Supplementary Table 1. Characteristics of patients whose fimbria region of the fallopian tube was examined.

Characteristic	Benign n=39	NoSTIC n=13	STIC n=25	P value		
				NoSTIC *vs.* Benign	STIC *vs.* Benign	STIC *vs.* NoSTIC
Age in years						
Median (range)	56 (46-87)	65 (37-82)	58 (46-91）	NS [a]	NS [a]	NS [a]
Menopause						
Premenopausal	9 (23.1%)	2 (15.4%)	0 (0%)	NS [b]	0.009 [b]	NS [b]
Postmenopausal	30 (76.9%)	11 (84.6%)	25 (100%)			
Chemotherapy						
Unknown	3 (7.7%)	6 (46.2%)	3 (12%)			
No	34 (87.2%)	3 (23.1%)	15 (60%)	<0.0001 [b]	0.021 [b]	0.045 [b]
Yes	2 (5.1%)	4 (30.7%)	7 (28%)			
BRCA Mutation						
Not tested	5 (12.8%)	7 (53.8%)	5 (20%)			
Negative	8 (20.5%)	4 (30.8%)	7 (28%)	0.002 [b]	NS [b]	0.046 [b]
Positive	26 (66.7%)	2 (15.4%)	13 (52%)			

Statistical tests were performed with a Kruskal-Wallis test[a] or a Fisher's Exact Test[b]. Values are considered significant if $P<0.05$. Age is expressed as a median (interquartile range). Menopause, chemotherapy, and BRCA mutations were expressed as percentiles.

Benign: Normal fallopian tubes from prophylactic surgeries or benign conditions from women without STIC or cancer.

NoSTIC: Fallopian tubes from women who have ovarian cancer but the examined fallopian tubes do not contain transformed cells.

STIC: Fallopian tubes with STIC lesions from women who have ovarian cancer. NS, not significant.

Supplementary Table 2. Characteristics of patients whose ampulla region of the fallopian tube was examined.

Characteristic	Benign n=15	NoSTIC n=13	STIC n=13	P value NoSTIC *vs.* Benign	P value STIC *vs.* Benign	P value STIC *vs.* NoSTIC
Age in years						
Median (range)	63 (48-87)	64 (37-82)	64 (51-75）	NS [a]	NS [a]	NS [a]
Menopause						
Premenopausal	0 (0%)	3 (23.1%)	0 (0%)	NS [b]	NS [b]	NS [b]
Postmenopausal	15 (100%)	10 (76.9%)	13 (100%)			
Chemotherapy						
Unknown	3 (20%)	8 (61.5%)	3 (23.1%)			
No	12 (80%)	2 (15.4%)	6 (46.2%)	0.001 [b]	NS [b]	NS [b]
Yes	0 (0%)	3 (23.1%)	4 (30.7%)			
BRCA Mutation						
Not tested	4 (26.7%)	8 (61.5%)	4 (30.8%)			
Negative	4 (26.7%)	3 (23.1%)	5 (38.4%)	NS [b]	NS [b]	NS [b]
Positive	7 (46.6%)	2 (15.4%)	4 (30.8%)			

Statistical tests were performed with a Kruskal-Wallis test[a] or a Fisher's Exact Test[b]. Values are considered significant if $P<0.05$. Age is expressed as a median (interquartile range). Menopause, chemotherapy, and BRCA mutations were expressed as percentiles.

Benign: Normal fallopian tubes from prophylactic surgeries or benign conditions from women without STIC or cancer.

NoSTIC: Fallopian tubes from women who have ovarian cancer but the examined fallopian tube do not contain transformed cells.

STIC: Fallopian tubes with STIC lesions from women who have ovarian cancer. NS, not significant.

Supplementary Table 3. Multivariable linear regression analysis showing histopathologic characteristics of fallopian tubes with or without STIC lesions in the fimbria region.

Characteristics	Model 1 P Value	Model 2 P Value	Model 3 P Value
Number of SCE/total number of epithelial cells			
STIC vs Benign	0.002	0.049	0.045
STIC vs NoSTIC	0.028	0.030	0.021
Number of CCE/total number of epithelial cells			
STIC vs Benign	0.038	0.002	<0.001
STIC vs NoSTIC	NS	NS	NS
Number of secretory cells within SCE			
STIC vs Benign	<0.0001	<0.0001	<0.0001
STIC vs NoSTIC	<0.0001	0.001	0.001
Number of ciliated cells within CCE			
STIC vs Benign	NS	NS	NS
STIC vs NoSTIC	NS	NS	NS

Model 1 was used for comparisons of the characteristics of the Benign, STIC, and NoSTIC groups using the log-transformed values. The multiple linear regression Model 2 included Model 1 plus the potential confounders of menopause, chemotherapy, and BRCA mutations. The multiple linear regression Model 3 included Model 2 plus age as a potential confounder. Values were considered significant if $P<0.05$. SCE, secretory cell expansion; CCE, ciliated cell expansion; NS, not significant.

Supplementary Table 4. Multivariable linear regression analysis showing histopathologic characteristics of fallopian tubes with or without STIC lesions in the ampulla region.

Characteristics	Model 1 P Value	Model 2 P Value	Model 3 P Value
Number of SCE/total number of epithelial cells			
STIC vs Benign	NS	NS	NS
STIC vs NoSTIC	NS	NS	NS
Number of CCE/total number of epithelial cells			
STIC vs Benign	NS	NS	NS
STIC vs NoSTIC	NS	NS	NS
Number of secretory cells within SCE			
STIC vs Benign	<0.001	<0.001	<0.001
STIC vs NoSTIC	0.003	0.021	0.030
Number of ciliated cells within CCE			
STIC vs Benign	0.043	0.028	0.016
STIC vs NoSTIC	NS	0.025	0.035

Model 1 was used for comparisons of the characteristics of the Benign, STIC, and NoSTIC groups using the log-transformed values. The multiple linear regression Model 2 included Model 1 plus the potential confounders of menopause, chemotherapy, and BRCA mutations. The multiple linear regression Model 3 included Model 2 plus age as a potential confounder. Values were considered significant if $P<0.05$. SCE, secretory cell expansion; CCE, ciliated cell expansion; NS, not significant.