Fig.1

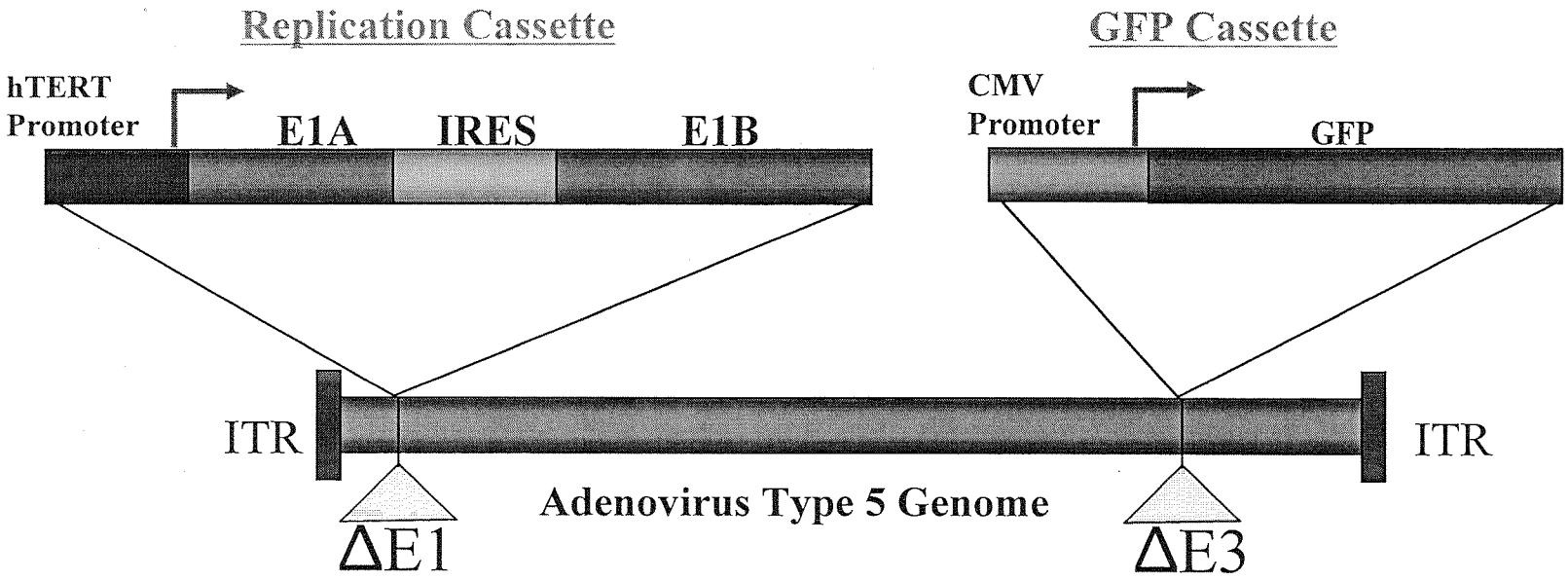

Replication Cassette
GFP Cassette
hTERT
Promoter
E1A
IRES
E1B
CMV
Promoter
GFP
ITR
ITR
Adenovirus Type 5 Genome
ΔE1
ΔE3

Fig. 2

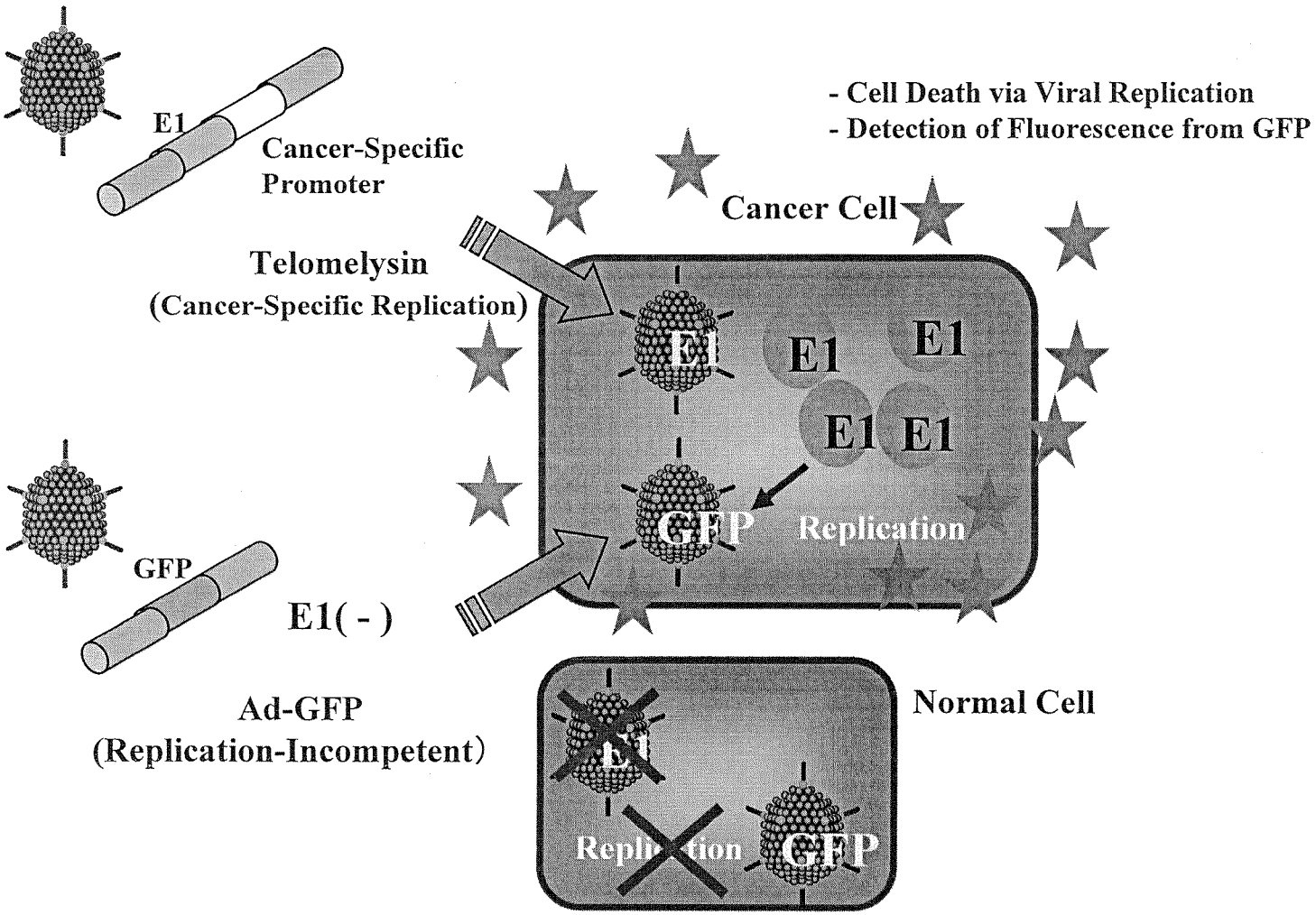

- Cell Death via Viral Replication
- Detection of Fluorescence from GFP
E1
Cancer-Specific
Promoter
Telomelysin
(Cancer-Specific Replication)
Cancer Cell
E1
E1
E1
E1
E1
GFP
Replication
GFP
E1( - )
Ad-GFP
(Replication-Incompetent)
Normal Cell
E1
Repli tion
GFP

Fig. 3

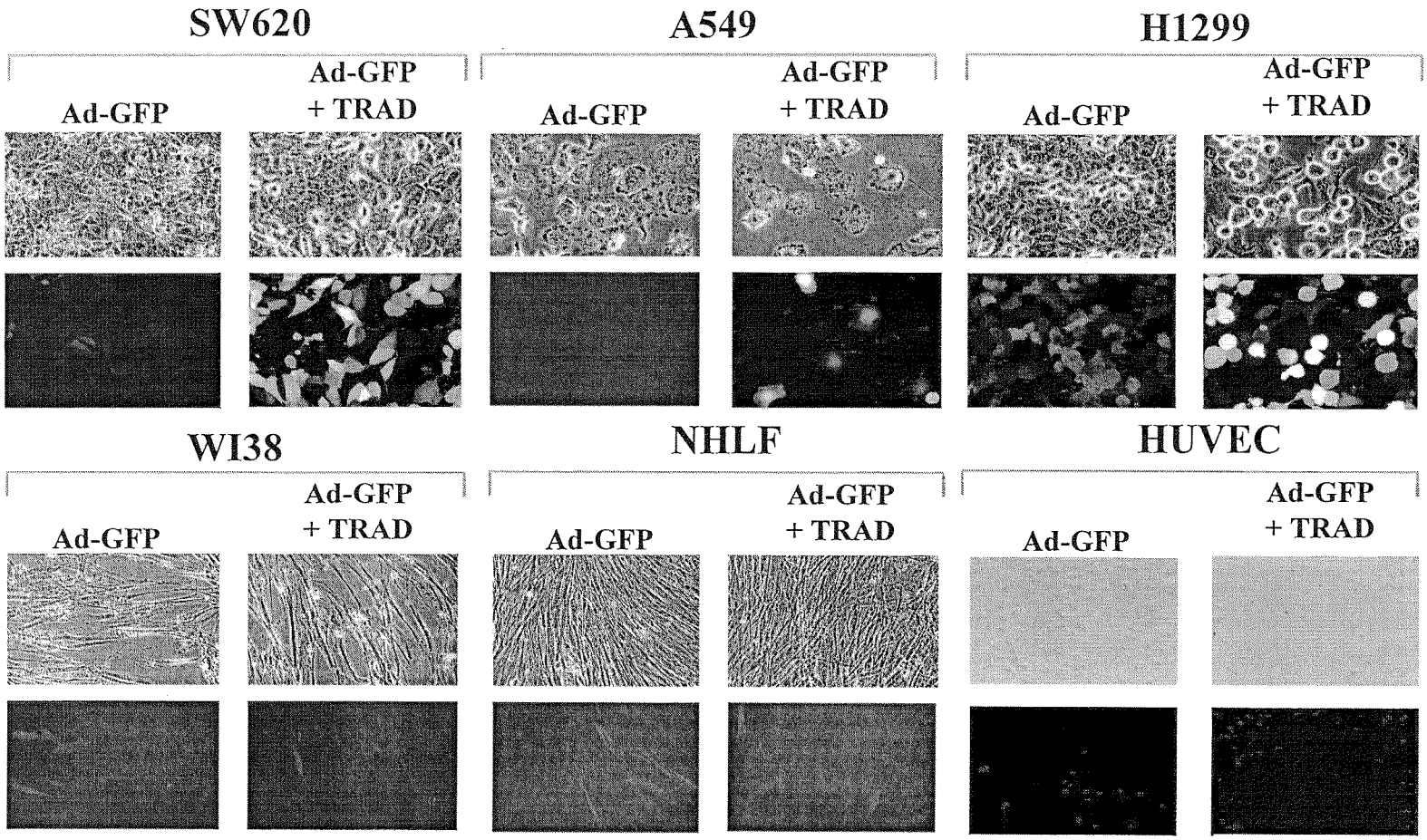

SW620
Ad-GFP
Ad-GFP + TRAD
A549
Ad-GFP
Ad-GFP + TRAD
H1299
Ad-GFP
Ad-GFP + TRAD
WI38
Ad-GFP
Ad-GFP + TRAD
NHLF
Ad-GFP
Ad-GFP + TRAD
HUVEC
Ad-GFP
Ad-GFP + TRAD

Fig. 4

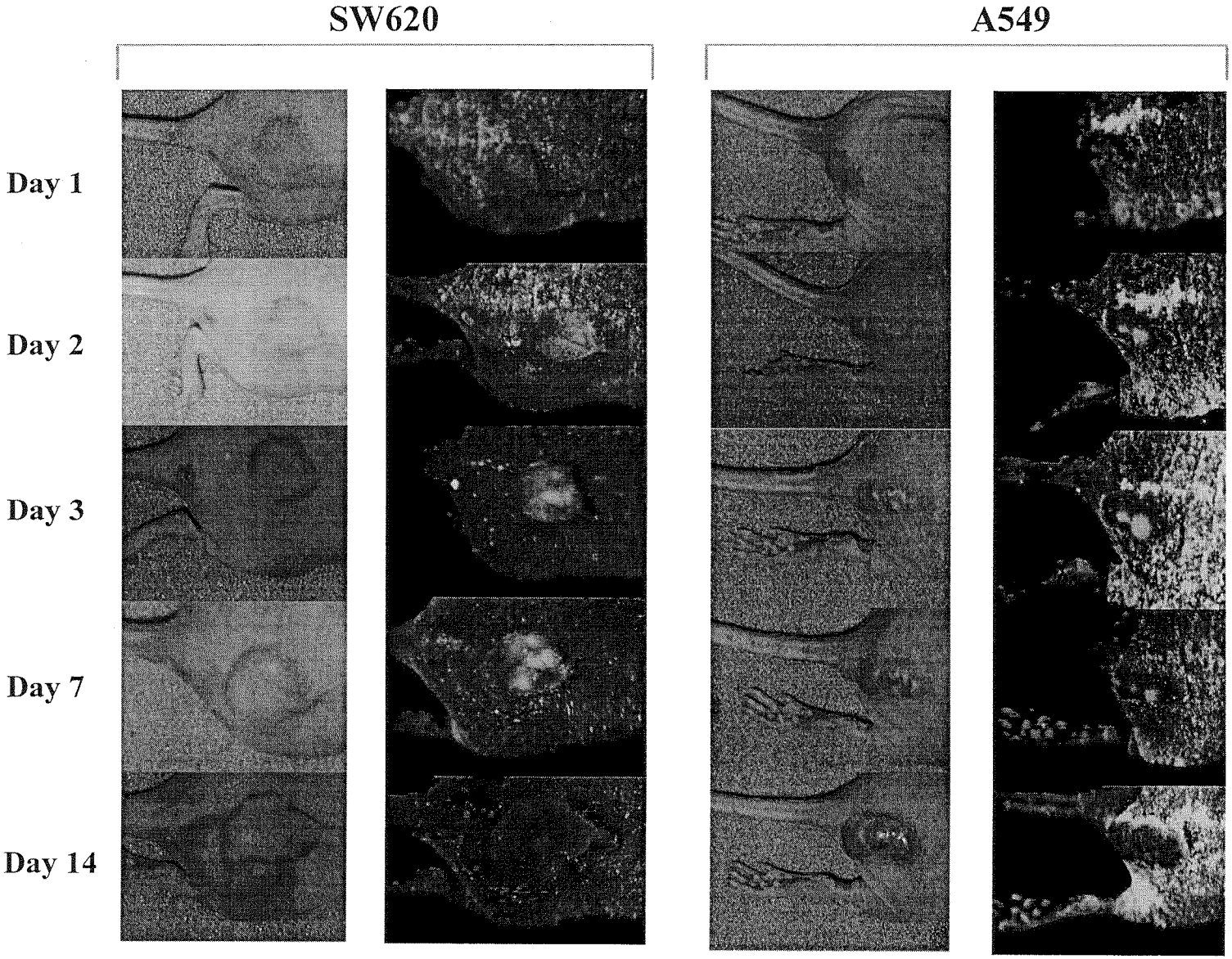


Fig. 5

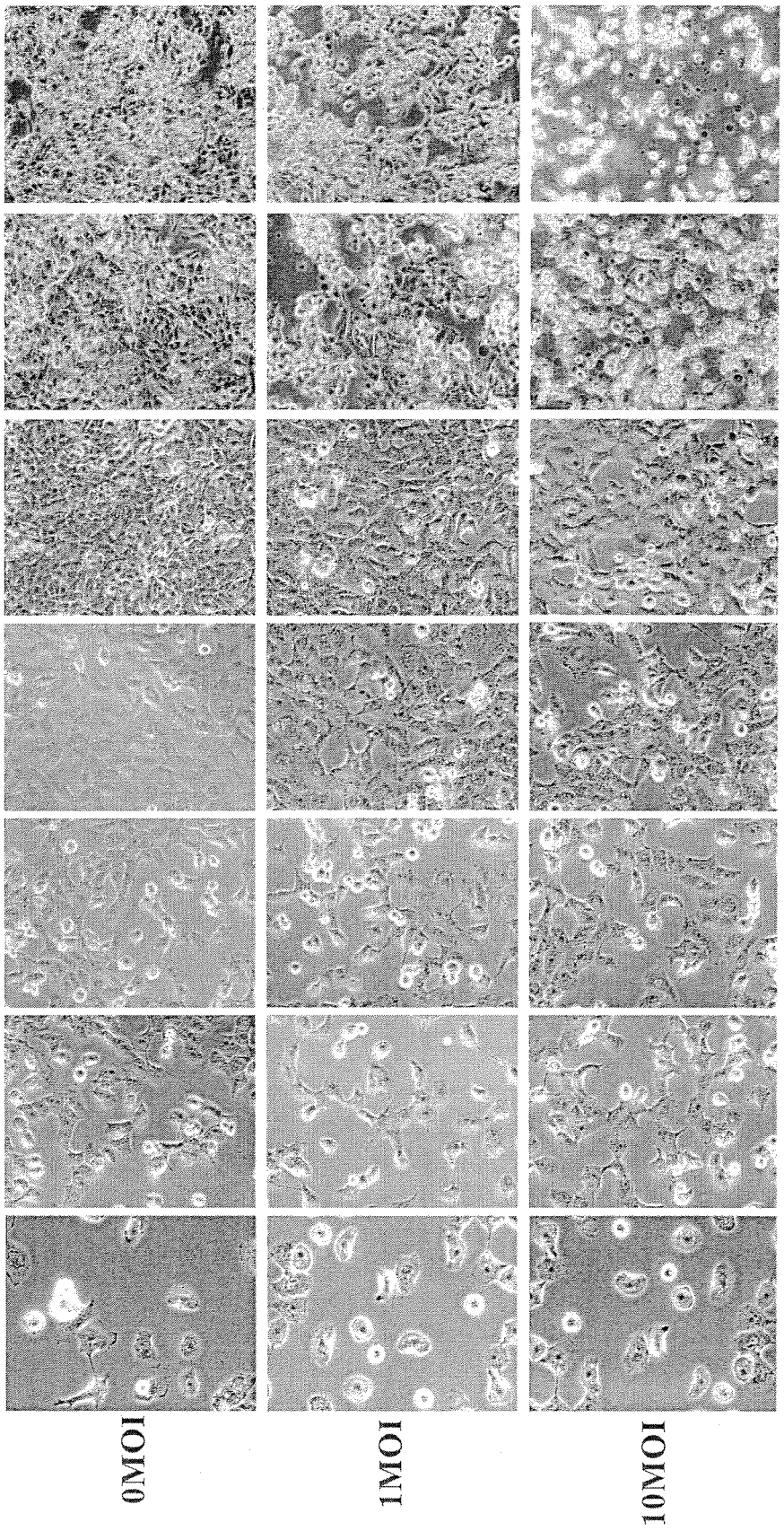


Fig. 6

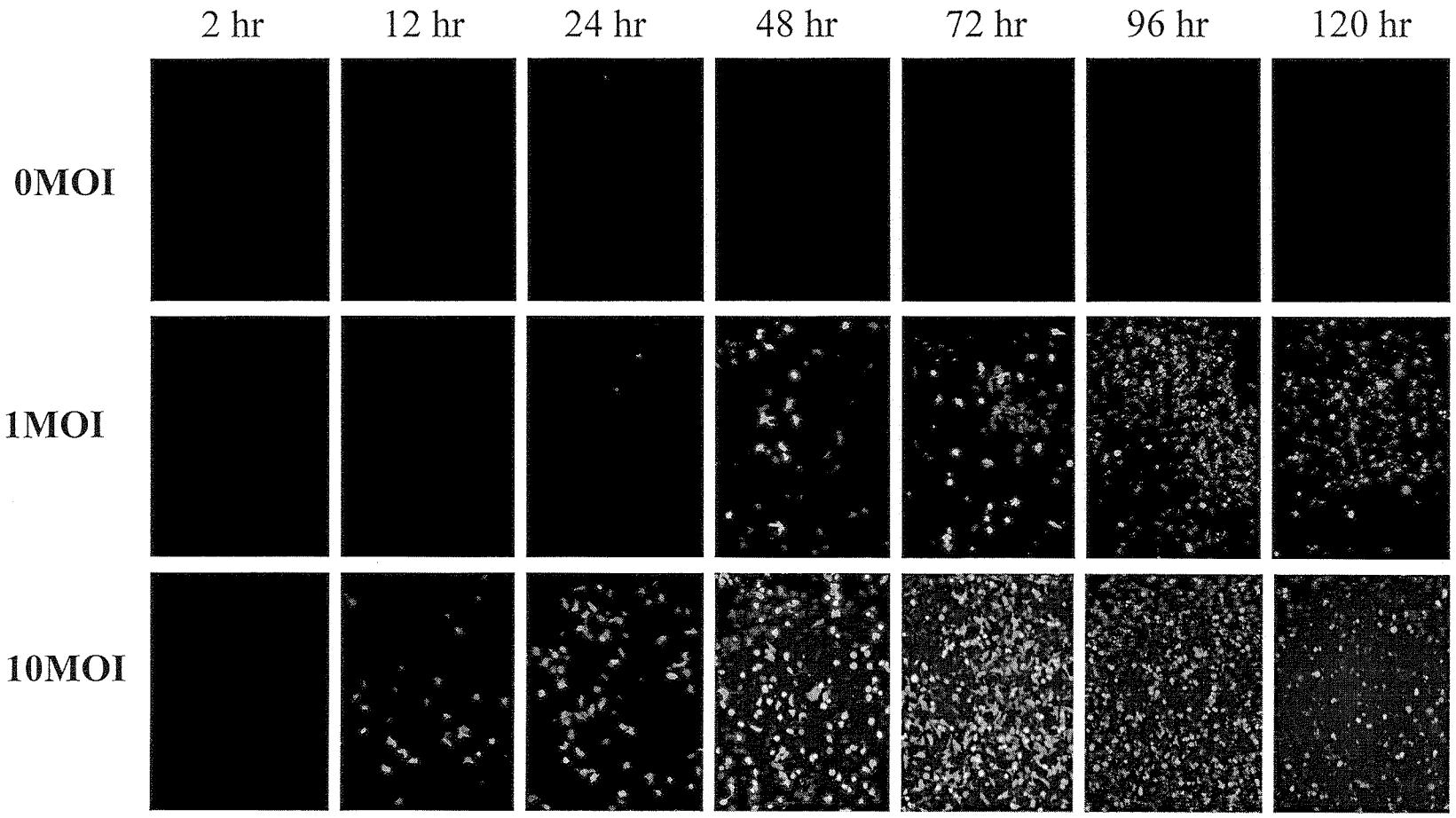


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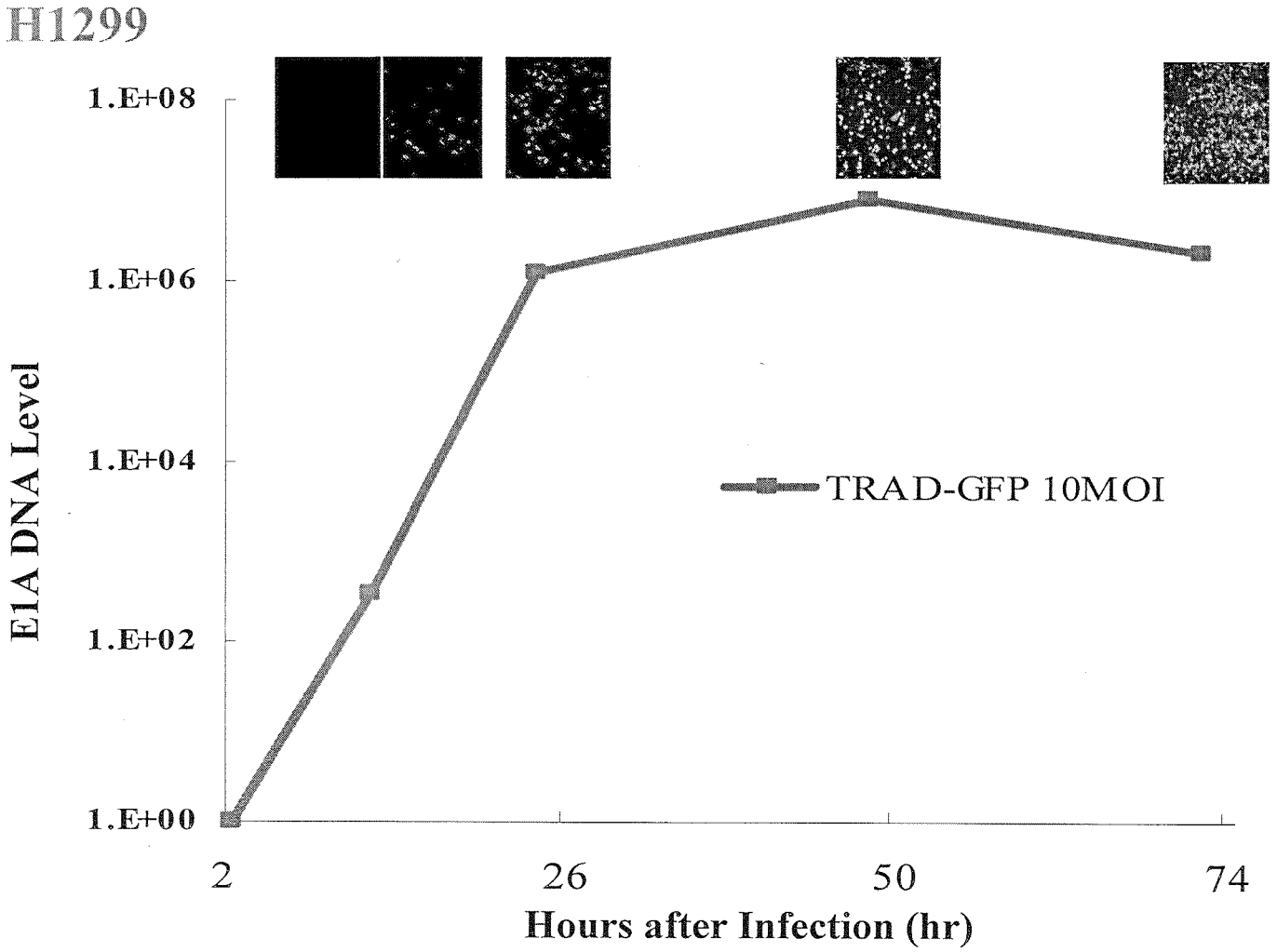

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1.E+08
1.E+06
1.E+04
1.E+02
1.E+00
E1A DNA Level
TRAD-GFP 10MOI
2
26
50
74
Hours after Infection (hr)

Fig. 8

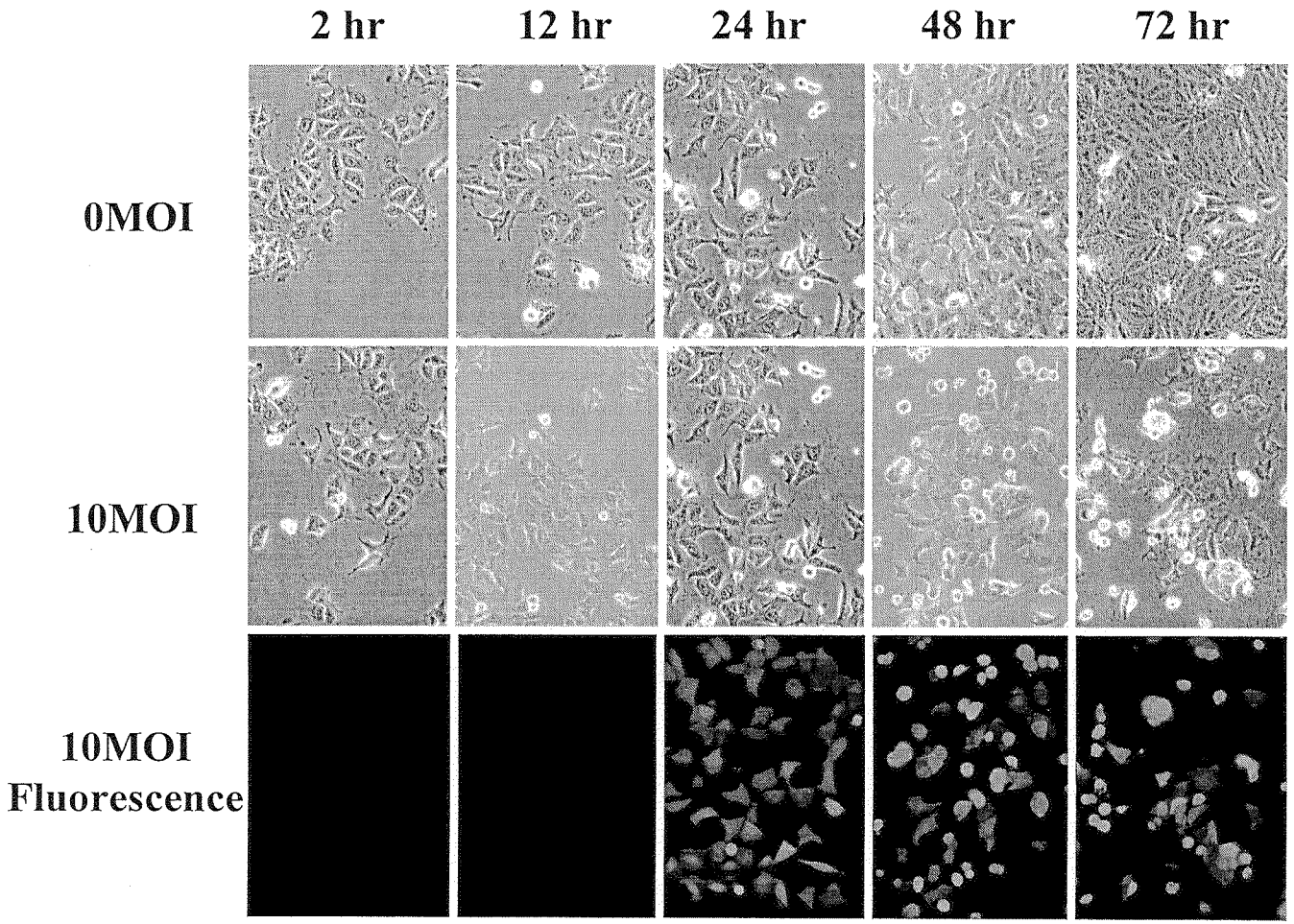


Fig. 9

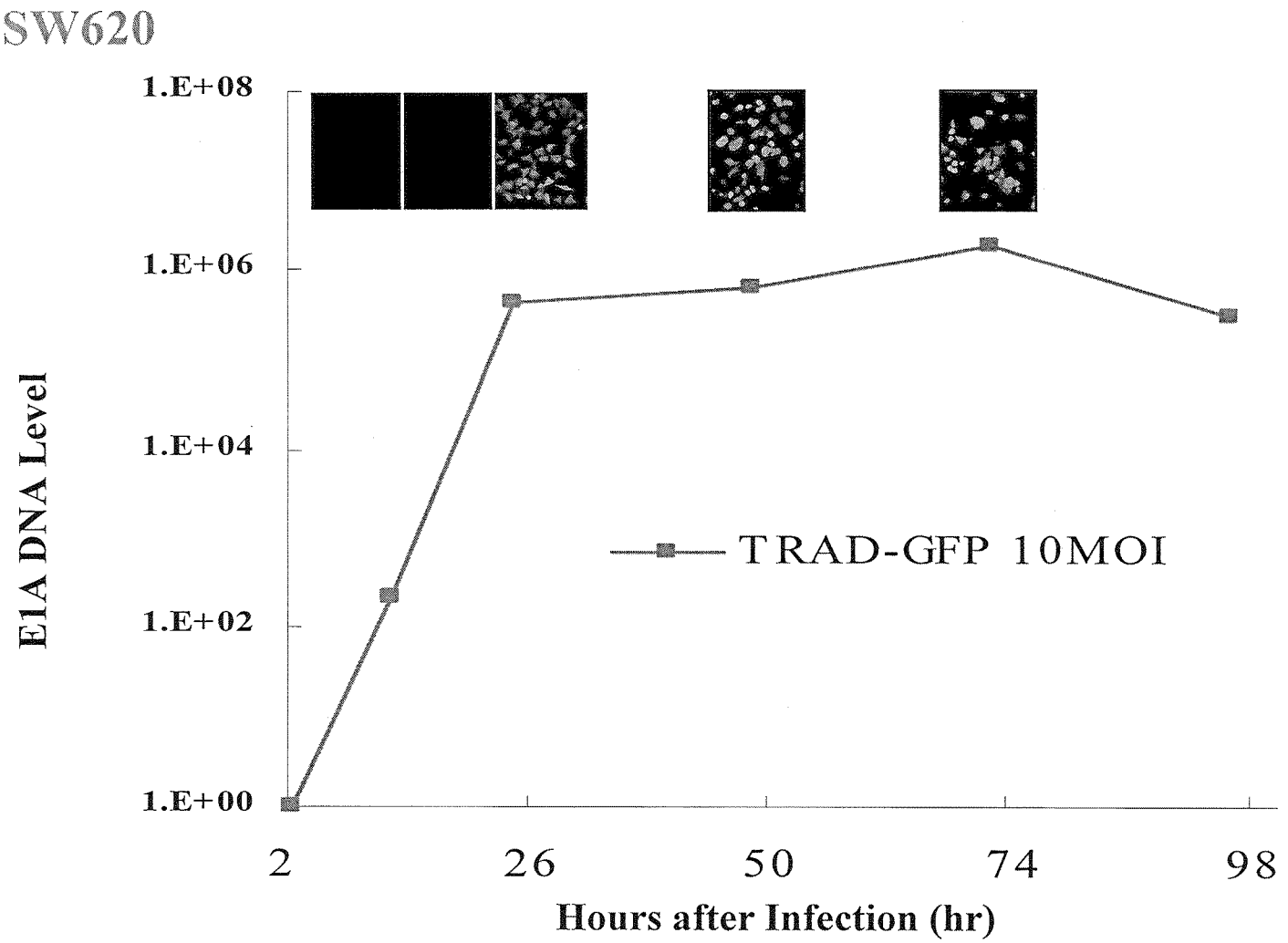

SW620
1.E+08
1.E+06
1.E+04
1.E+02
1.E+00
E1A DNA Level
TRAD-GFP 10MOI
2
26
50
74
98
Hours after Infection (hr)

Fig. 10

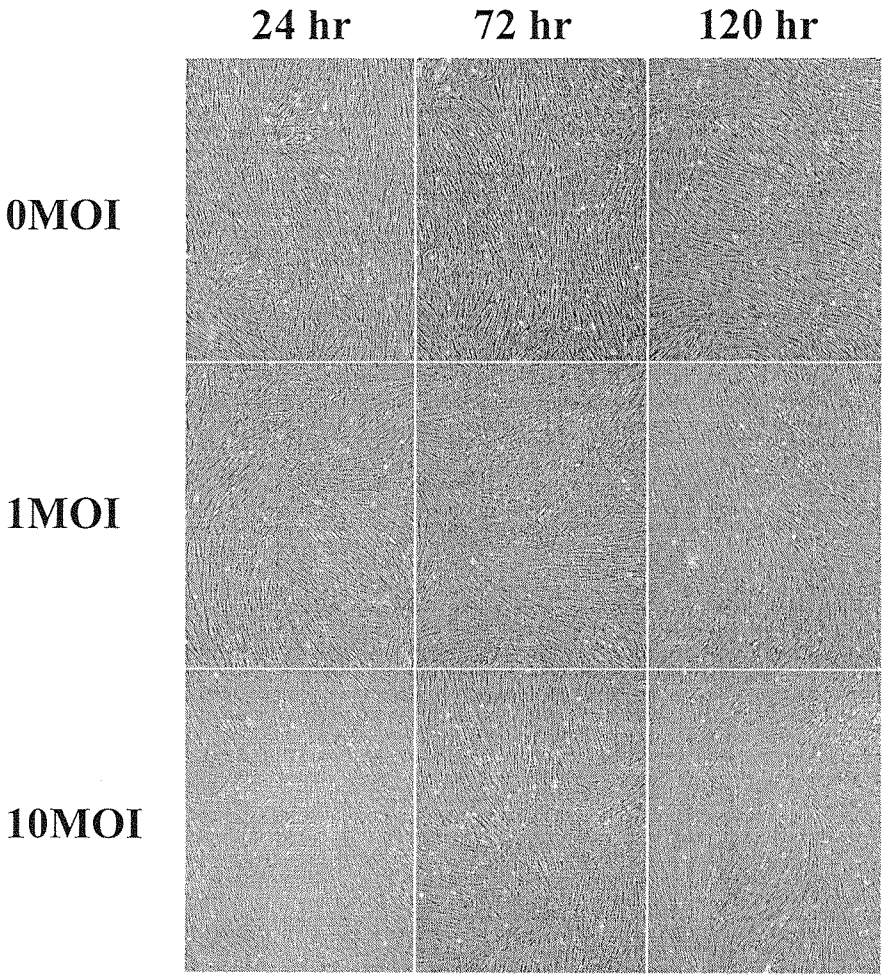


Fig. 11

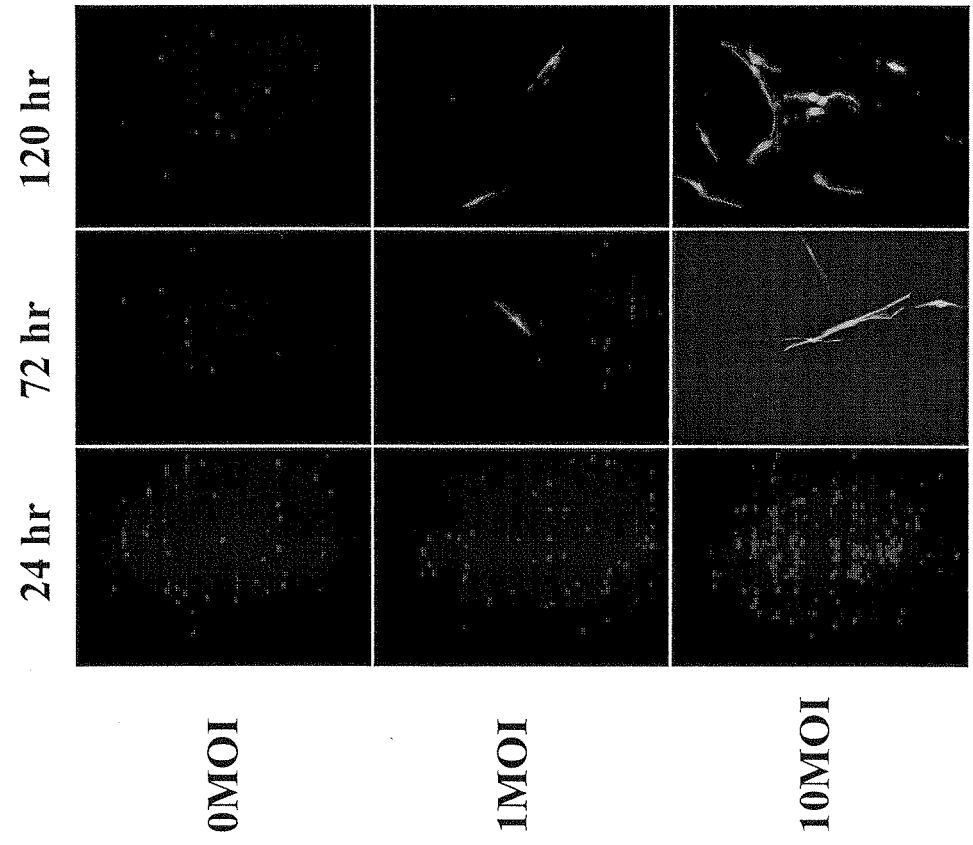


Fig. 12

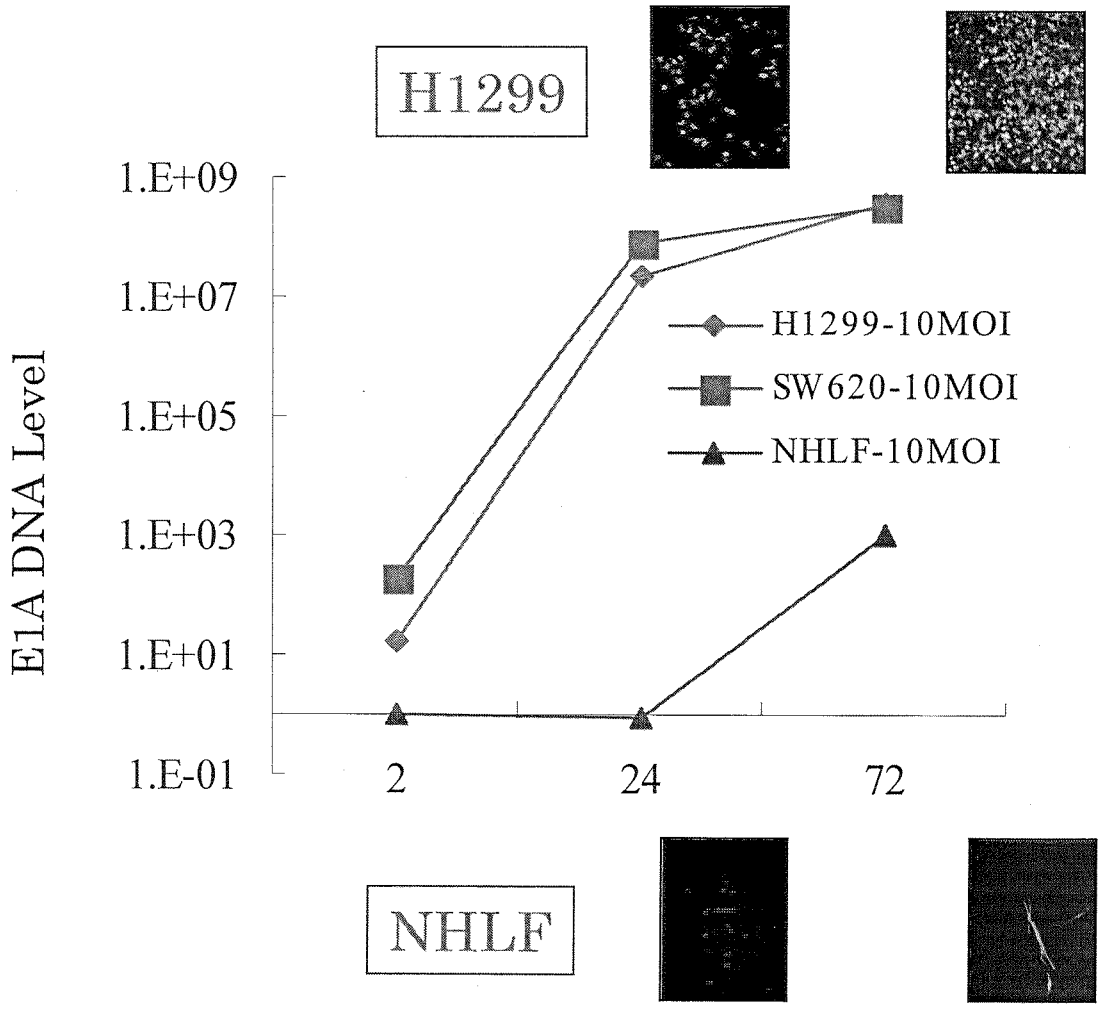

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1.E+01
1.E-01
E1A DNA Level
2
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H1299-10MOI
SW620-10MOI
NHLF-10MOI
NHLF

Fig. 13

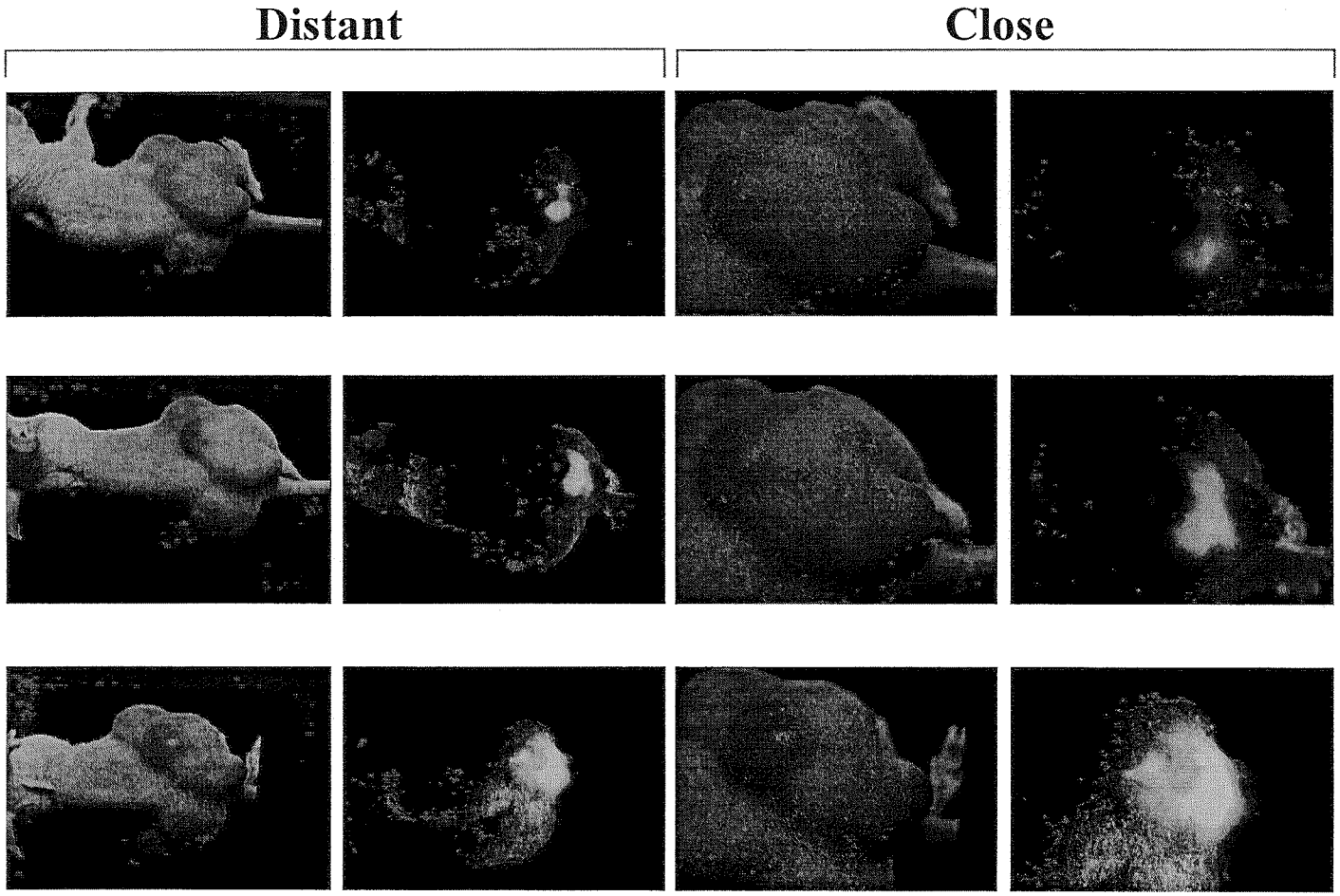


Fig. 14

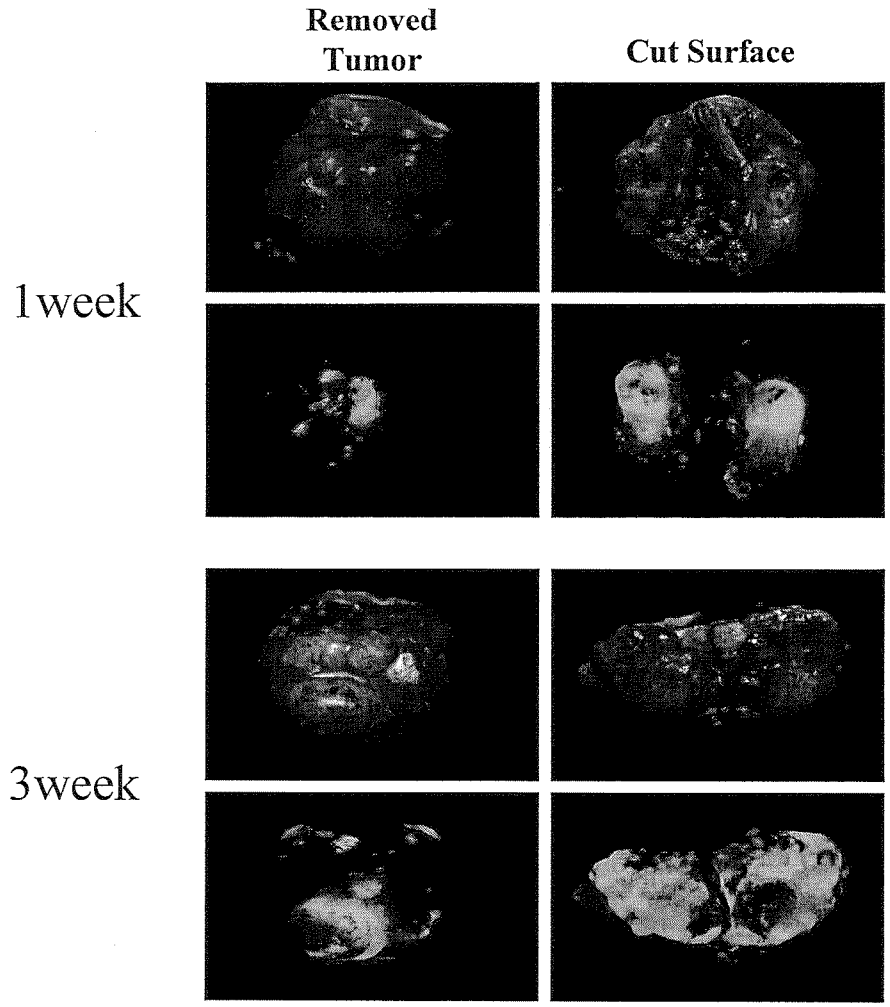


Fig. 15

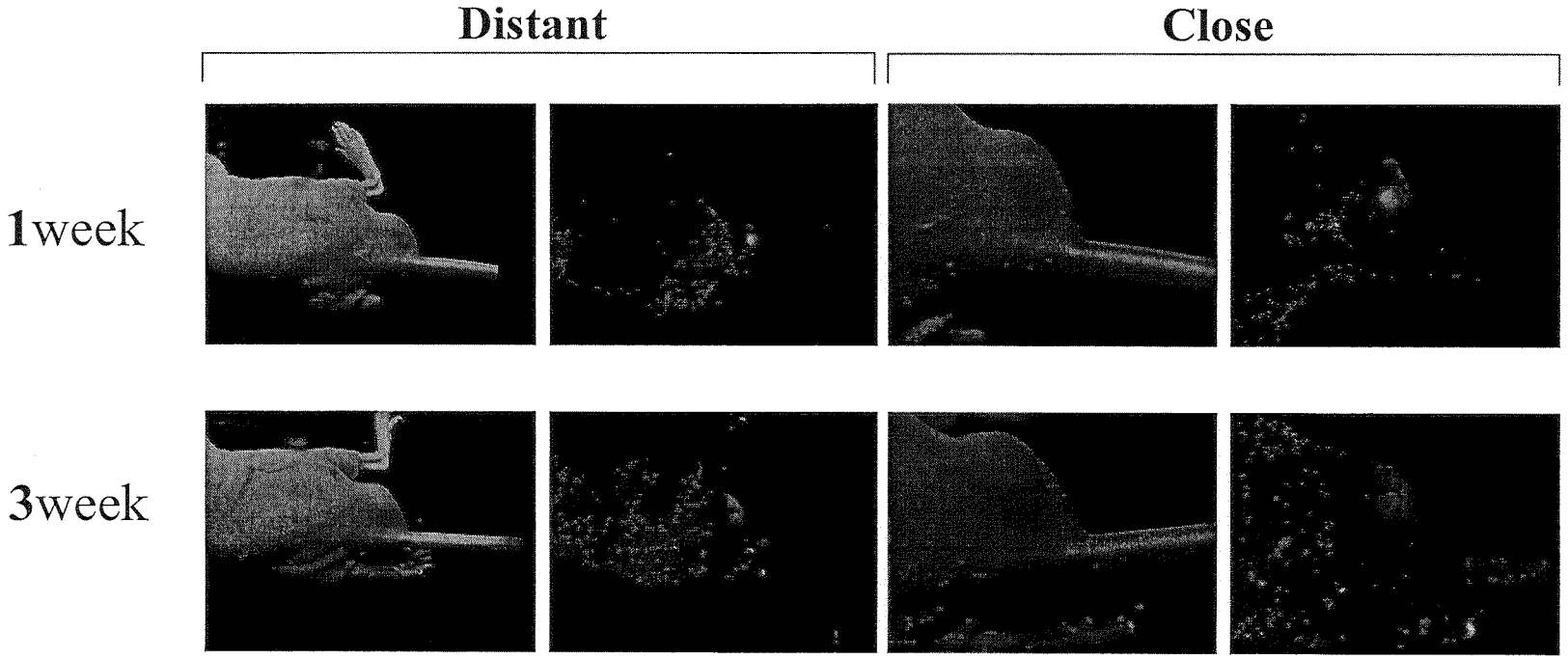


Fig. 16

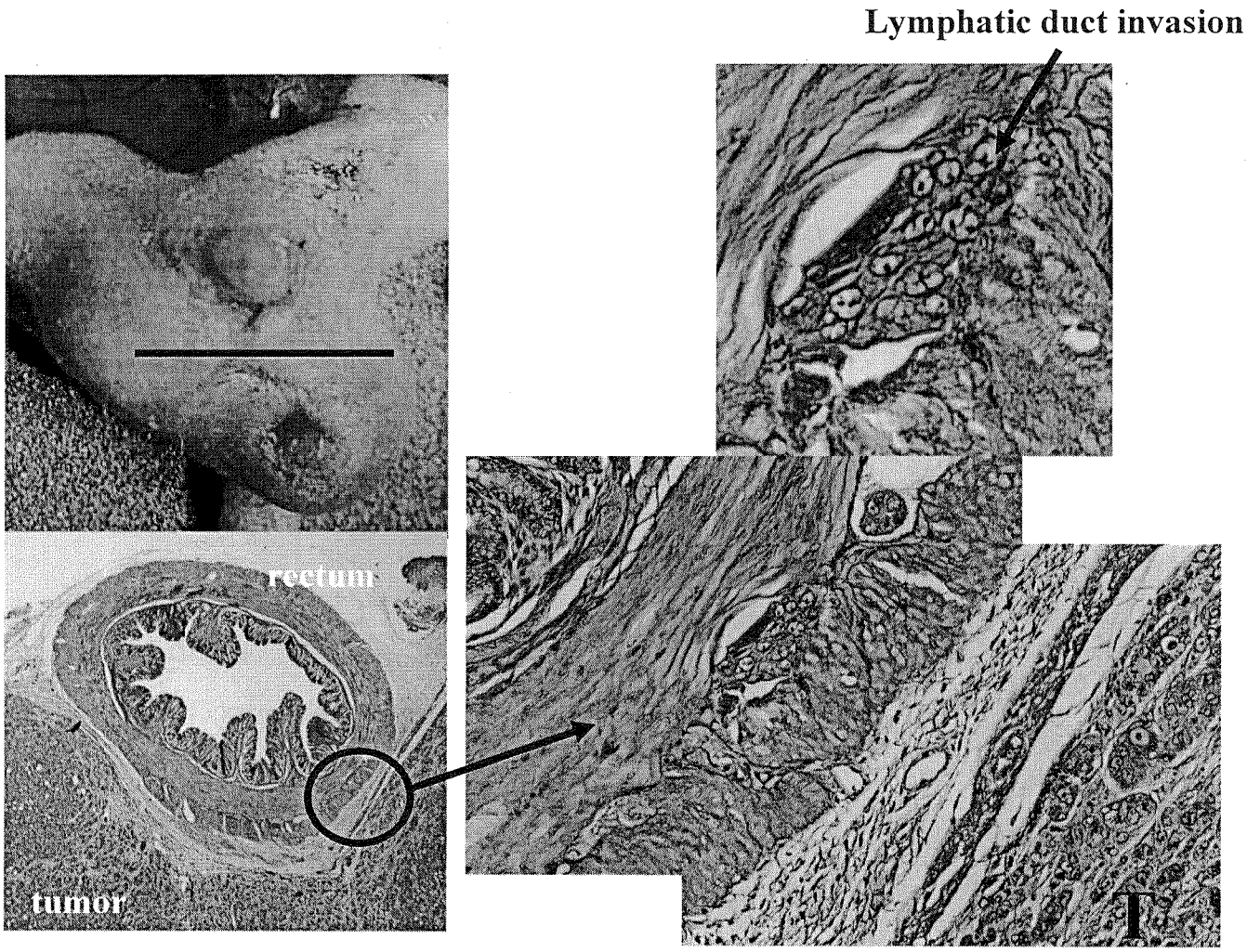


Fig. 17

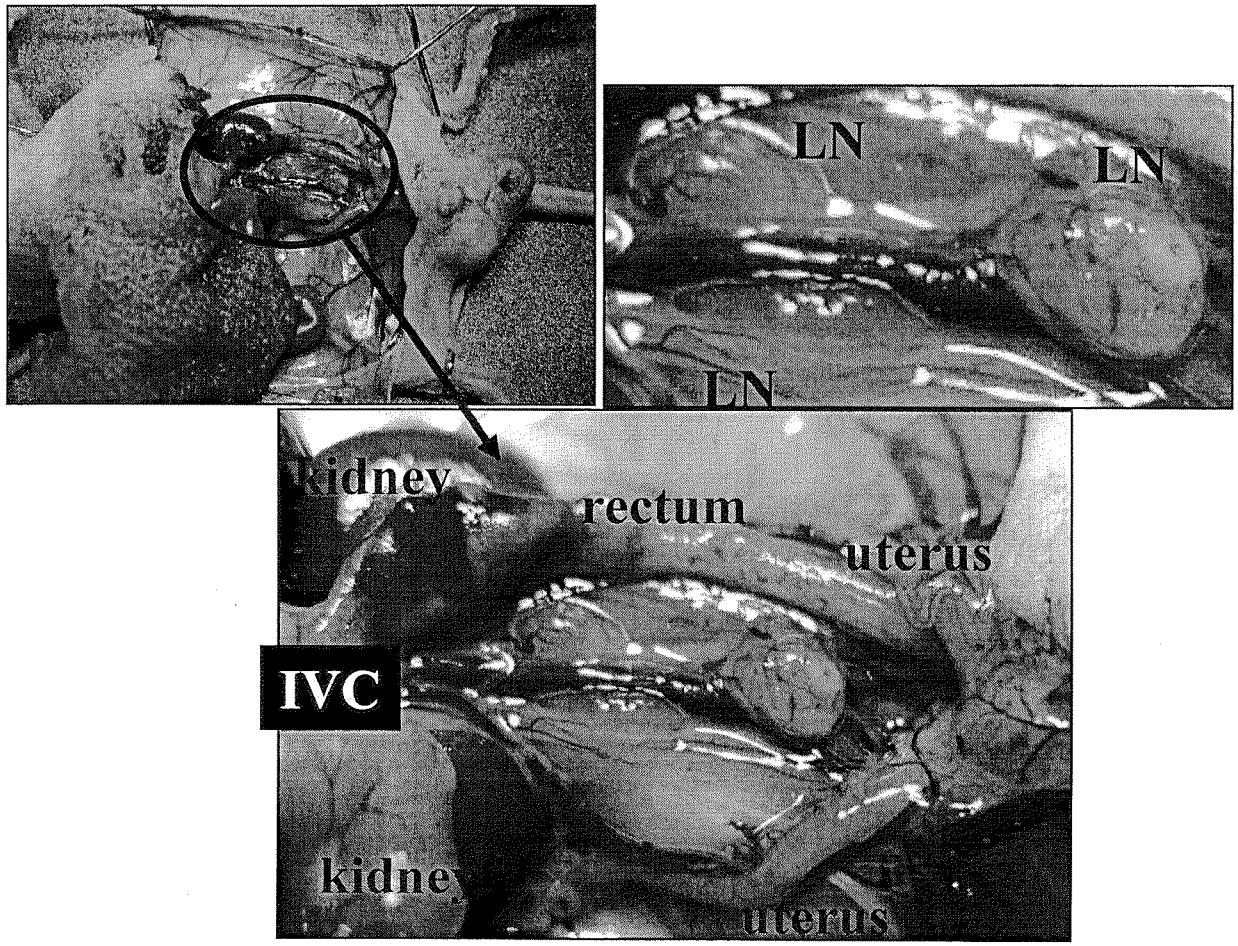


Fig. 18

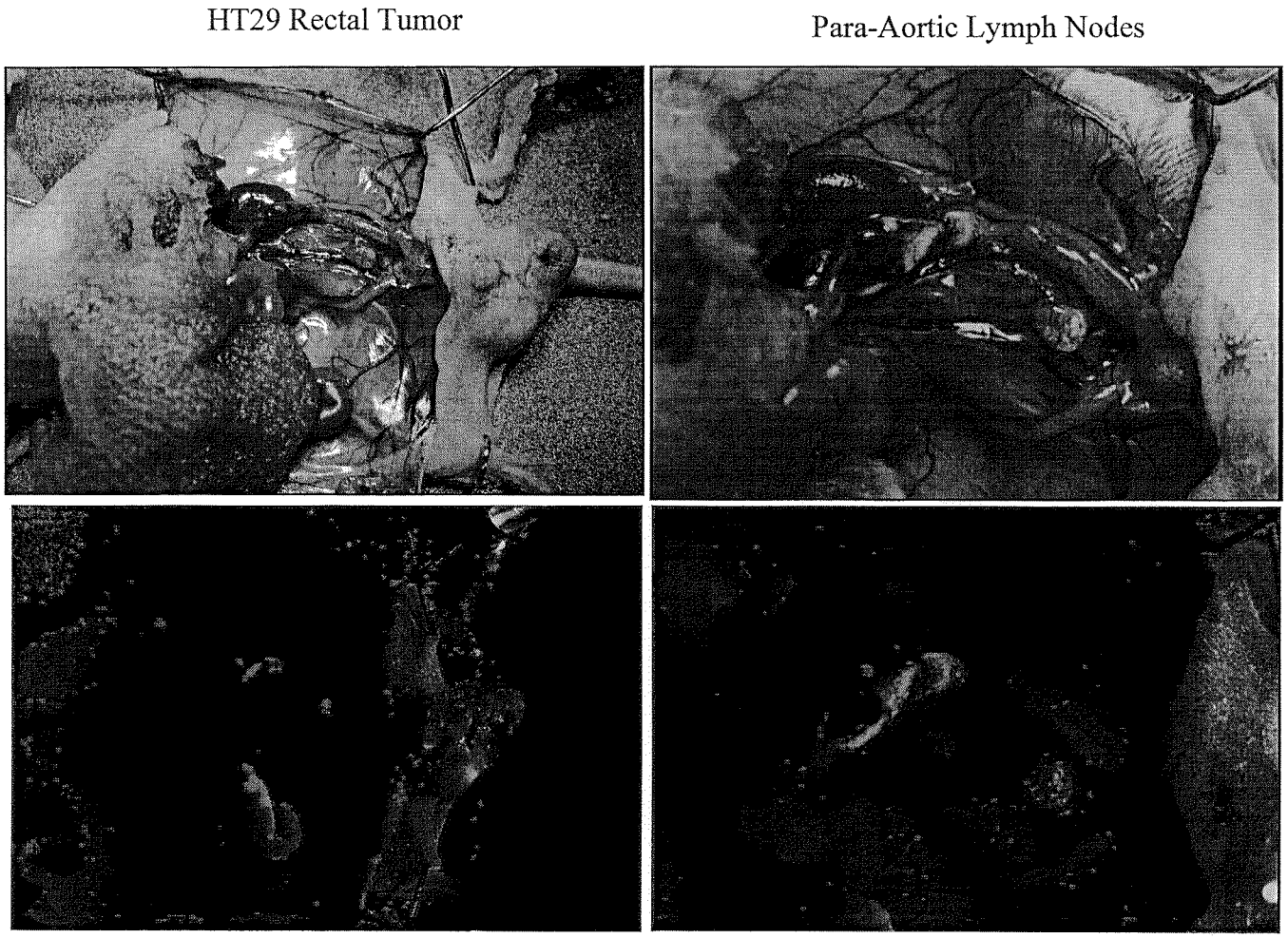


Fig. 19

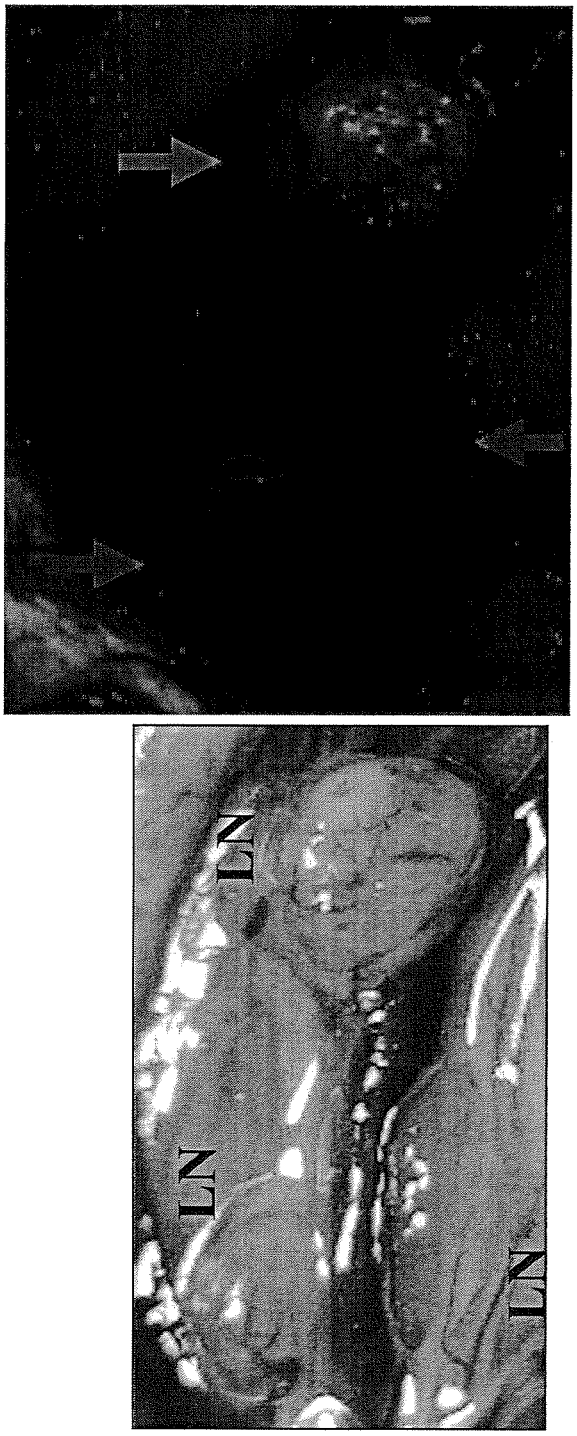
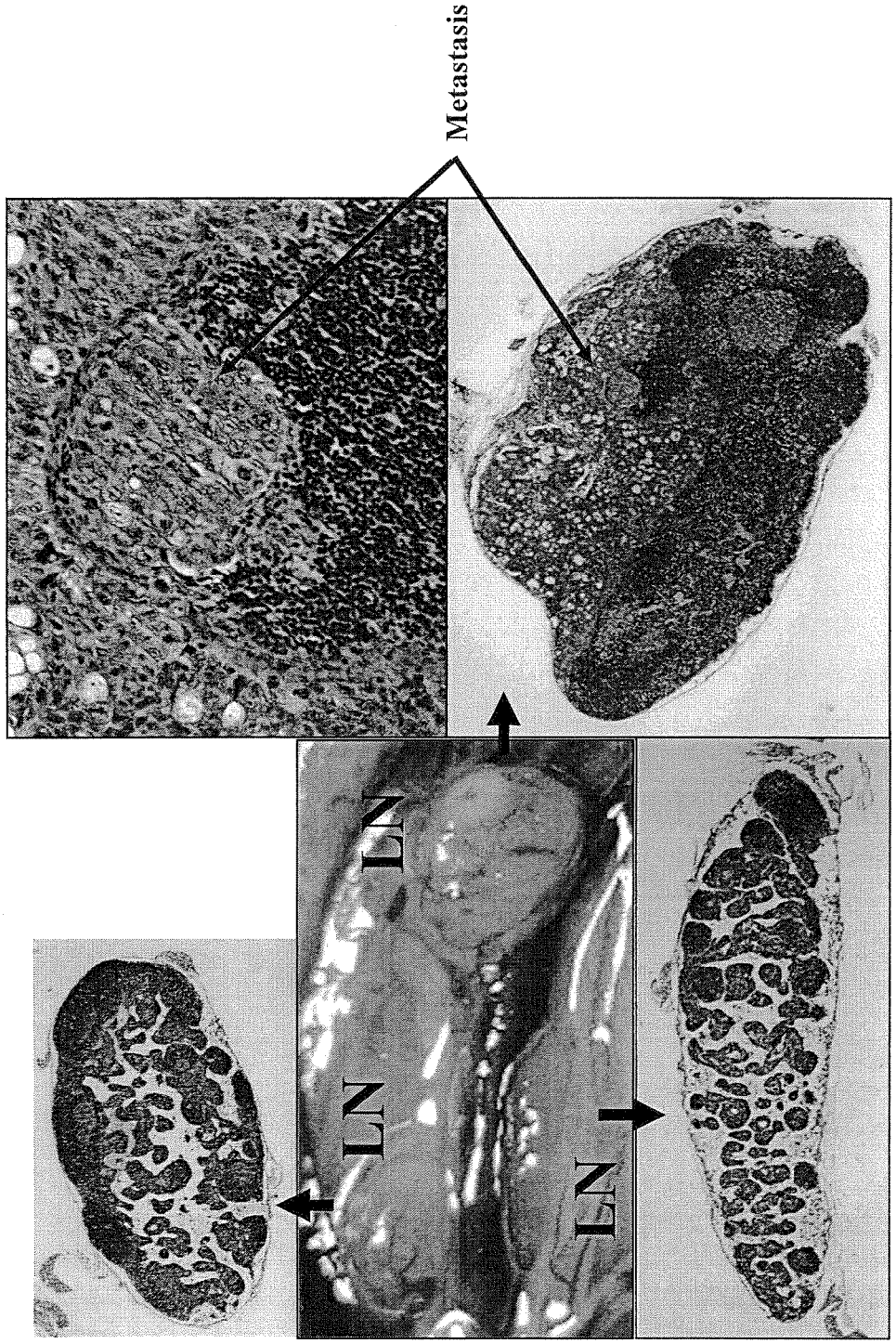


Fig. 20



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