

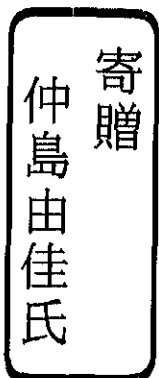
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**Study on the Role of Microtubules Related to the  
Nuclear Behaviors during Conjugation of  
*Paramecium caudatum***

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A dissertation submitted to the Doctoral Program  
in Biological Sciences, the University of Tsukuba  
in partial fulfillment of the requirements  
for the degree of Doctor of Philosophy in Science

January 2002



02304247

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## Abbreviations

|          |  |
|----------|--|
| BCIP/NTB | 5-bromo-4-chloro-3-indolyl-phosphate/nitroblue tetrazolium   |
| BSA      | bovine serum albumin   |
| DTT      | (±)-dithiothreitol   |
| EDTA     | ethylene diaminetetraacetic acid   |
| EGTA     | ethylene glycol-bis (β -aminoethyl ether)-N, N'-tetraacetic acid                                       |
| FITC     | fluorescein isothiocyanate   |
| GST      | glutathione S-transferase  |
| HEPES    | {2- [4-(2-hydroxyethyl)-1-piperazinyl] ethanesulfonic acid}  |
| IPTG     | isopropyl-β -D thiogalactopyranoside   |
| K-DS     | Dryl's solution modified by the substitution of $\text{KH}_2\text{PO}_4$ for $\text{NaH}_2\text{PO}_4$ |
| MTOC     | microtubule organizing center  |
| PB       | sodium phosphate-buffer  |
| PBS      | potassium phosphate-buffer saline  |
| Pcg 3    | guinea pig anti- <i>Paramecium caudatum</i> γ -tubulin antibody 3                                      |
| PCR      | polymerase chain reaction  |
| PI       | propidium iodide   |
| PIPES    | piperazine-1, 4-bis (2-ethanesulfonic acid)  |
| PVDF     | polyvinylidene fluoride  |
| SDS-PAGE | sodium dodecyl sulfate-polyacrylamide gel  |
| SPB      | spindle pole body  |
| Tris     | 2-amino-2-hydroxymethyl-1, 3-propanediol   |