

Tables

^a antibodies used were anti-O³ monoclonal antibody, Oma, which inhibit the mating reactivity of O mating-type cells of syngen 3 (O³). Whole cells were solubilized with the SM1200 solution and centrifuged at 10,000 *g* for 15 min. The supernatants were used as the samples of each strain.

^b the antigens were detected as dot-blot signals (see Materials and Methods). "+" indicates that the antigen was detected, "±" indicates that a weak signal was detected, and "-" indicates that no antigen was detected.

^c KU is the immature progeny of Ugy144 (O³) and Kyk5-2 (E³).

Table 1. Detection of antigen with OmA in odd (O) and even (E) strains among 7 syngens of *Paramecium caudatum*^a

Strain	Mating type	Detection of antigen in whole cell ^b
N149-3	O ¹	+
N93-033	E ¹	+
Bky13	O ³	+
G3	O ³	+
Kyc-2	O ³	+
Ugy144	O ³	
C103s7	E ³	+
16BC	E ³	
KU ^c	Immature	-
N93-027	O ⁴	-
Hot1	E ⁴	-
YD5	O ⁵	+
YD6	E ⁵	+
BD-4	O ⁶	-
Yr-1	E ⁶	-
Yo3-1	O ¹²	-
Yo16	E ¹²	-
GT702	O ¹³	±
GT802	E ¹³	±

Table 2. Antigen detection in E cells is correlated with the inhibiting effect on mating reactivity of O cells of same syngens in *P. caudatum*

Mating type	Inhibiting effect on mating reactivity	Detection of antigen in whole cell
O ¹	+	+
E ¹	-	+
O ³	+	+
E ³	-	+
immature	-	-
O ⁴	-	-
E ⁴	-	-
O ⁵	+	+
E ⁵	-	+
O ⁶	-	-
E ⁶	-	-
O ¹²	-	-
E ¹²	-	-
O ¹³	±	±
E ¹³	-	±

Table. 3. Inhibition of the mating reactivity in *Paramecium caudatum*, syngen 3, by monoclonal antibody XomO.

Dilution (1/X)	XomO		myeloma	
	O ³	E ³	O ³	E ³
4	-	-	+	+
8	-	-	+	+
16	-	±	+	+
32	±	+	+	+
64	+	+	+	+
128	+	+	+	+

Cells of O³ (Bky13) and E³ (C103s7) were incubated for 10 min in diluted supernatant of the hybridoma culture containing the antibody XomO, and then tester cells of the complementary mating types were added. "-" indicates no mating reaction; weak mating reaction and strong mating reaction are indicated by "±" and "+" respectively. The mark of "-", ±, and "+" in every point indicates the results of three independent experiments. The supernatant of myeloma culture and its dilution series were used as controls.

Cells of each strain were incubated for 10 min in diluted supernatant of the hybridoma culture containing the antibody XomO, and then tester cells of the complementary mating types were added. "-" indicates no inhibiting effect. "+" indicates that inhibiting effect was observed. The mark of "-", and "+" indicates the results of three independent experiments. The supernatant of myeloma culture was used as a control.

Table 4. Inhibiting effect on mating reactivity by monoclonal antibody XomO among 5 syngens of *P. caudatum*.

Strain	Mating type	Inhibiting effect on mating reactivity
N149-3	O ¹	-
N99-033	E ¹	-
Bky13	O ³	+
G3	O ³	+
C103s7	E ³	+
16BC	E ³	+
KU	immature	-
YD5	O ⁵	-
YD6	E ⁵	-
BD4	O ⁶	-
Yr-1	E ⁶	-
Yo3-1	O ¹²	-
Yo16	E ¹²	-