

Additional information about stock tanks

All fish were housed in a large (approx. 46.8 m²) room without windows. The room temperature was centrally controlled at 24–27 °C (humidity 50–60%), so that the water temperature in tanks was 22–25 °C. To provide best water quality, water was first filtered by a reverse-osmosis system and then minerals (Preis Diskus Mineralien, Bayerfeld, Germany) were added to achieve a conductivity of 200 µS/cm. The tanks were illuminated by two rows of twelve 125 cm long fluorescent lightings including UV-range (60 Watt, LZ 58), 2–12 cm above the tanks, which provided a light-dark cycle of 14:10 h.

All fish were separated by species and population and housed in mixed-sex shoals in large stock tanks (80 cm × 35 cm × 40 cm, water level 35 cm). All tanks contained a 3 cm gravel layer on the ground and several plants like *Aponogeton* spec, *Vallisneria* spec and *Lemna minor*. Water was cleaned by a filter (Hydor, Prime 20, Bassano del Grappa, Italia) and an UV-lamp (Tetra tec UV 400, Melle, Germany) and was additionally aerated by an air stone. The pH of the water was 7–8 and the conductivity was 400–500 µS/cm. Twenty litres of each tank were changed weekly. Every second week a teaspoon of salt (Ursalz, Erntesegen, Radolfzell, Germany) and every six weeks a handful of mussel lime were added to each tank. All fish were fed twice a day with flake food (Novo Bel, JBL, Neuhofen, Germany), frozen chironomid larvae or frozen *Artemia* spec.

Table S3. Absolute Time (s) spent of males in mate-choice zones in front of stimulus females.

	1. Mate-Choice Test			2. Mate-Choice Test		
	Preferred Females	Non-Preferred Females	Wilcoxon Test	Preferred Females	Non-Preferred Females	Wilcoxon Test
<i>Male mate choice experiments</i>						
Focal males (N = 20)	760.5 s (651 s / 930.8 s)	199.5 s (64.5 s / 288.5 s)	Z = -3.921, P < 0.001	155.5 s (76.3 s / 311.8 s)	146 s (119 s / 391.5 s)	Z = -0.355, P = 0.723
Audience males (N = 20)	743 s (614.5 s / 888.3 s)	212 s (127.5 s / 297 s)	Z = -3.922, P < 0.001	545.5 s (398 s / 764.5 s)	275 s (151.5 s / 399.3 s)	Z = -1.469, P = 0.142
<i>Control 1 for mate-choice consistency in focal males</i>						
Focal males (N = 20)	7771.5 s (451.3 s / 922.3 s)	109 s (54.8 s / 245.8 s)	Z = -3.923, P < 0.001	506.5 s (229 s / 705.5 s)	338 s (78.8 s / 473.5 s)	Z = -1.980, P = 0.048
<i>Control 2 for mate-choice consistency in focal males when audience male inside an opaque cylinder</i>						
Focal males (N = 20)	680 s (606 s / 849.5 s)	229 s (166.8 s / 273 s)	Z = -3.923, P < 0.001	556 s (256.5 s / 612 s)	463 s (220.5 s / 599.8 s)	Z = -0.109, P = 0.913
Audience males (N = 20)	779.5 s (558.8 s / 963.8 s)	291.5 s (58.5 s / 397.3 s)	Z = -3.825, P < 0.001	622 s (550.5 s / 858.8 s)	285 s (163.5 s / 524 s)	Z = -2.913, P = 0.004

Table S4. Absolute Time (s) spent of females in mate-choice zones in front of stimulus males.

	1. Mate-Choice test			2. Mate-Choice test		
	Preferred Males	Non-Preferred Males	Wilcoxon Test	Preferred Males	Non-Preferred Males	Wilcoxon Test
<i>Female mate choice experiments</i>						
Focal females (N = 20)	732.5 s (572.3 s / 872.3 s)	239.5 s (105.8 s / 327.5 s)	Z = -3.921, P < 0.001	206.5 s (99.3 s / 504.8 s)	154 s (53.8 s / 259.3 s)	Z = -1.680, P = 0.093
Audience females (N = 20)	617.5 s (545.5 s / 714.8 s)	282 s (235 s / 339.8 s)	Z = -3.924, P < 0.001	520.5 s (306.8 s / 616.3 s)	421 s (215.5 s / 522.5 s)	Z = -1.450, P = 0.147
<i>Control 1 for mate-choice consistency in focal females</i>						
Focal females (N = 19)	620 s (436 s / 788 s)	277 s (155 s / 347 s)	Z = -3.824, P < 0.001	706 s (487 s / 703 s)	232 s (109 s / 399 s)	Z = -3.293, P < 0.001
<i>Control 2 for mate-choice consistency in focal females when audience inside an opaque cylinder</i>						
Focal females (N = 20)	595 s (480.5 s / 773.5 s)	323.5 s (239.5 s / 407.3 s)	Z = -3.923, P < 0.001	575 s (392.3 s / 870.5 s)	293 s (150.5 s / 558 s)	Z = -2.570, P = 0.010
Audience females (N = 20)	769.5 s (596.3 s / 874 s)	185.5 s (114.3 s / 295.8 s)	Z = -3.921, P < 0.001	580 s (473.8 s / 666.8 s)	311.5 s (200.3 s / 608 s)	Z = -2.256, P = 0.024



Figure S1. Red food coloring diffused at the bottom out of the cylinder and spread through the water of the large tank.