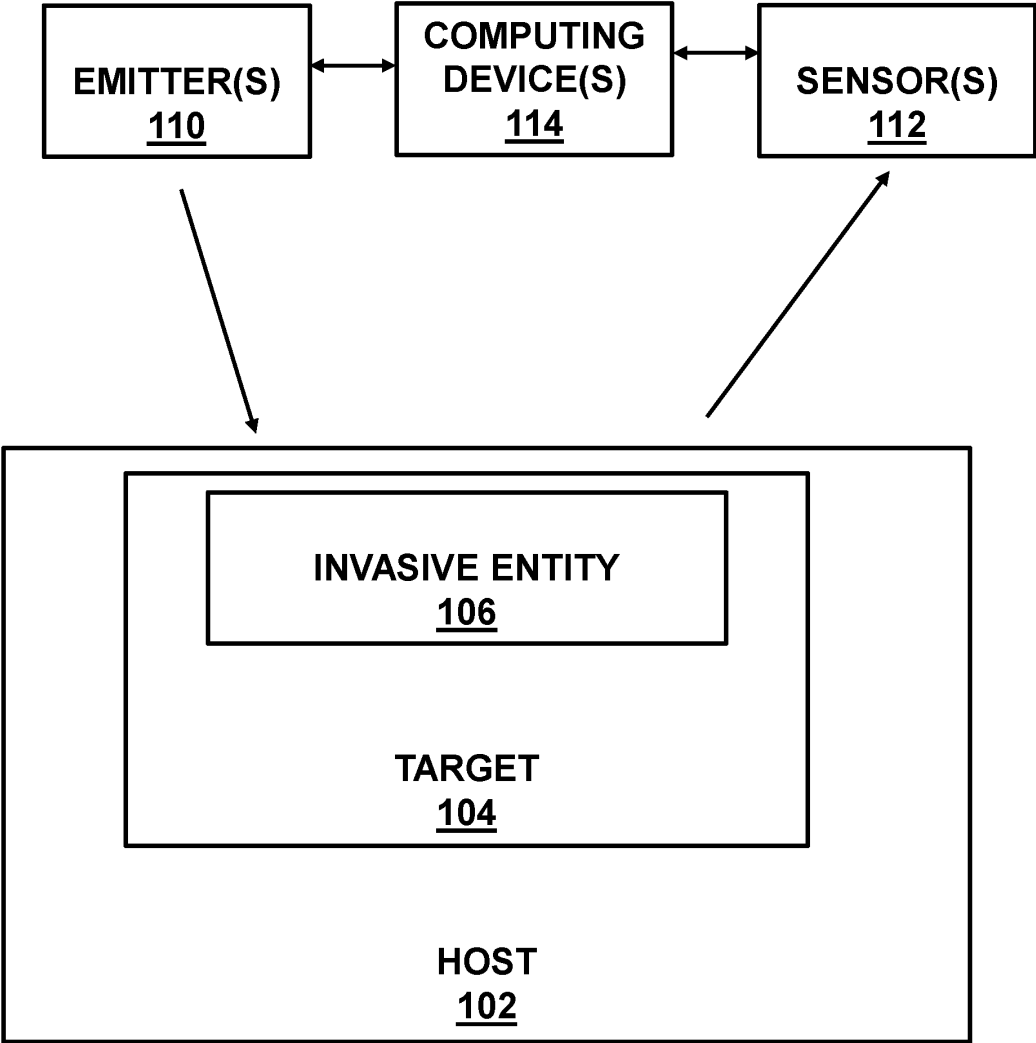




100
FIG. 1

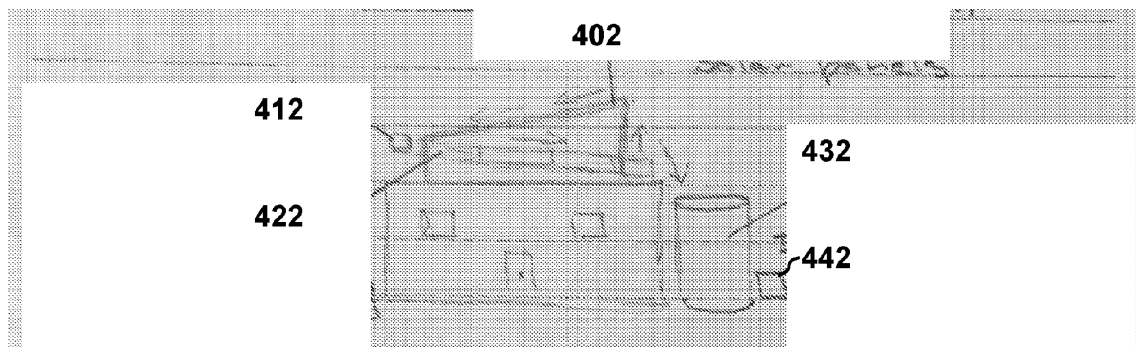


200
FIG. 2

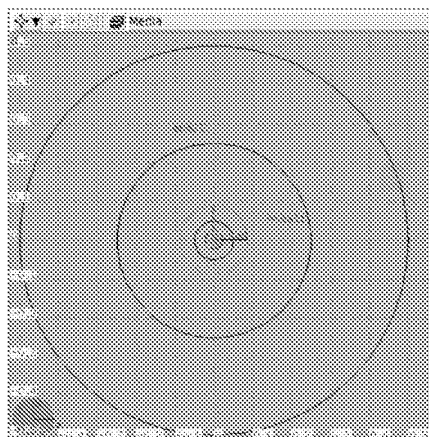
Percent Transmission to the Center of Selected Cells and Viruses in the UV					
Biological Sample	Diameter (μm)	Wavelength (nm)			
		200	250	300	350
Bacteriophage (T2)	0.1	74	86	100	100
Herpes simplex virus	0.15	66	80	100	100
Bacterial cell	1	33	78	98	100
Yeast cell	5	1.6	69	97	100
Mammalian cell (spherical)	20	10 ^a	20	91	96
Mammalian tissue (100 μm thick)	—	—	10 ^b	39	66

Note: All values are approximate. Values at λ above 300 nm can vary widely due to the presence of endogenous chromophores

300
FIG. 3

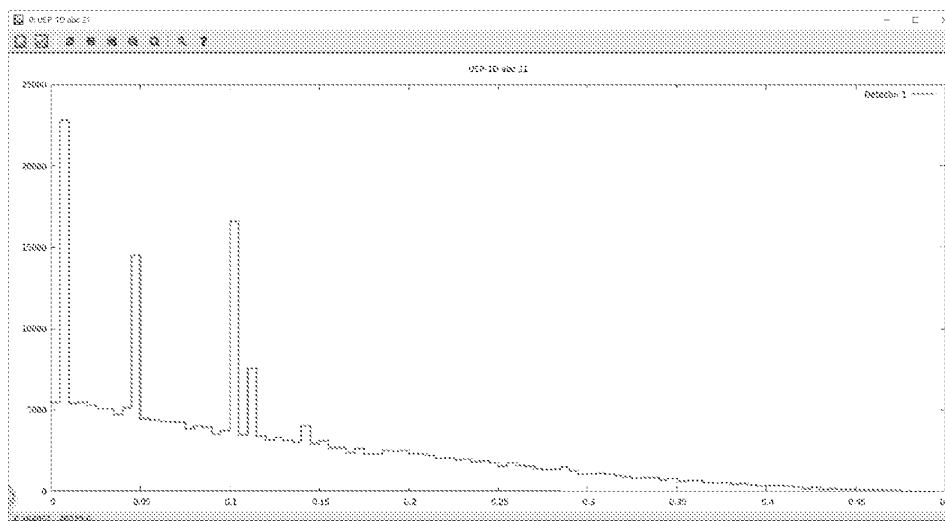


400
FIG. 4

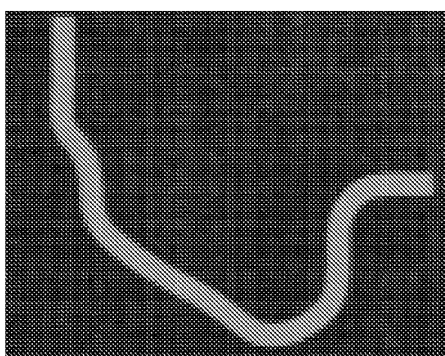


500
FIG. 5

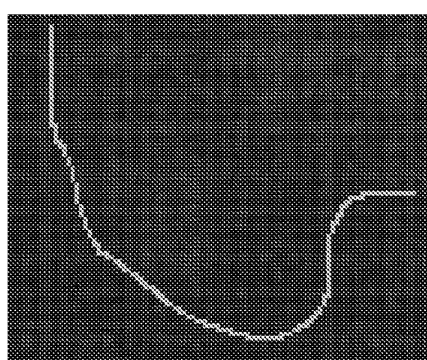
6 / 30



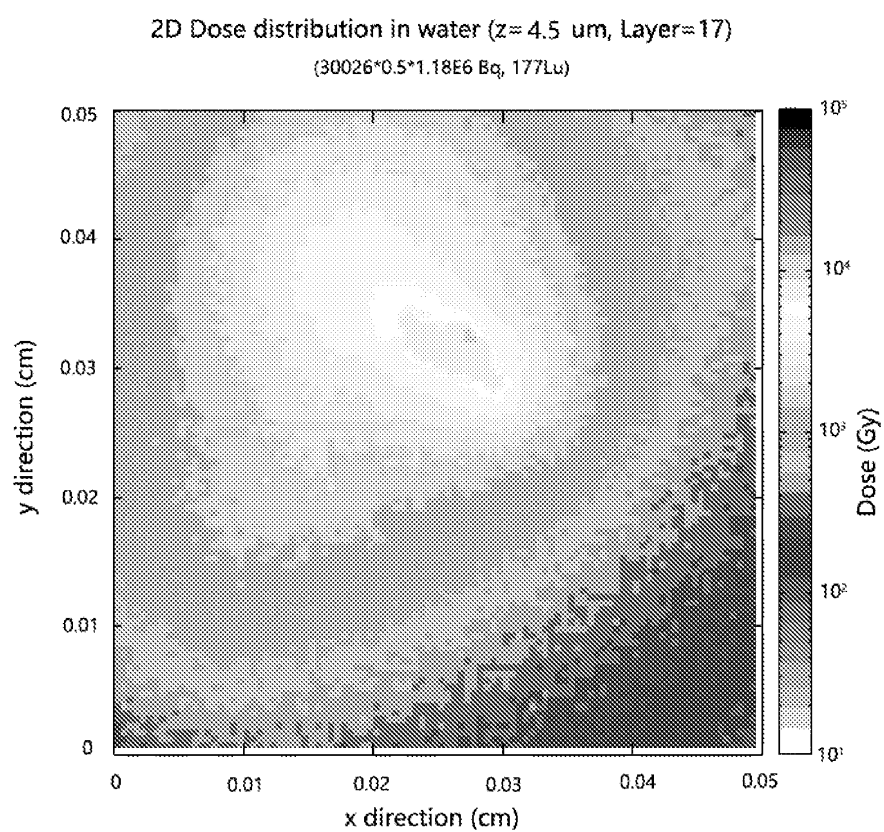
600
FIG. 6



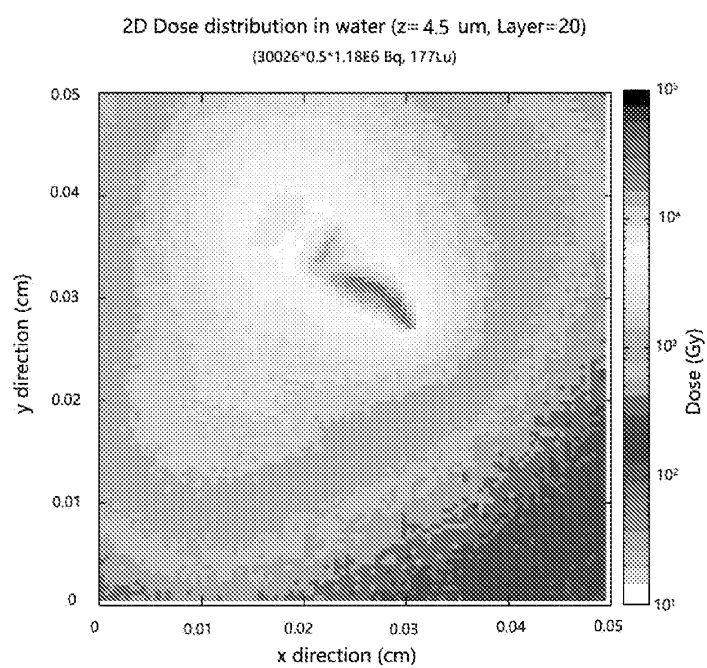
700A
FIG. 7A



700B
FIG. 7B

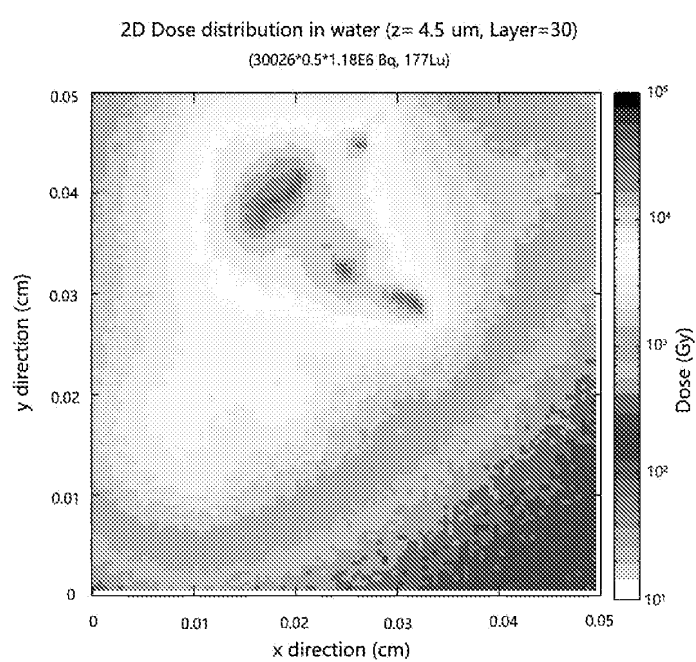


800A
FIG. 8A

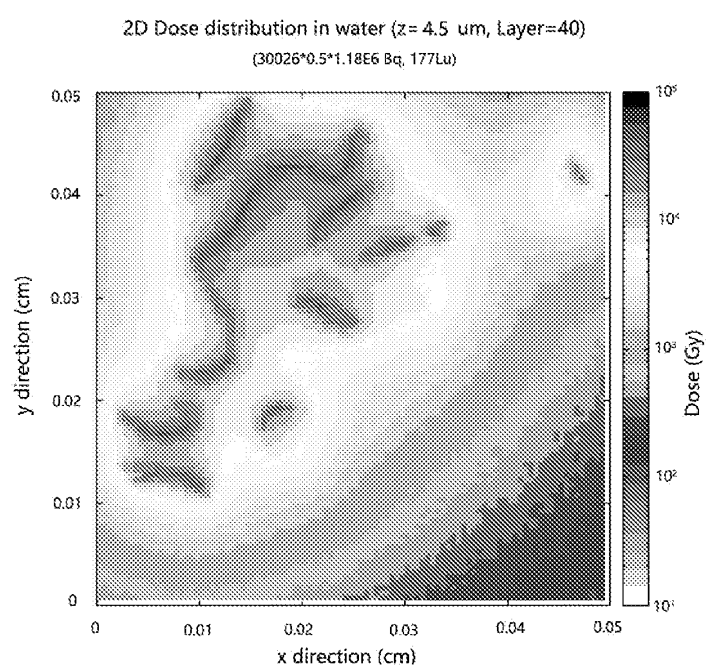


800B
FIG. 8B

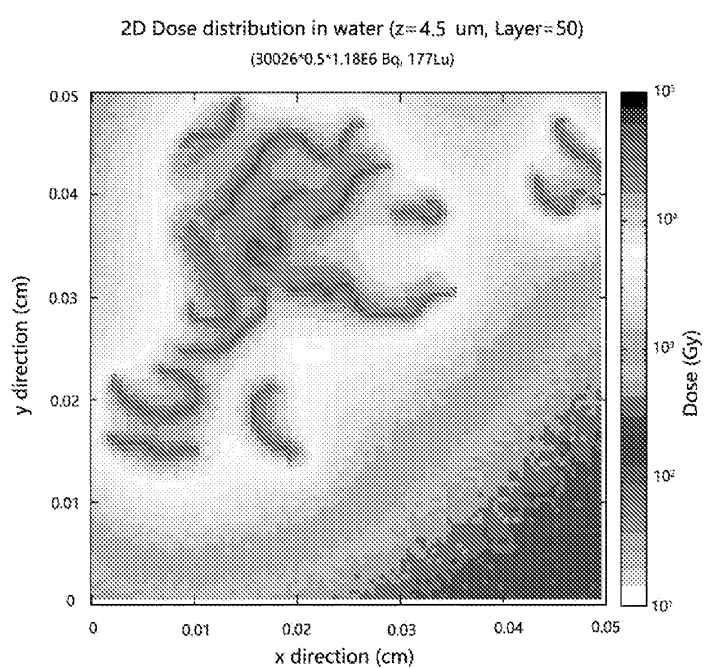
10 / 30



800C
FIG. 8C

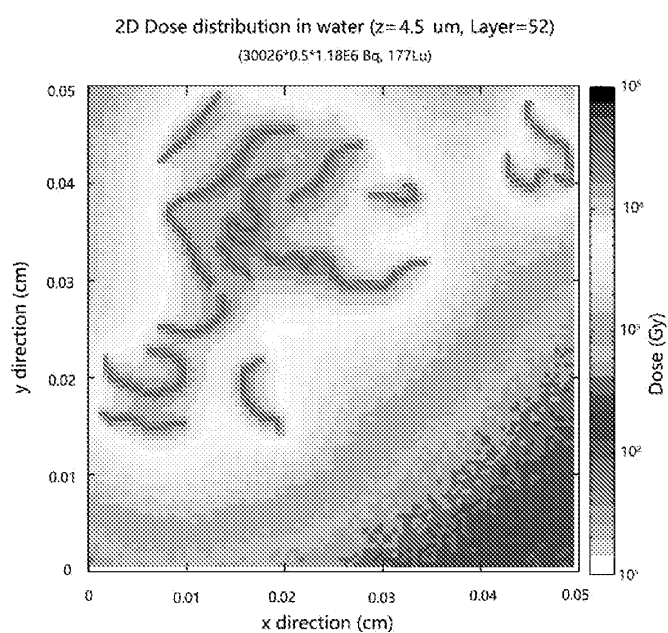


800D
FIG. 8D



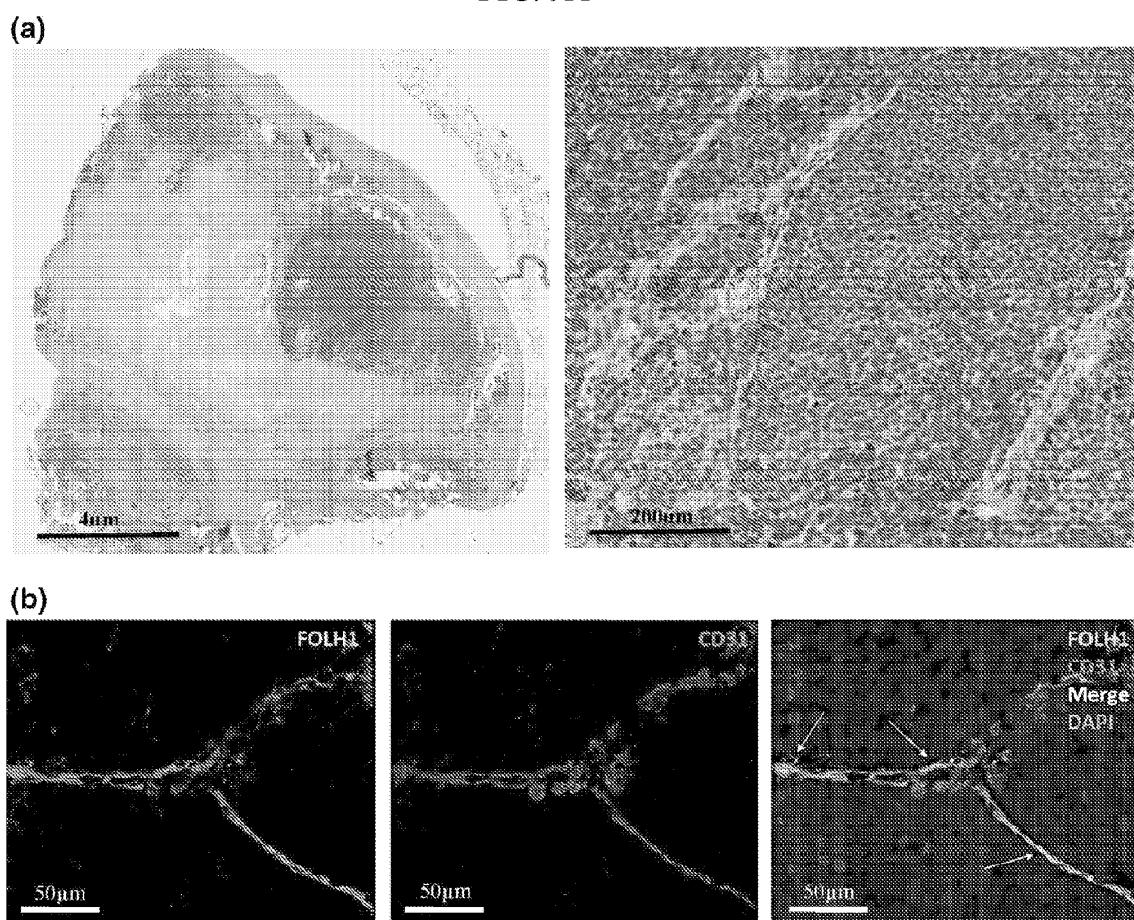
800E
FIG. 8E

13 / 30

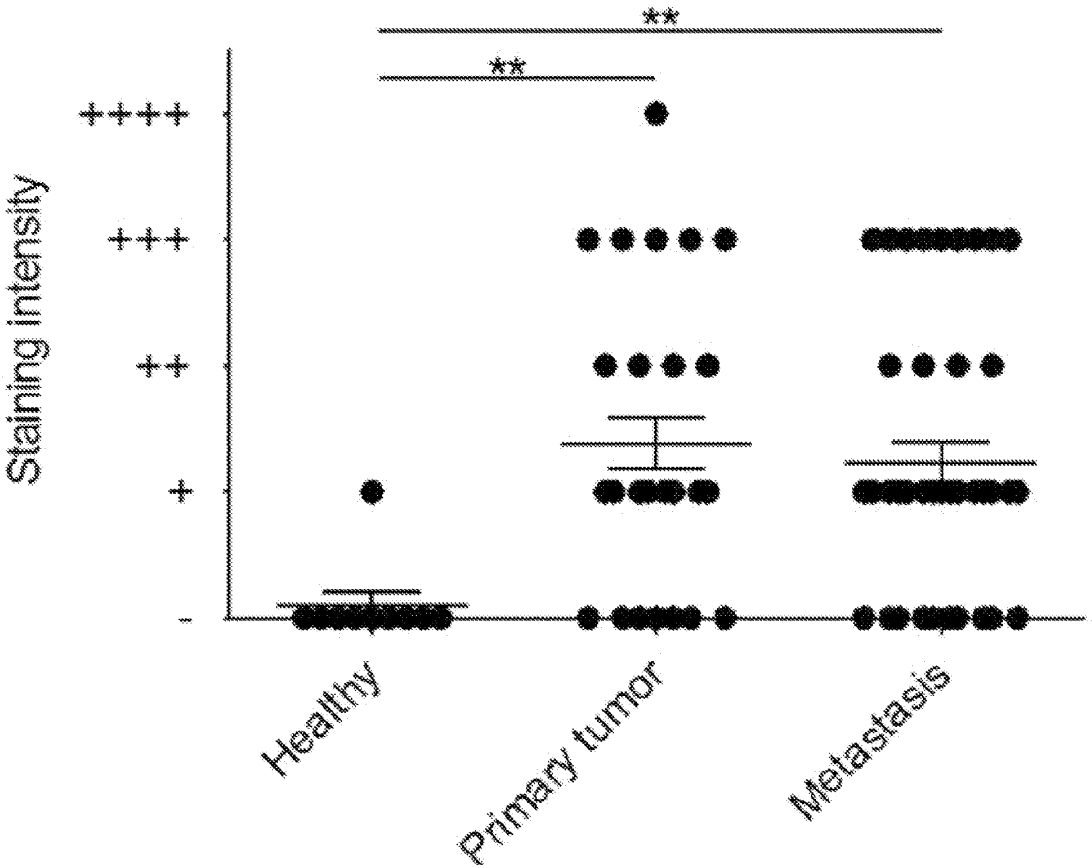


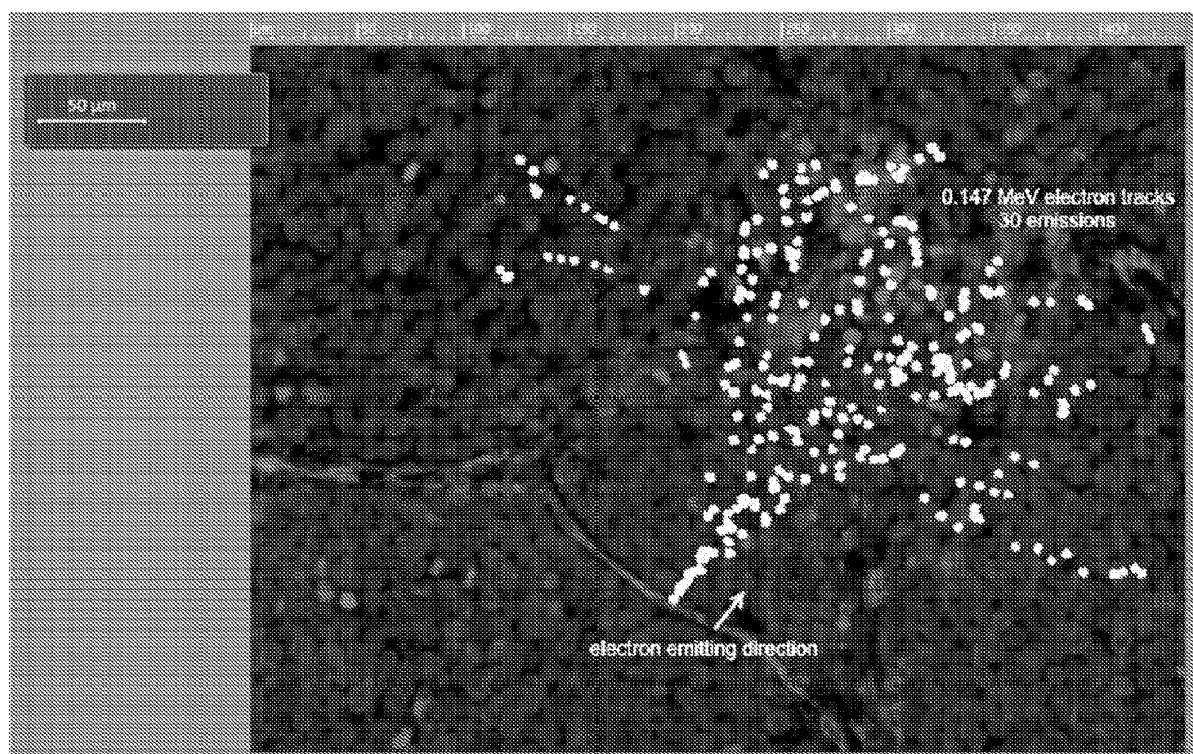
800F
FIG. 8F

900A
FIG. 9A



900B
FIG. 9B





1100
FIG. 11

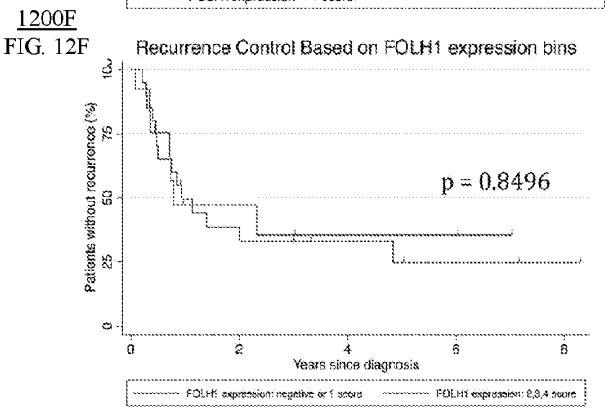
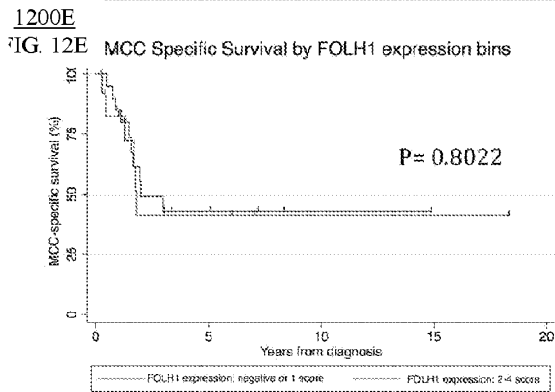
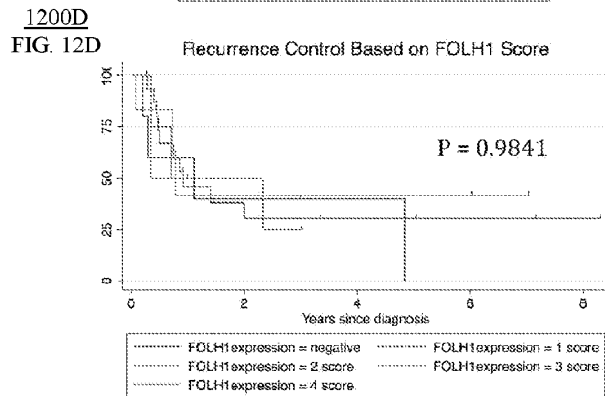
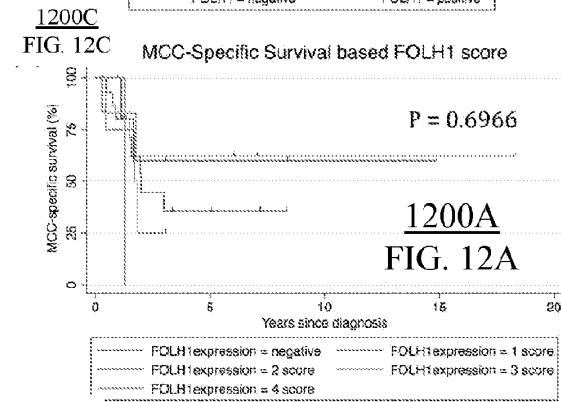
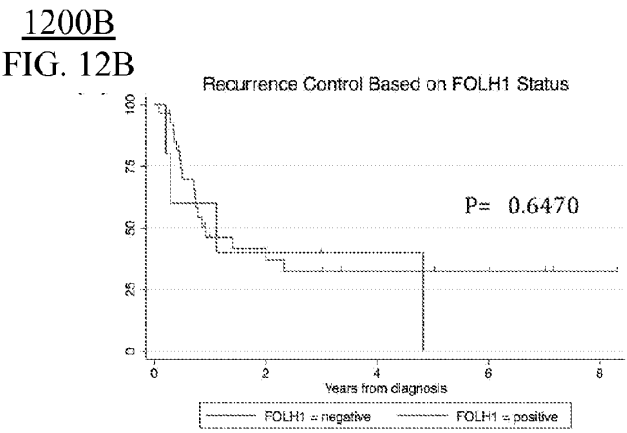
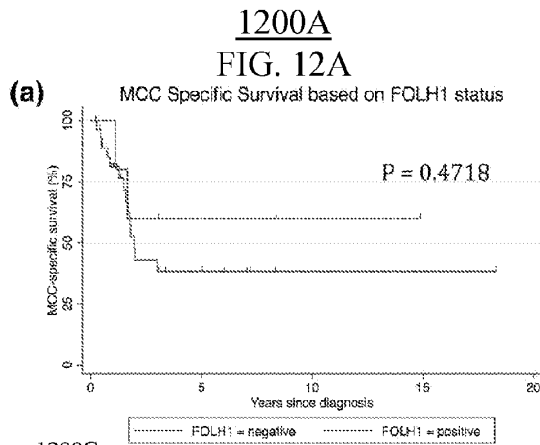
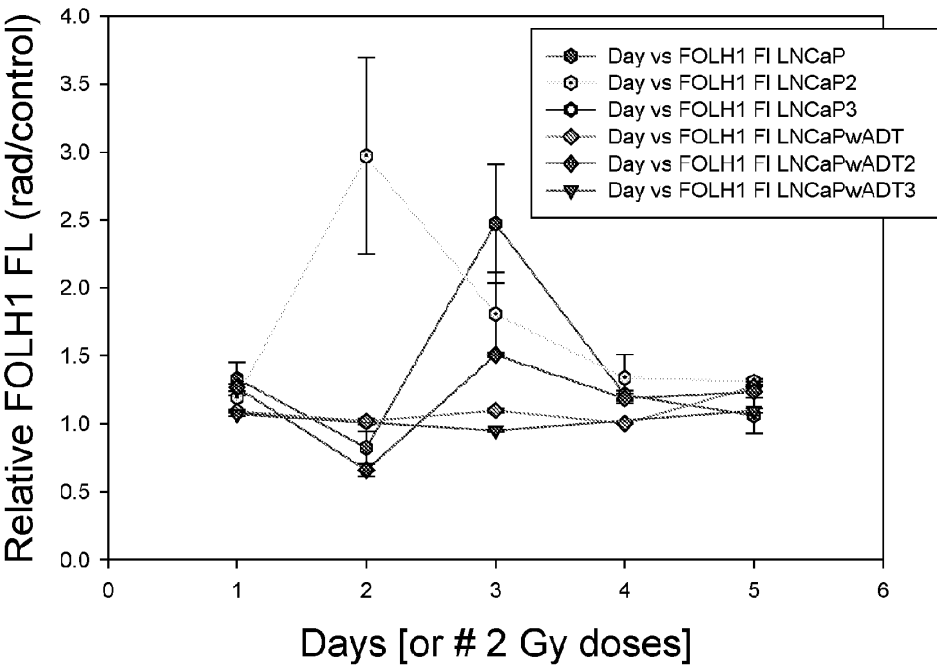


TABLE 1 Patient demographics

Characteristic	FOLH1 negative (n = 6)	FOLH1 positive (n = 29)	Total cohort (n = 35) p
Sex			
Male (n = 21)	3	18	0.664
Female (n = 14)	3	11	-
Age at diagnosis			
≥65 (n = 26)	3	23	0.162
<65 (n = 9)	3	6	-
Immunosuppressed			
Yes (n = 5)	0	5	0.539
No (n = 18)	4	14	-
Received RT to primary site			
Yes (n = 17)	4	13	1
No (n = 3)	0	3	-
Stage number			
IA (n = 1)	1	0	0.317
IB (n = 2)	0	3	-
IIA (n = 3)	0	2	-
IIB (n = 2)	0	2	-
IIIA (n = 7)	2	5	-
IIIB (n = 5)	0	5	-
IV (n = 3)	1	2	-
Sentinel lymph node biopsy performed?			
Yes (n = 13)	3	8	0.616
No (n = 9)	1	8	-
Site			
Head & neck (n = 14)	4	10	0.605
Trunk (n = 2)	0	2	-
Upper limb (n = 7)	0	7	-
Lower limb (n = 9)	2	7	-
Unknown primary (n = 1)	0	1	-
Received chemotherapy			
Yes (n = 6)	2	4	0.549
No (n = 14)	2	12	-
Local/Regional recurrence			
Yes (n = 8)	1	7	1
No (n = 14)	3	11	-
Draining LN recurrence			
Yes (n = 11)	1	10	1
No (n = 9)	2	7	-
Distant metastatic recurrence			
Yes (n = 13)	2	11	0.587
Characteristic	FOLH1 negative (n = 6)	FOLH1 positive (n = 29)	Total cohort (n = 35) p
No (n = 7)	2	5	-
MCC cells			
50%-75% (n = 7)	2	5	0.587
76%-100% (n = 13)	2	11	-

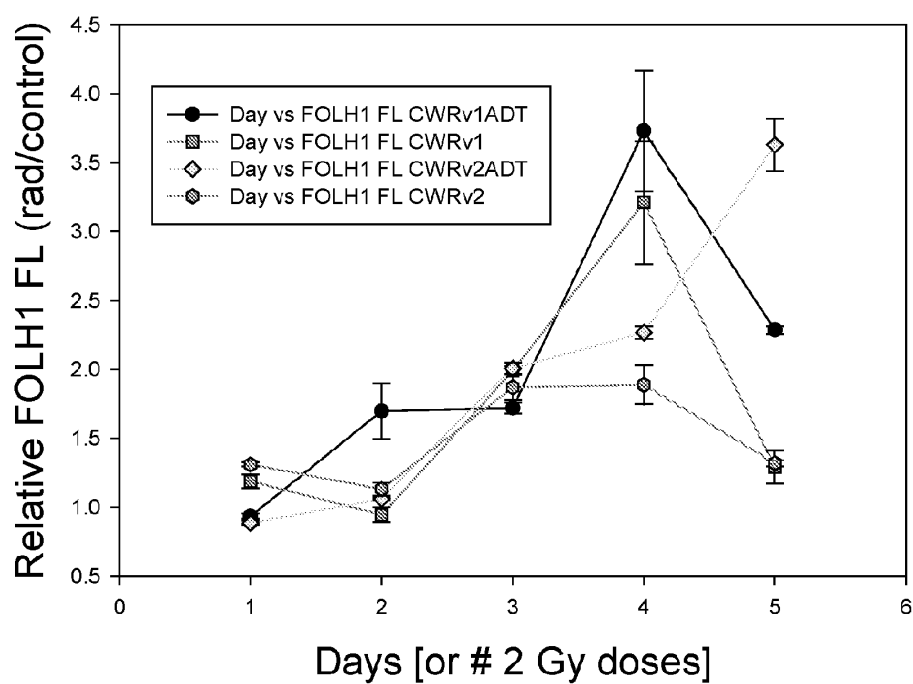
Abbreviations: FOLH1, folate hydrolase 1; LN, lymph node; MCC, Merkel cell carcinoma; RT, radiotherapy.

FOLH1 Fluorescence after daily 2 Gy doses



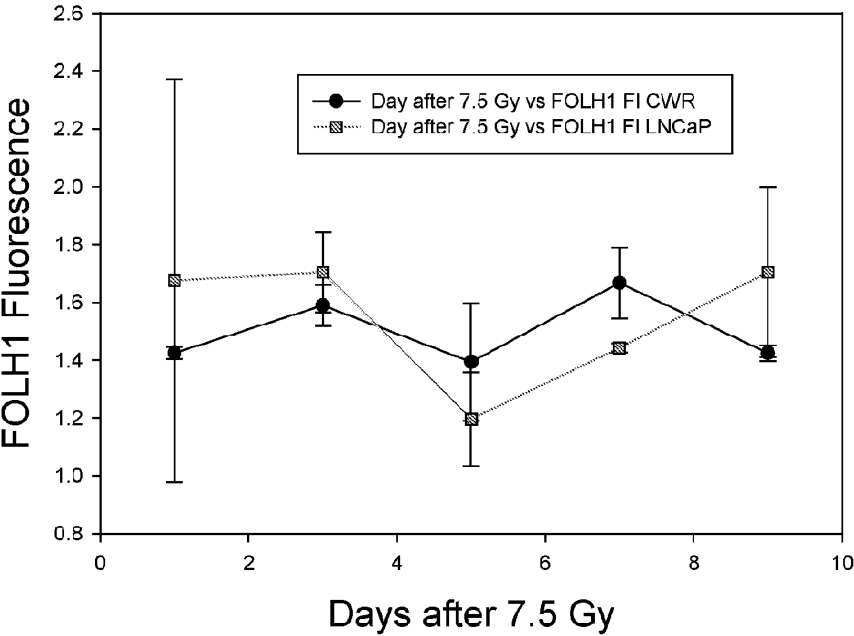
1400
FIG. 14

FOLH1 Fluorescence after daily 2 Gy doses

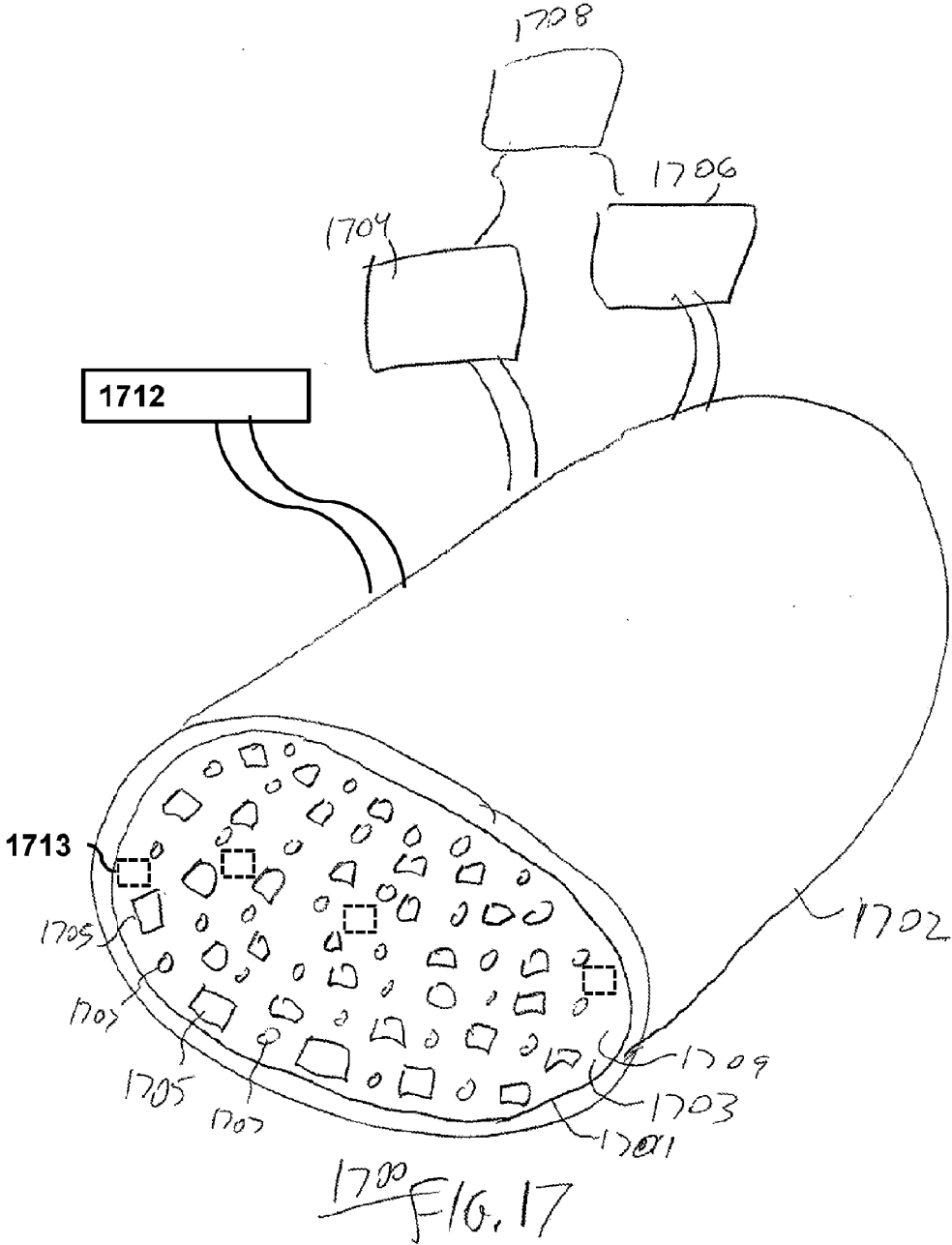


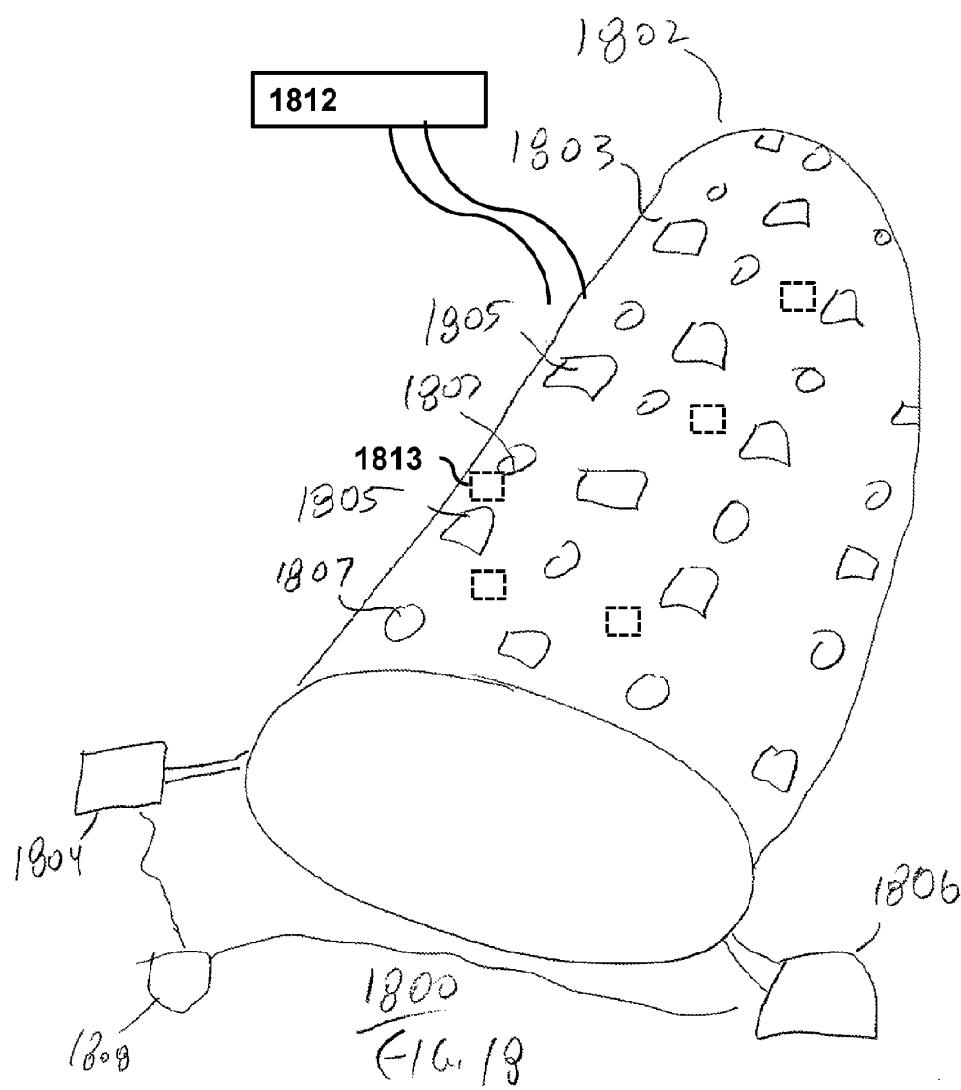
1500
FIG. 15

CWR and LNCaP cells FOLH1 Fluorescence
after a single 7.5 Gy dose

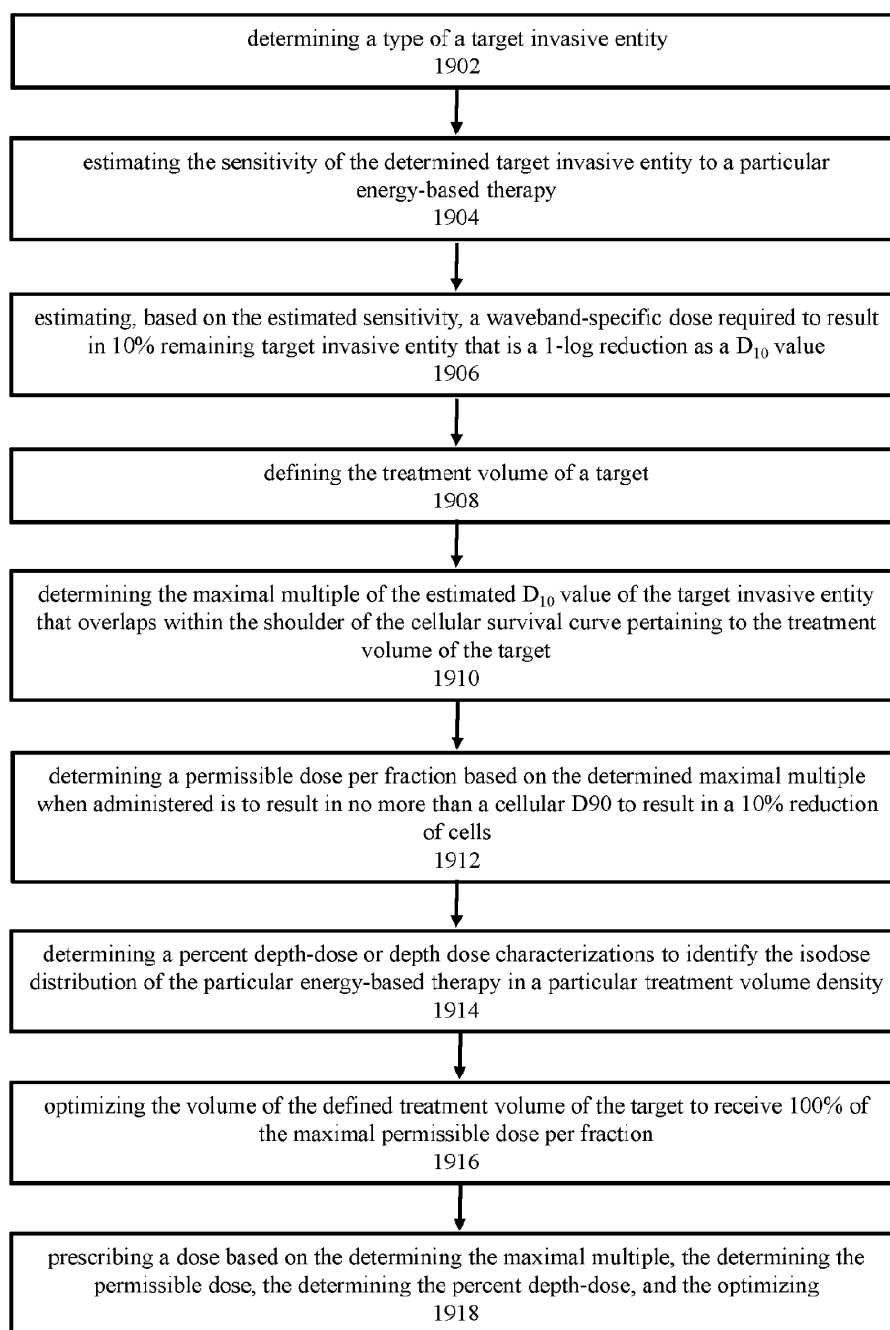


1600
FIG. 16



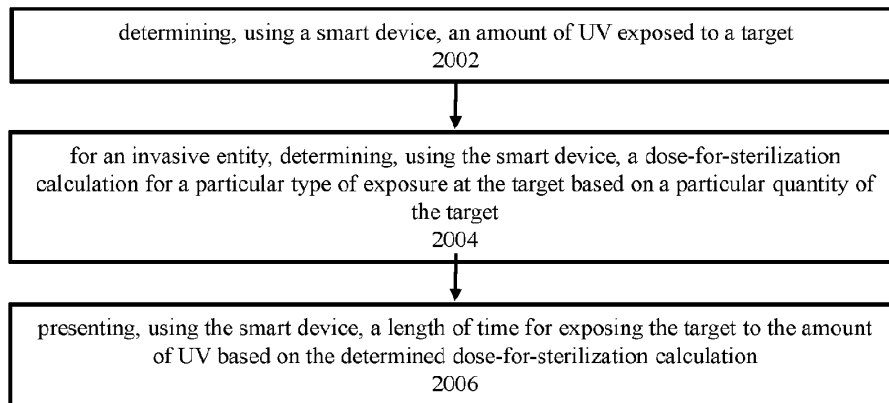


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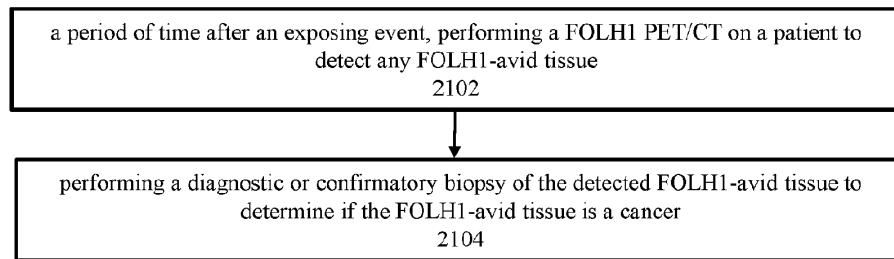
1900
FIG. 19

25 / 30



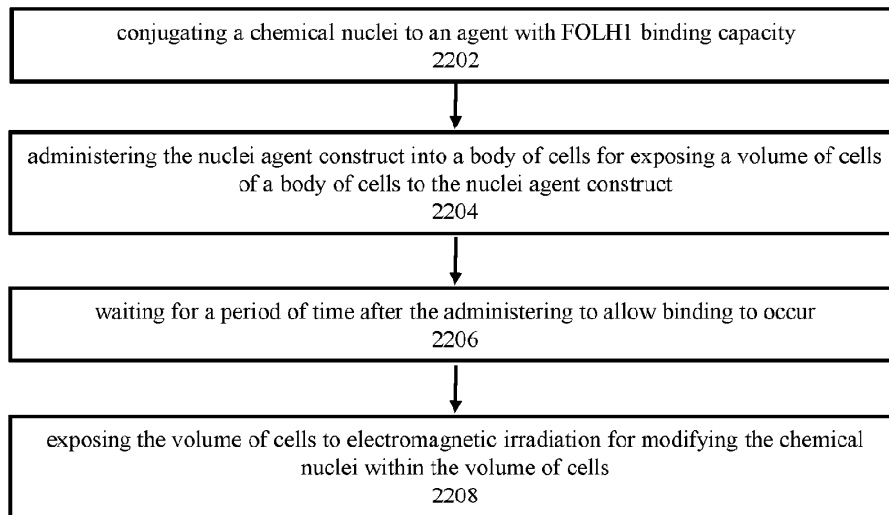
2000
FIG. 20

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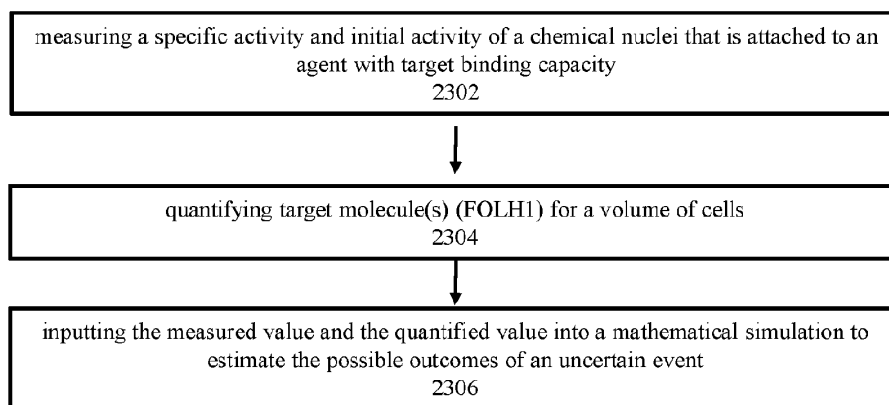
2100
FIG. 21

27 / 30



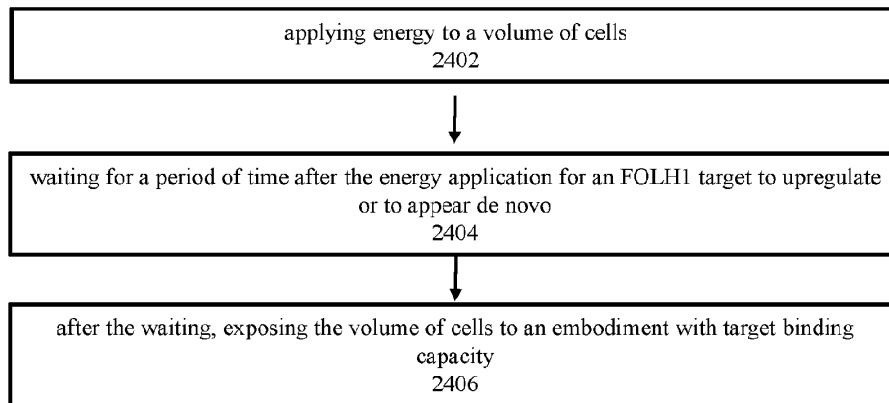
2200
FIG. 22

28 / 30



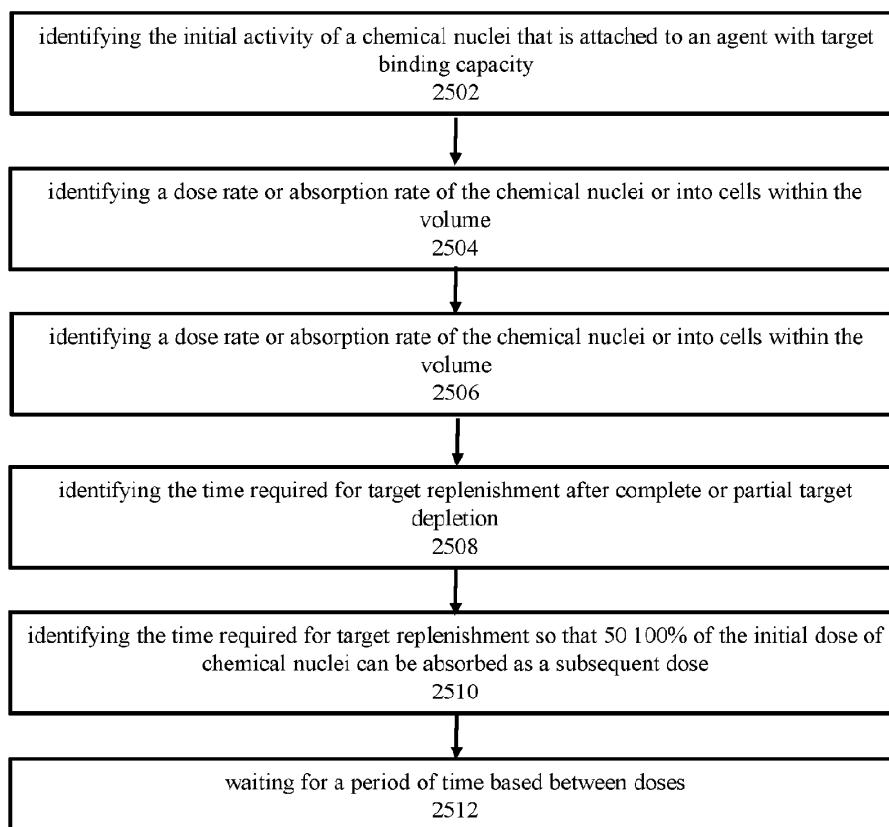
2300
FIG. 23

29 / 30



2400
FIG. 24

30 / 30



2500
FIG. 25