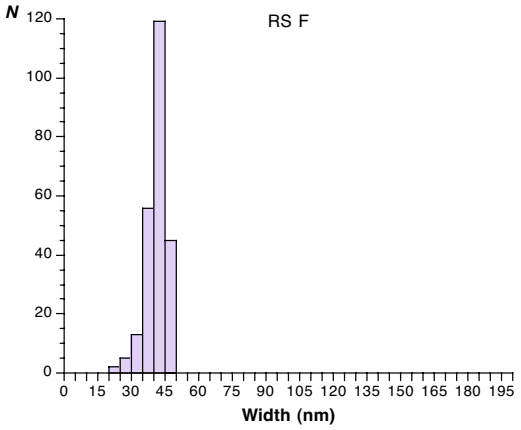
Cell size: ~ 3 × 1.5 µm

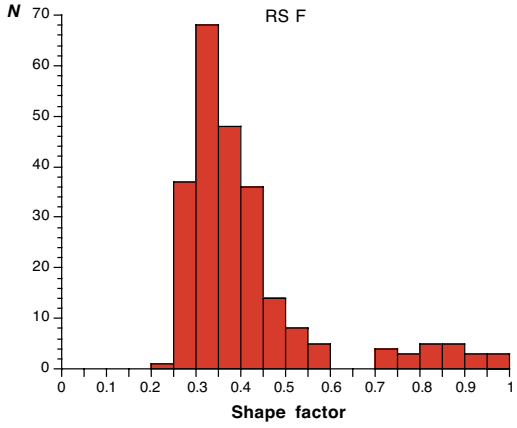
Number of magnetites chains: 1 multiple chain

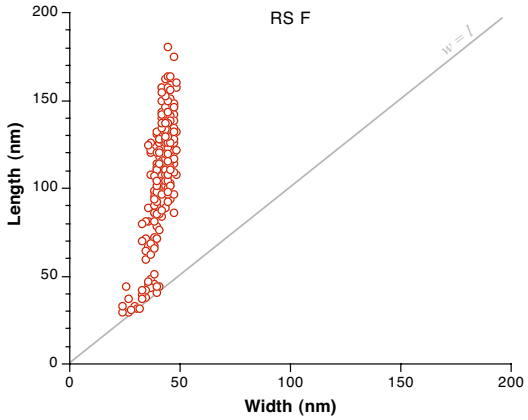
Number of crystals per cell: ~ 100

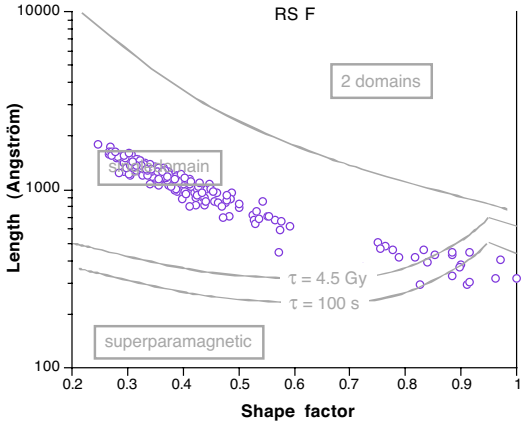
Crystal morphology: tooth-shaped

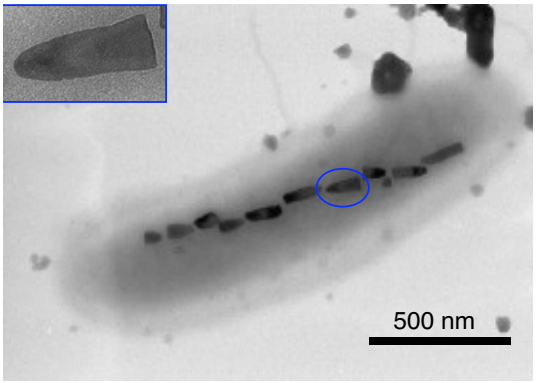
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22}m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
180	29	110 (33)	48	24	41 (4)	240	2.0 (0.8)	1.0 (0.4)	10.0 (4.1)











RS G

Cell morphology: Rod-shaped

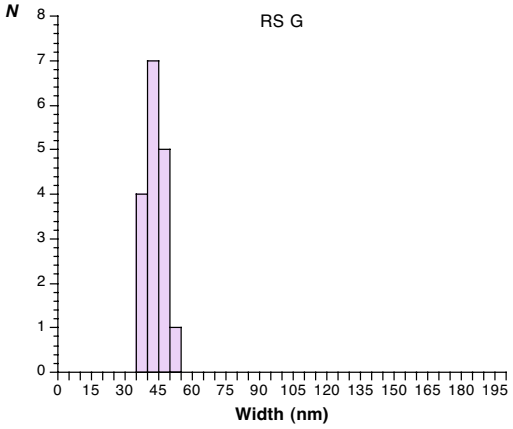
Cell size: ~ 1.5 × 0.5 µm

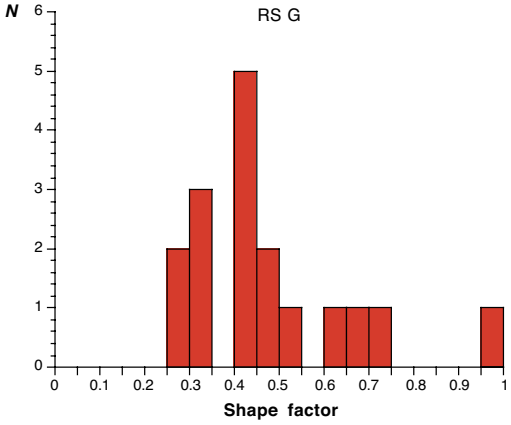
Number of magnetites chains: 1

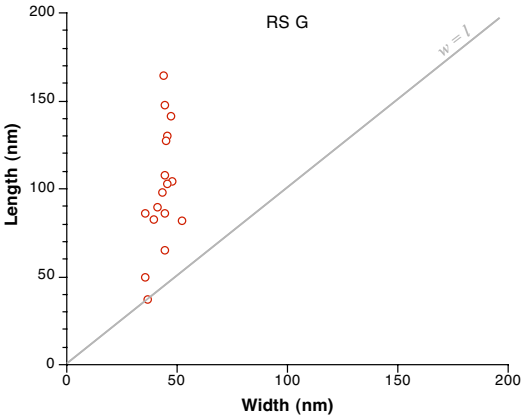
Number of crystals per cell: ~ 5 to 10

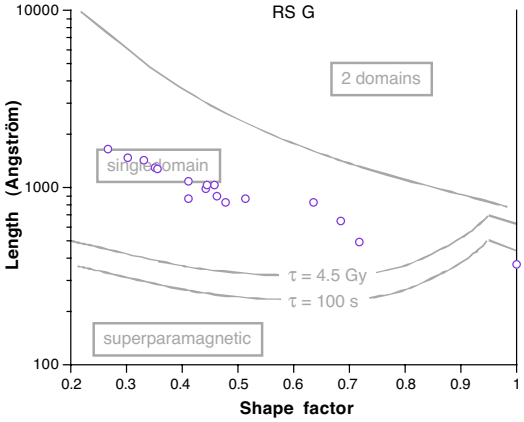
Crystal morphology: bullet-shaped

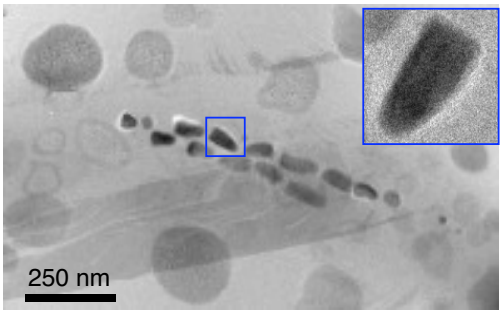
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	Min	Mean size (nm)				
165	37	100 (34)	52	37	43 (4)	17	2.0 (0.8)	1.0 (0.4)	1.0 (0.4)











RS H

Cell morphology: Rod-shaped

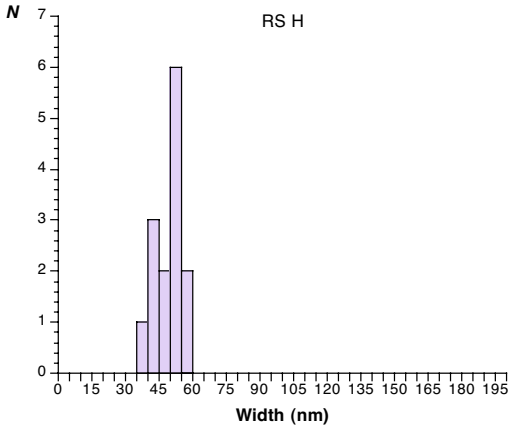
Cell size: ~ - × - µm

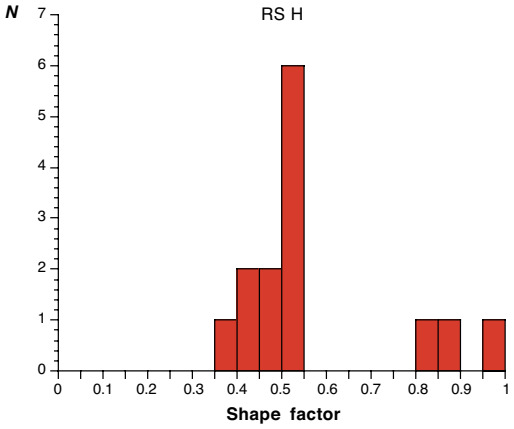
Number of magnetites chains: 1

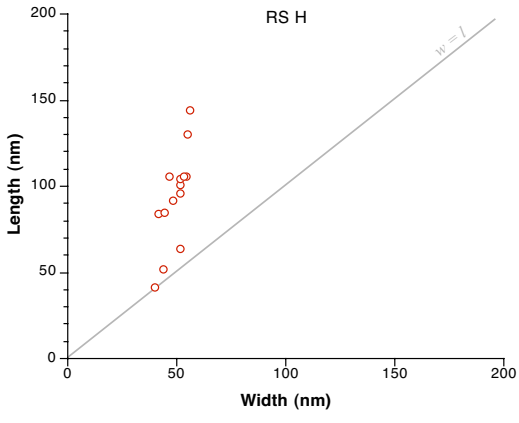
Number of crystals per cell: ~ 17

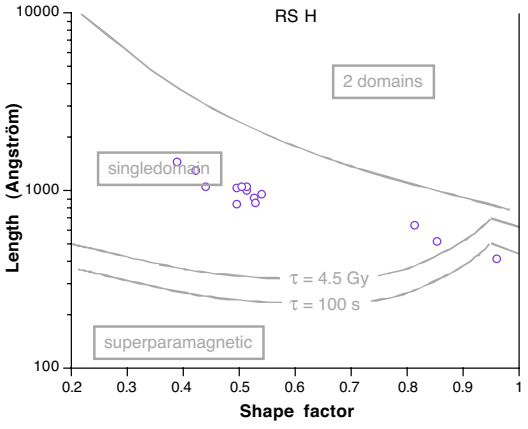
Crystal morphology: tooth-shaped

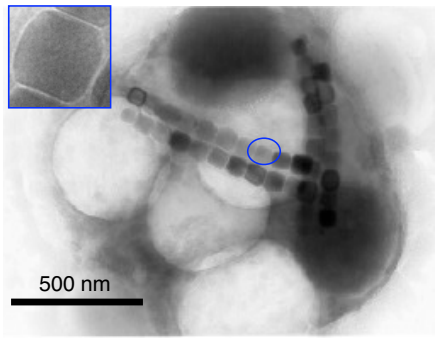
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
144	41	93 (28)	56	40	49 (5)	14	2.4 (1.0)	1.2 (0.5)	2.0 (0.9)











MC A

Cell morphology: coccus

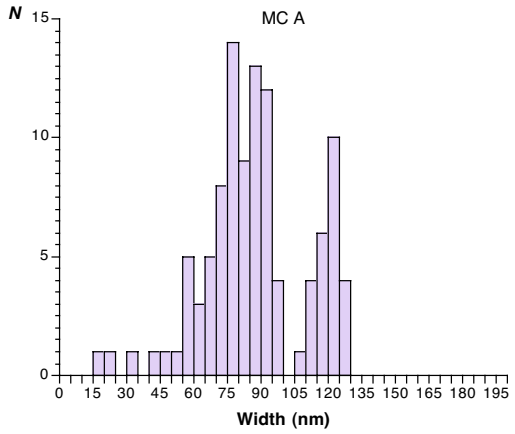
Cell size: ∅ ~ 2.5 µm

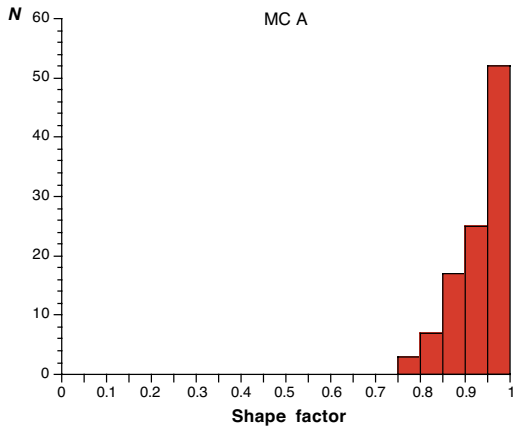
Number of magnetites chains: 1

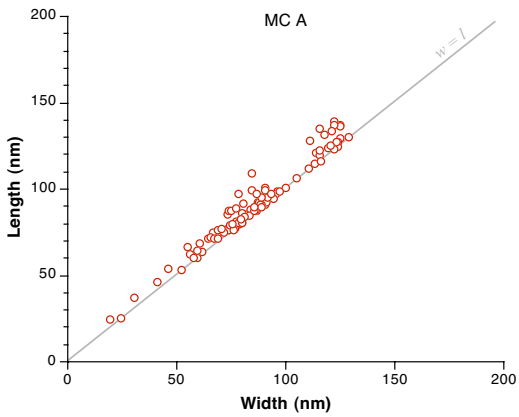
Number of crystals per cell: ~ 50

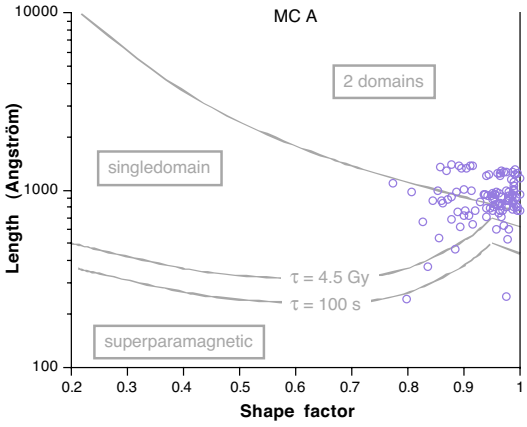
Crystal morphology: cubbic

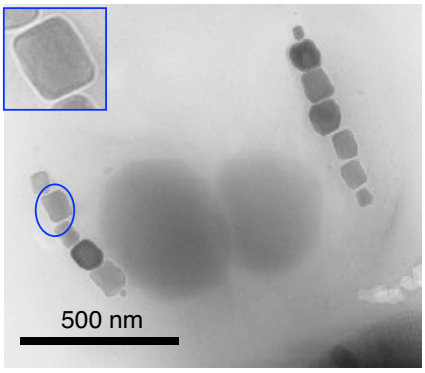
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
139	24	92 (24)	129	19	87 (23)	104	8.4 (6.0)	4.2 (3.0)	21.2 (15.0)











MC B

Cell morphology: coccus

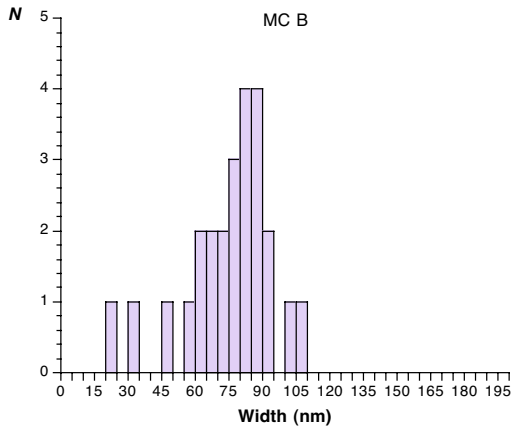
Cell size: ∅ ~ 1 to 2 µm

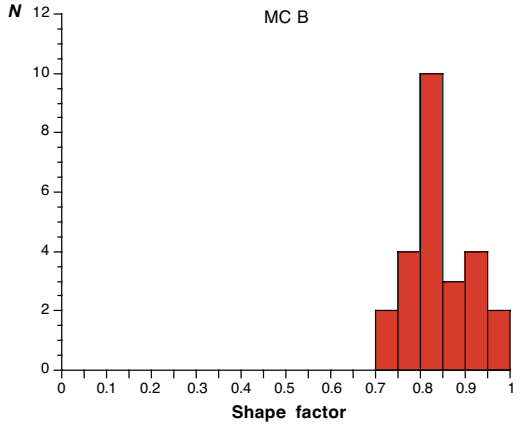
Number of magnetites chains: 2

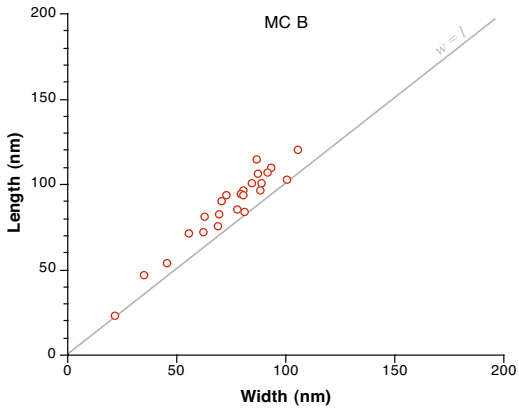
Number of crystals per cell: ~ 10

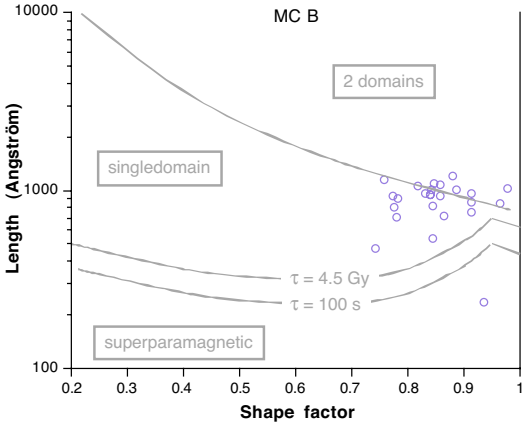
Crystal morphology: prismatic

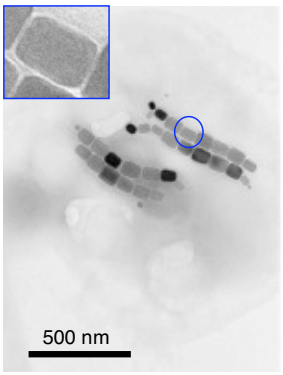
Size of crystals (nm)						N	V_{mean} ($.10^{-22} m^3$)	M ($.10^{-16}$ Am^2) magnetic moment	n.M ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			w (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
120	23	88 (22)	106	22	75 (20)	25	5.7 (3.2)	2.9 (1.6)	2.9 (1.6)











MC C

Cell morphology: coccus

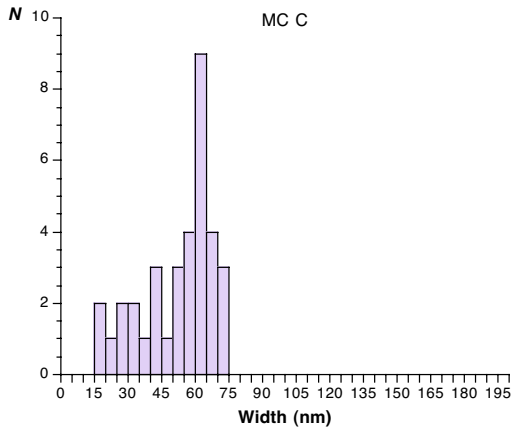
Cell size: ∅ ~ 1.5 µm

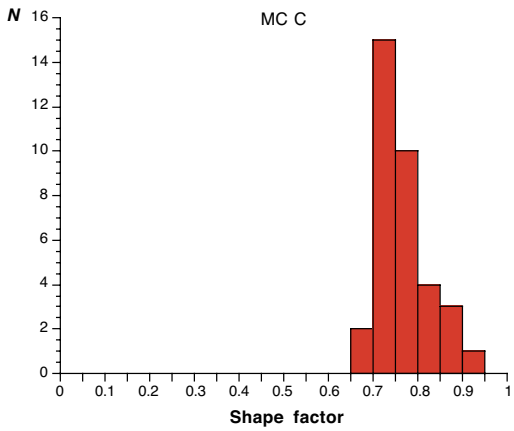
Number of magnetites chains: 4 (2 double chains)

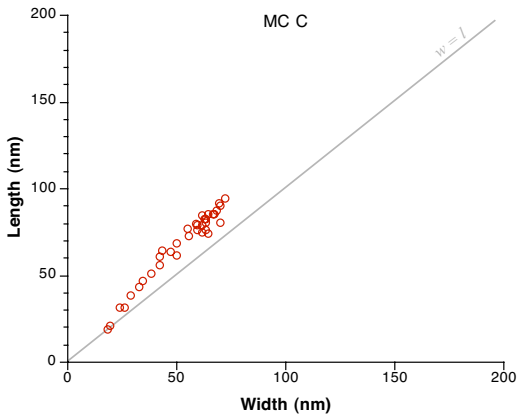
Number of crystals per cell: ~ 35

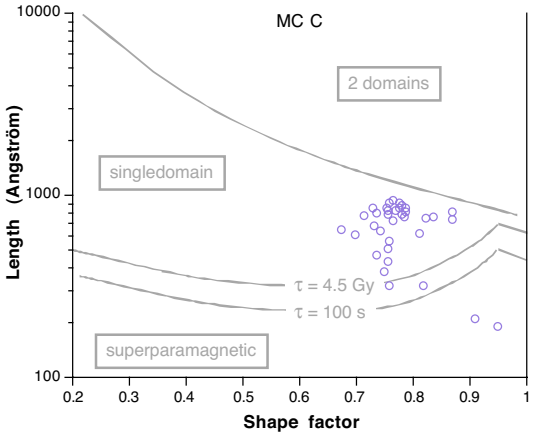
Crystal morphology: e-prismatic

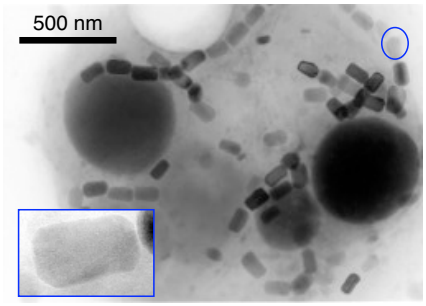
Size of crystals (nm)						N	V_{mean} ($.10^{-22}m^3$)	M ($.10^{-16}$ Am^2) magnetic moment	n.M ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			w (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
94	19	68 (21)	72	18	52 (16)	35	2.3 (1.4)	1.2 (0.7)	4.1 (2.6)











MC D

Cell morphology: coccus

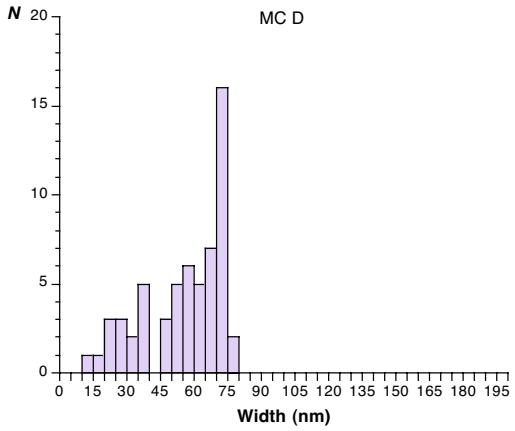
Cell size: ∅ ~ 1 to 4 µm

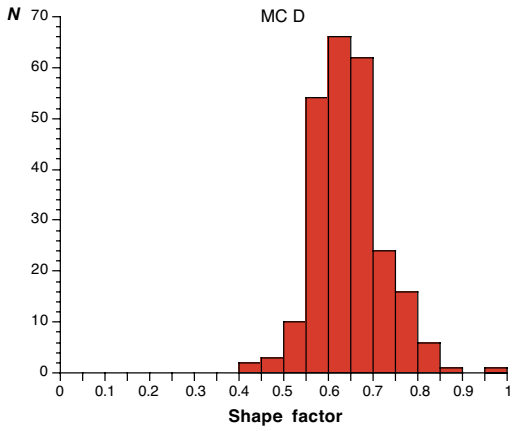
Number of magnetites chains: clusters or irregular chains

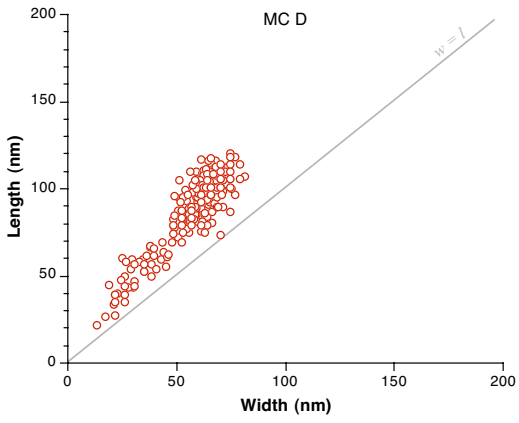
Number of crystals per cell: ~ 120

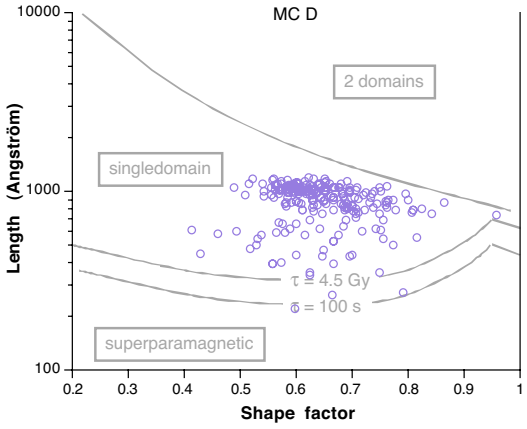
Crystal morphology: e-prismatic

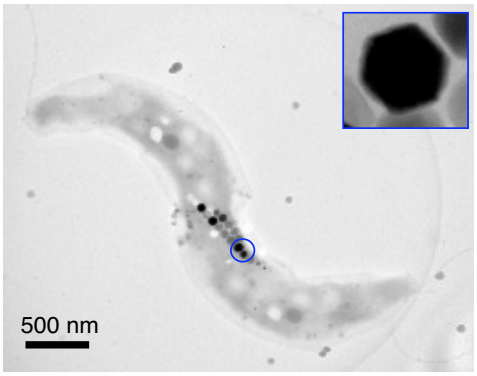
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22}m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
120	22	89 (21)	81	13	57 (14)	245	3.3 (1.6)	1.7 (0.8)	20.1 (10.0)











MS A

Cell morphology: spirillum

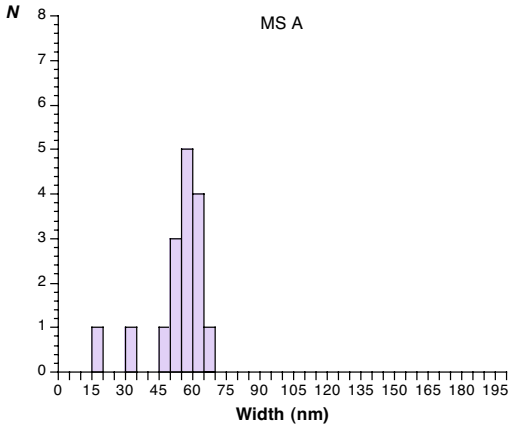
Cell size: ~ 3 × 0.5 µm

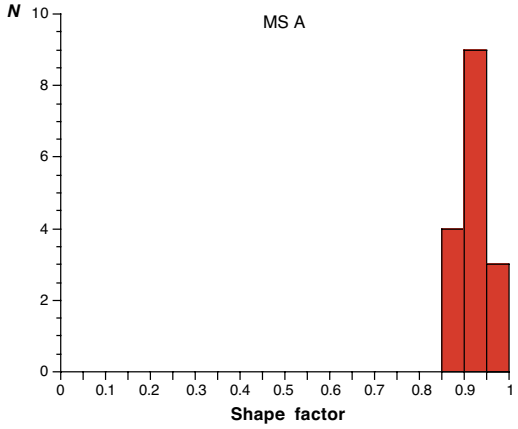
Number of magnetites chains: 1

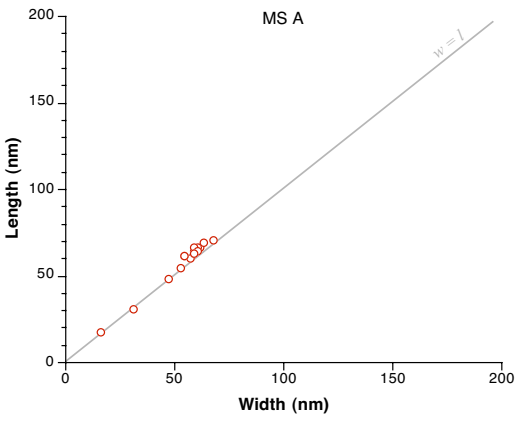
Number of crystals per cell: ~ 17

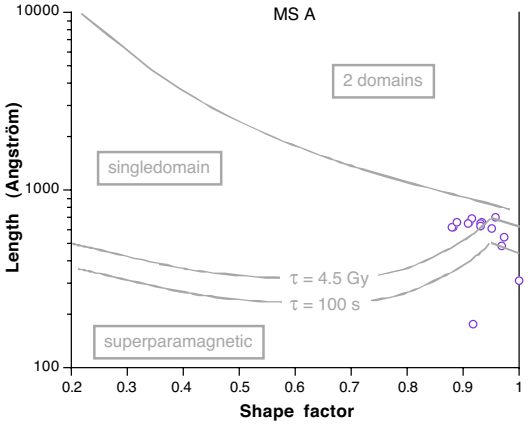
Crystal morphology: cuboctahedral

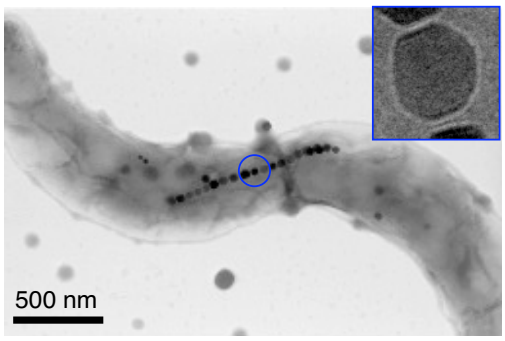
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
71	18	58 (14)	68	16	54 (13)	16	1.0 (0.5)	0.5 (0.2)	0.9 (0.4)











MS B

Cell morphology: spirillum

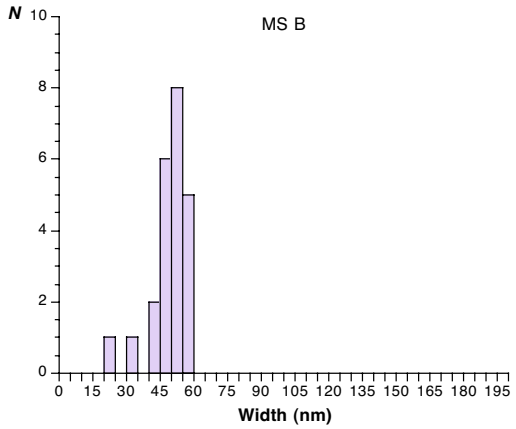
Cell size: ~ 3.5 × 0.5 µm

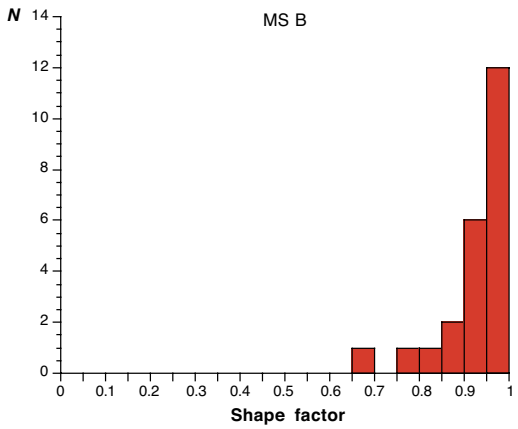
Number of magnetites chains: 1

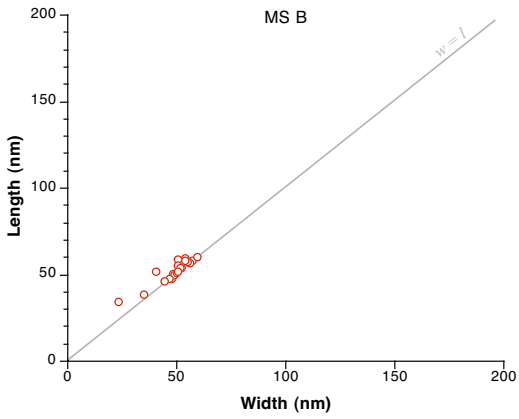
Number of crystals per cell: ~ 23

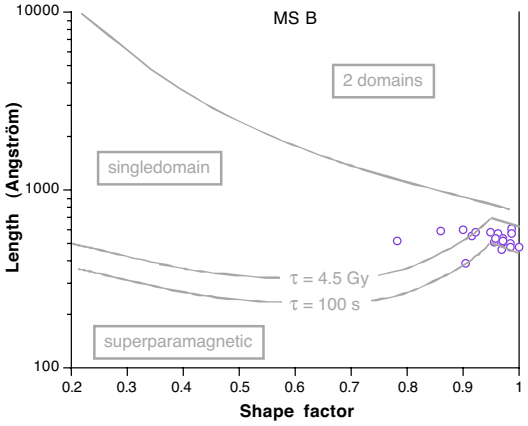
Crystal morphology: cuboctahedral

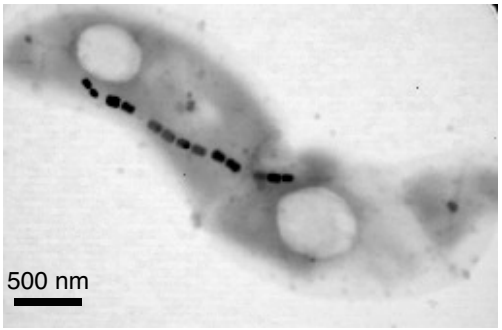
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am²) magnetic moment	*n.M* ($.10^{-15}$ Am²) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
61	34	52 (7)	60	23	49 (8)	23	0.7 (0.2)	0.4 (0.1)	0.8 (0.3)











MS C

Cell morphology: spirillum

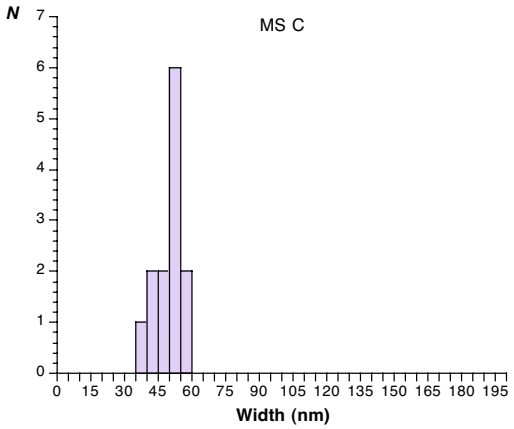
Cell size: ~ 3 × 0.5 µm

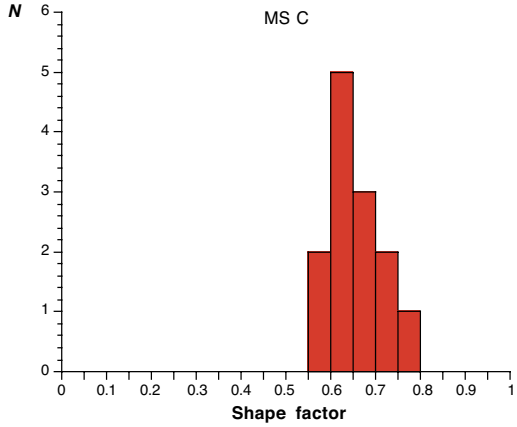
Number of magnetites chains: 1

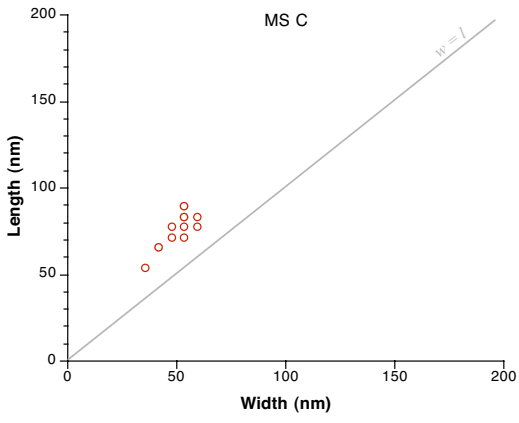
Number of crystals per cell: ~ 13

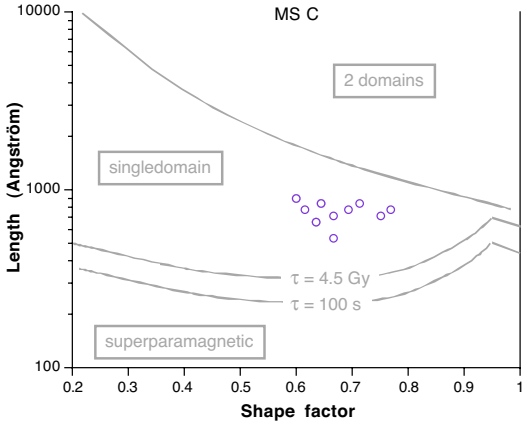
Crystal morphology: e-prismatic

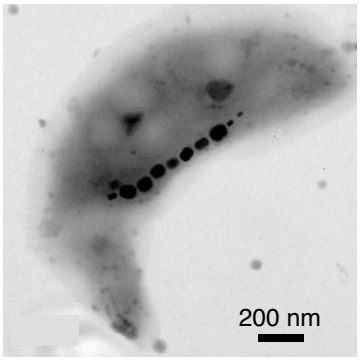
Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
89	54	76 (10)	60	36	50 (7)	13	2.0 (0.7)	1.0 (0.3)	1.0 (0.3)











MV A

Cell morphology: vibrio

Cell size: ~ 1.5 × 0.5 µm

Number of magnetites chains: 1

Number of crystals per cell: ~ 10

Crystal morphology: e-prismatic

Size of crystals (nm)						*N*	V_{mean} ($.10^{-22} m^3$)	*M* ($.10^{-16}$ Am^2) magnetic moment	*n.M* ($.10^{-15}$ Am^2) magnetic moment per cell
l (length)			*w* (width)						
max	min	Mean size (nm)	max	min	Mean size (nm)				
83	31	58 (18)	68	15	43 (19)	10	1.5 (1.2)	0.7 (0.6)	0.7 (0.6)