

ANNOTATIONS

Node [N]
 N1 --> N2 = edge & direction
 y = yes (= 100%)
 n = no
 {} = together
 (additional process at) [N]
 [] = closed boundaries
 [N1, N2] = from the beginning of N1 until the end of N2
 () = open boundaries
 (N1, N2) = after the end of N1 and before the beginning of N2
 && = "and", both together
 process [N1, N2... Nn] = process at all nodes

Comments/Explanations

ABC together

C <--> B

C --> AB

AC --> B

D <--> C

0_vessel infiltration

0_interactions with stroma

0_events at primary

A_EMT starts

A_lymph- & angio- genesis starts

A_ECM remodelling

B_EMT

B/D_lymph- & angio- genesis

C/E/F/G_lymph- & angio- genesis

E_(progressive) growth

E --> E1, E2, E3, E4...

F_interactions with stroma

G_interactions with stroma

something happens to cell

go somewhere

survival in circulation

energy perturbations

metastatic niche

trigger

angiogenesis

oligometastasis

interactions with stroma

wide metastasis

metastatic seeding (after A, before E)

EMT starts (after primary)

floating around (after A, before C)

adhesion (after A, before E)

angiogenesis (before B)

MET (before E)

	PROPOSED	PhDs (15)	MDs (7)	MD/PhDs (6)	All (28)
Primary [P]	y	12	7	6	25
Detachment [A]	y	11	6.5	6	23.5
Invasion [I]	y	10	5	3	18
Breach ECM [R]	y	9	5	2.5	16.5
Intravasation [V]	y	10.5	4	4	18.5
[B] = {I, R, V}	y	9	4	2	15
Motility [O]	y	9	6	2.5	17.5
Migration [T]	y	9	6	4	19
[C] = {O, T}	y	9	6	2.5	17.5
Extravasation [D]	y	7.5	4	3.5	15
Colonization [L]	y	13	8	6	27
Proliferation [X]	y	13	6	5	24
Angiogenesis [S]	y	12.5	6	4	22.5
[E] = {L, X, S}	y	12	6	4	22
Micrometastasis [F]	y	13	6	6	25
Macrometastasis [G]	y	12	6	5	23
P --> A	y				
A --> B	y				
B --> C	y				
C --> D	y				
D --> E	y				
E --> F	y				
F --> G	y				
{A, B, C}	n	3	2	0	5
A --> C --> B --> E	n	3	1	1	5
C --> {A, B} --> D	n	1	1	0	2
{A, C} --> B --> D	n	1	0	0	1
B --> D --> C --> E	n	0.5	0	0	0.5
(vessel infiltration) [P]	n	0	1	0	1
(interaction with stroma) [P]	n	1	1	0	2
(events at primary) [P]	n	1	0	0	1
(EMT starts) [A]	n	0.5	0	0	0.5
(lymph- & angio- genesis starts) [A]	n	0.5	0	0	0.5
(ECM remodelling) [A]	n	2	0	0	2
(EMT) [B]	n	0.5	0	0	0.5
(lymph- & angio- genesis) [B, D]	n	0.5	0	0	0.5
(lymph- & angio- genesis) [C, E, F, G]	n	1	0	0	1
(progressive growth) [E]	n	2	0	0	2
{E1, E2, E3... En} = [E]	n	1	0	0	1
(interactions with stroma) [F]	n	1	0	0	1
(interactions with stroma) [G]	n	2	0	0	2
(something happens to cell) (P, A)	n	0	0	2	2
go somewhere (P, A)	n	1	0	0	1
survival in circulation (C, D)	n	2	1	1	4
energy perturbations (C, D)	n	1	0	0	1
metastatic niche (D, E)	n	1	1	0	2
trigger (D, E)	n	0	1	0	1
angiogenesis (F, G)	n	0.5	0	1	1.5
oligometastasis [X] && G --> X	n	1	0	0	1
oligometastasis [X] && G --> X && (interactions with stroma) [X]	n	1	0	0	1
oligometastasis [X] && wide metastasis [Z] && G --> X --> Z	n	1	0	0	1
metastatic seeding (A, E)	n	0	1	0	1
EMT starts (P,)	n	1.5	0	0	1.5
floating around (A, C)	n	0	0	1	1
adhesion (A, E)	n	1	0	0	1
angiogenesis (, B)	n	1	0	0	1
MET (, E)	n	1	0	0	1

These were not explicitly commented, therefore no values.