

Improved media formulations for primary cell cultures derived from a colonial urochordate

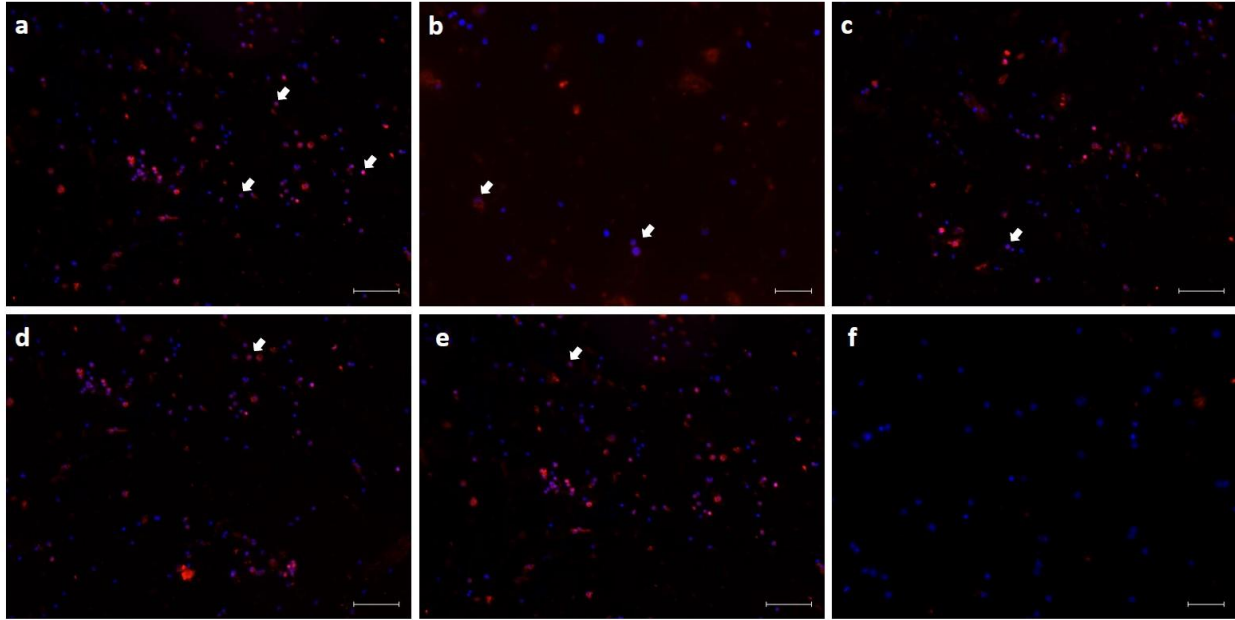


Figure S1. Immunofluorescence staining of *B. schlosseri* primary cultures under five media conditions at onset. a: TGM1. b: TGM2. c: TGM3. d: TGM4. e: TGM5. Blue dots are DAPI stained cell nuclei, red dots indicate PCNA⁺ stained nuclei and pink cells (some marked with arrows) indicating PCNA⁺ cells. f: negative control depict DAPI stained cell nuclei and unspecific staining of PCNA antibody. Scale bars: 20 μ m in b and f, 50 μ m in a, c, d and e.

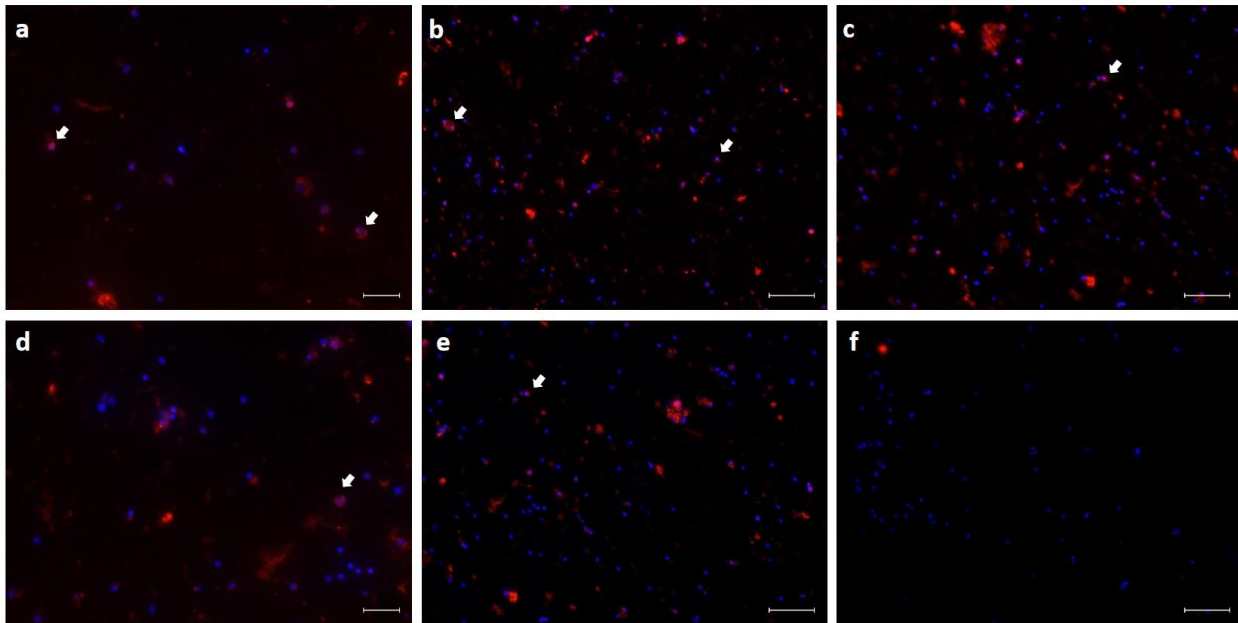


Figure S2. Immunofluorescence staining of *B. schlosseri* primary cultures under five media conditions at 24 h from initiation. a: TGM1. b: TGM2. c: TGM3. d: TGM4. e: TGM5. Blue dots are DAPI stained cell nuclei, red dots indicate PCNA⁺ stained nuclei and pink cells (some marked with arrows) indicating PCNA⁺ cells. f: negative control depict

DAPI stained cell nuclei and unspecific staining of PCNA antibody. Scale bars: 20 μm in a and d, 50 μm in b, c, e and f.

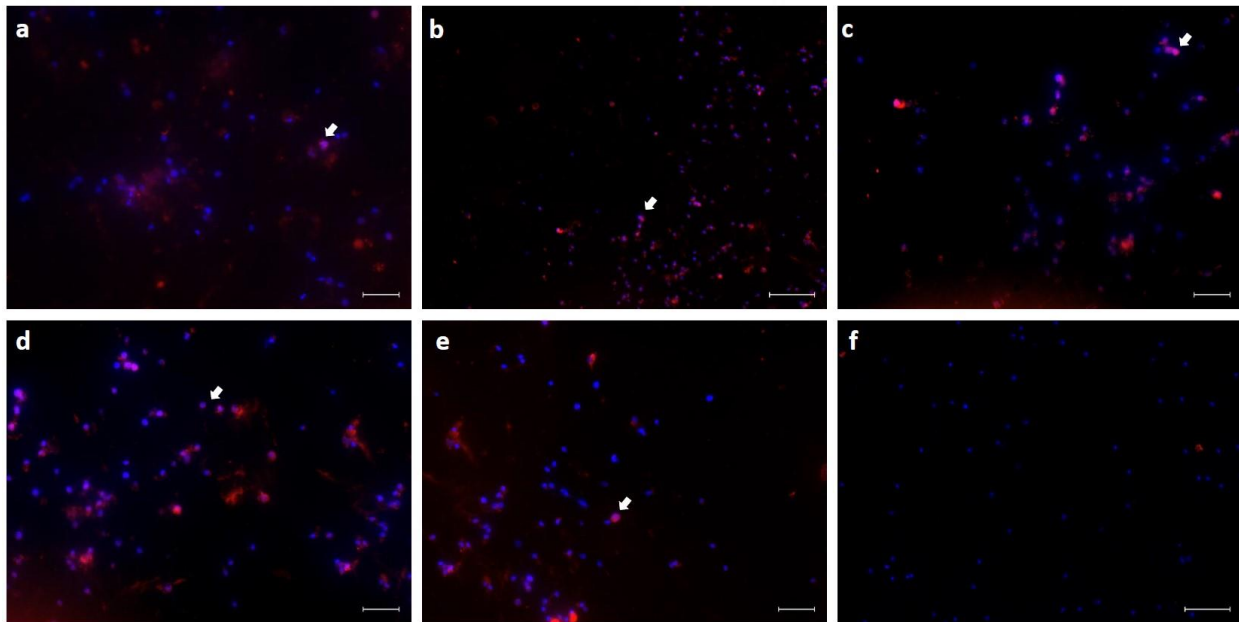


Figure S3. Immunofluorescence staining of *B. schlosseri* primary cultures under five media conditions at 3 days from initiation. a: TGM1. b: TGM2. c: TGM3. d: TGM4. e: TGM5. Blue dots are DAPI stained cell nuclei, red dots indicate PCNA⁺ stained nuclei and pink cells (some marked with arrows) indicating PCNA⁺ cells. f: negative control depict DAPI stained cell nuclei and unspecific staining of PCNA antibody. Scale bars: 20 μm in a, c, d and e, 50 μm in b and f.

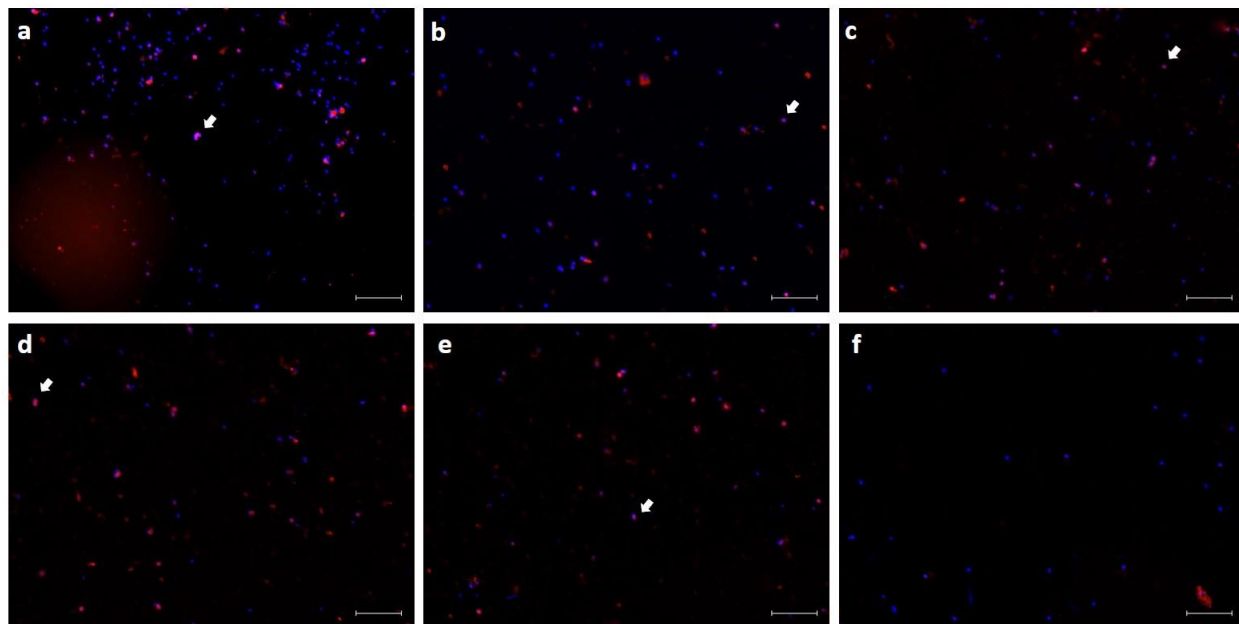


Figure S4. Immunofluorescence staining of *B. schlosseri* primary cultures under five media conditions at 8 days from initiation. a: TGM1. b: TGM2. c: TGM3. d: TGM4. e: TGM5. Blue dots are DAPI stained cell nuclei, red dots

indicate PCNA⁺ stained nuclei and pink cells (some marked with arrows) indicating PCNA⁺ cells. f: negative control depict DAPI stained cell nuclei and unspecific staining of PCNA antibody. Scale bars = 50 μ m.

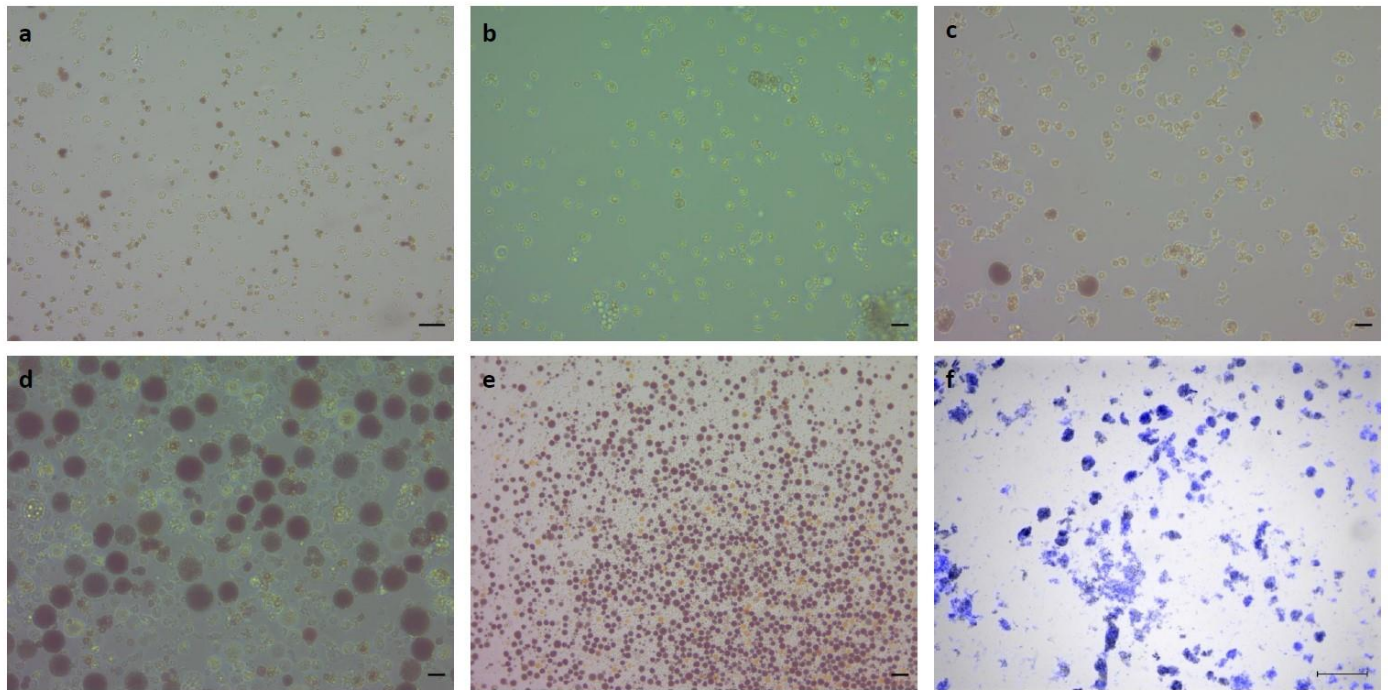


Figure S5. *B. schlosseri* primary blood cell cultures in medium TGM1: at onset (a), 24 h (b), days 3 (c), 8 (d) and 15 (e). f: fungi contamination at day 14 detected by calcofluor white staining. Scale bars: 10 μ m in b, c and d, 20 μ m in a, 80 μ m in e, 100 μ m in f.

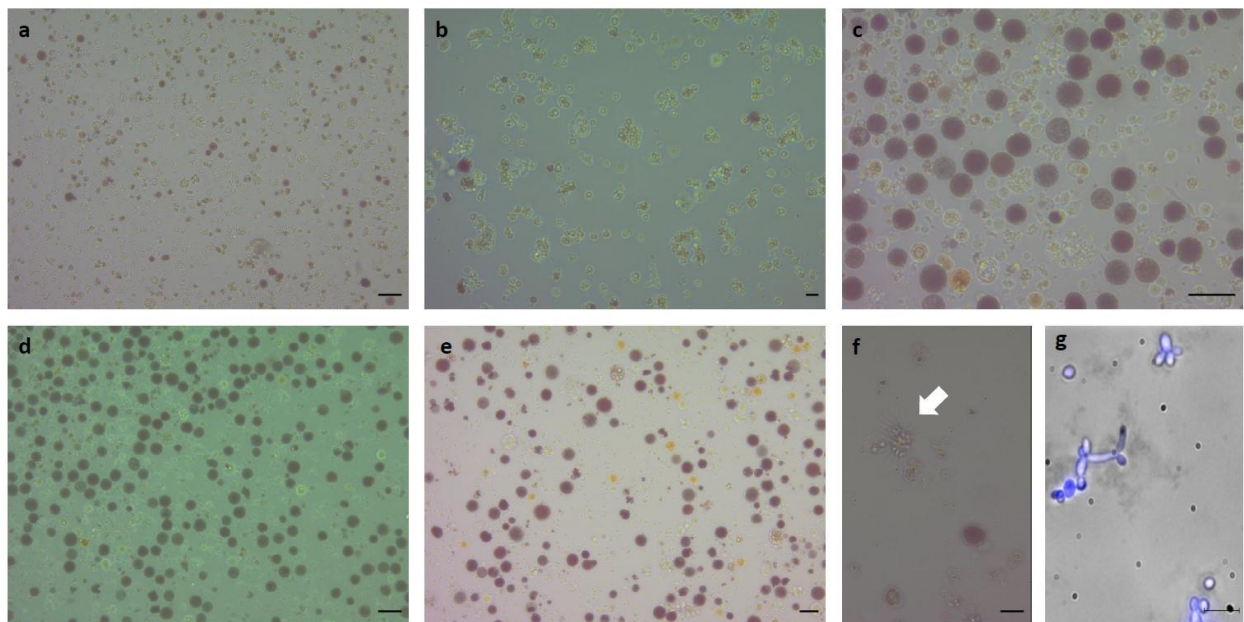


Figure S6. *B. schlosseri* primary blood cell cultures in medium TGM2: at onset (a), 24 h (b), days 3 (c), 8 (d) and 12 (e). Thraustochytrids contamination (arrow) at day 10 (f). g: yeast contamination at day 14 detected by calcofluor white staining. Scale bars: 10 μm in b, f and g, 20 μm in a and e, 40 μm in c and d.

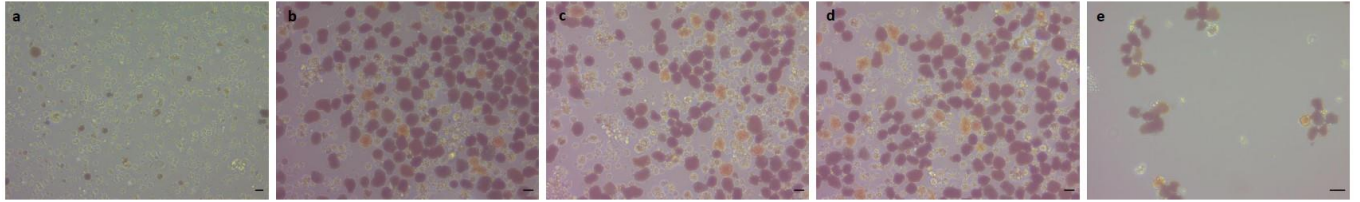


Figure S7. *B. schlosseri* primary blood cell cultures in medium TGM3: at onset (a), 24 h (b), days 3 (c), 8 (d) and 10 (e). Scale bars: 10 μm .

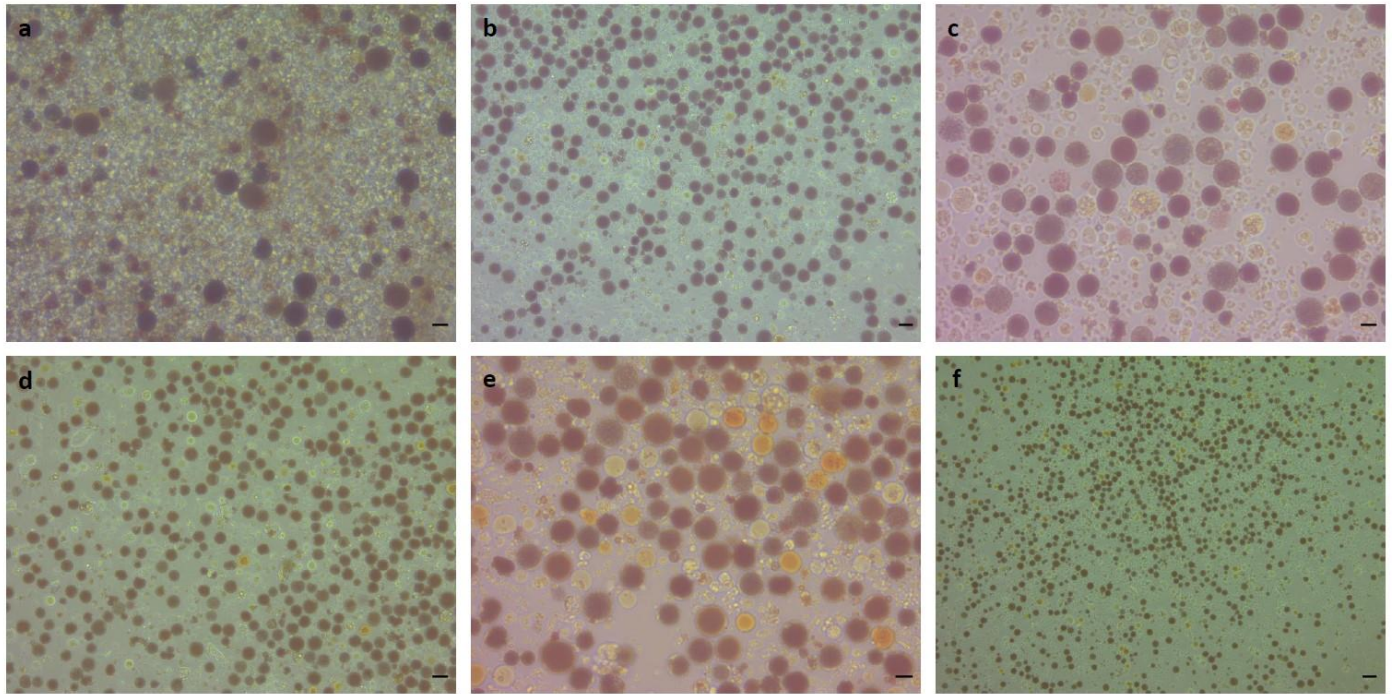


Figure S8. *B. schlosseri* primary blood cell cultures in medium TGM4: at onset (a), 24 h (b), days 3 (c), 8 (d), 17 (e) and 25 (f). Scale bars: 10 μm in b-d, 20 μm in a, e and f.

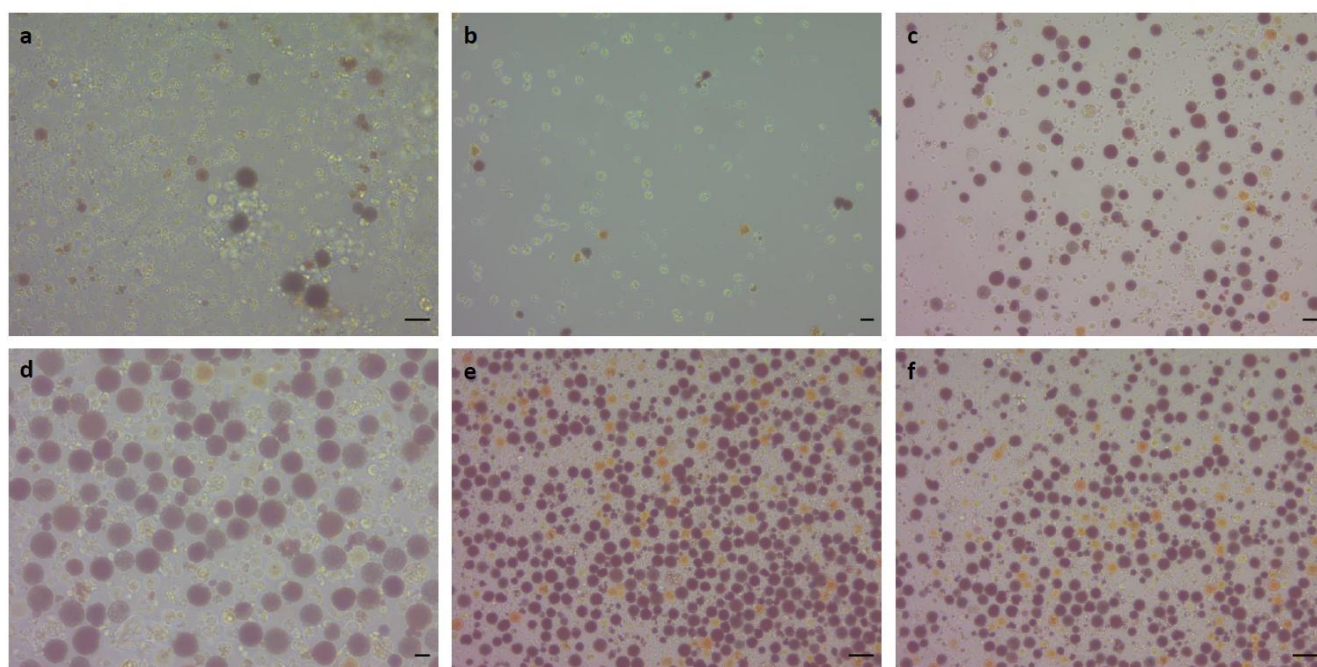


Figure S9. *B. schlosseri* primary blood cell cultures in medium TGM5: at onset (a), 24 h (b), days 3 (c), 8 (d), 17 (e) and 23 (f). Scale bars: 10 μ m in a-f, 20 μ m in f.

Table S1. Comparisons of media TGM1, TGM2, TGM3, TGM4 and TGM5 compositions. L-Glu - L-Glutamine, Hep - HEPES buffer, PSA - Penicillin Streptomycin Amphotericin b, Genta - Gentamicin, PS - Penicillin Streptomycin, SP - Sodium Pyruvate, FBS - Fetal Bovine Serum, DMEM - DMEM/F-12[HAM] 1:1 basal medium, RPMI - RPMI basal medium 1640, ASW - artificial sea water. +/- indicates the presence or absence of components in each medium.

Medium/Component	L-Glu	Hep	PSA	Genta	PS	SP	FBS	DMEM	RPMI	ASW
TGM1	+	+	-	-	+	+	+	+	-	-
TGM2	+	+	-	-	+	+	+	-	+	-
TGM3	+	+	+	+	-	+	+	-	-	+
TGM4	+	+	-	+	+	+	+	+	-	+
TGM5	+	+	-	-	+	+	+	+	-	+