

First Author	Year	Country	Optimized experimental animal model	Species	Strain	Gender	n	Flap donor site	Flap vascular pattern	Wound bed blood supply	Delayed flap	Flap composition	Flap innervation preserved	Flap survival rate (%)	Categorical flap survival (%)				Necrotic flap area (%)			
															CS	NCS	SN	CN	Average	Min.	Max.	
Nakayama (49)	1981	Japan	1	Rat	n/a	M	5	T/A	6	WV	Yes	FC	n/a	100	100	0	0	0	0	0	0	
			2	Rat	n/a	M	10	T/A	6	WV	No	FC	n/a	100	n/a	n/a	0	0	0	2	0	2.7
			3	Rat	n/a	M	20	T/A	4	WV	No	FC	n/a	100	n/a	n/a	n/a	0	7	0	0	21
Voukides (50)	1982	UK	4	Rat	SD	M+F	10	A/G	3	IB	Yes	FC	No	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Mundy (51)	1984	USA	5	Rabbit	n/a	n/a	5	E	1	B/C	Yes	FC	No	n/a	n/a	n/a	n/a	0	13	n/a	n/a	
			6	Rabbit	n/a	n/a	5	E	1	B/C	No	FC	No	n/a	n/a	n/a	n/a	0	24	n/a	n/a	
Ji (52)	1984	China	7	Rabbit	n/a	M+F	33	E	1	B/C	No	FC	No	100	50.9	0	5.1	0	n/a	0	n/a	
Beehary (53)	1984	France	8	Rat	n/a	n/a	5	A/G	3	WV	No	FC	n/a	100	100	0	0	0	0	0	0	
Baek (54)	1985	South Korea	9	Dog	M	n/a	36	H	10	WV	No	FC	No	100	100	0	0	0	0	0	0	
			10	Dog	M	n/a	10	H	10	IB	No	FC	No	100	100	0	0	0	0	0	0	
			11	Dog	M	n/a	2	H	7	WV	No	FC	No	100	100	0	0	0	0	0	0	
Nichter (12)	1985	USA	12	Rabbit	NZ	M	10	E	2	SE	No	B/C	No	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Thatté (55)	1987	India	13	Dog	M	M+F	14	H	10	WV	No	FC	No	91.7	n/a	n/a	n/a	0	8.33	n/a	n/a	100
Germann (20)	1987	Germany	14	Pig	Y	M	12	H	5	WV	No	FC	Yes	0	0	0	0	100	100	100	100	
Amarante (56)	1988	Portugal	15	Dog	n/a	n/a	5	H	10	WV	No	FC	Yes	100	100	0	0	0	0	0	0	
			16	Dog	n/a	n/a	5	H	9	WV	No	FC	Yes	100	100	0	0	0	0	0	0	
			17	Dog	n/a	n/a	4	H	7	WV	No	FC	Yes	100	100	0	0	0	0	0	0	
Fukui (57)	1988	Japan	18	Rabbit	n/a	n/a	20	E	10	B/C	No	FC	No	100	80	10	0	0	0	n/a	0	n/a
Sasa (58)	1988	USA	19	Dog	M	M+F	8	F	10	WV	No	FC	No	75	0	75	0	25	n/a	n/a	100	
			20	Rabbit	n/a	n/a	20	E	10	B/C	No	FC	No	100	90	0	10	0	n/a	0	n/a	
Inada (59)	1989	Japan	21	Rabbit	n/a	n/a	21	E	1	B/C	No	FC	No	100	85.7	0	14.3	0	n/a	0	n/a	
			22	Rat	W	M	10	A/G	9	WV	No	FC	n/a	90	80	n/a	n/a	10	n/a	0	100	
Noreldin (61)	1992	USA	23	Rat	W	M	10	A/G	9	IB	No	FC	n/a	100	90	n/a	n/a	0	n/a	0	n/a	
			24	Rat	W	M	20	A/G	10	WV	No	FC	n/a	90	75	n/a	n/a	10	n/a	0	100	
Takato (62)	1992	Canada	25	Rabbit	NZ	F	18	A/G	3	WV	No	FC	No	100	66.7	33.3	0	0	2.4	0	10	
Chow (63)	1992	China	26	Rat	SD	n/a	20	A/G	3	WV	No	FC	n/a	n/a	n/a	n/a	n/a	0	39.6	n/a	n/a	
Angel (64)	1992	USA	27	Dog	n/a	n/a	6	H	10	WV	No	FC	No	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Inada (65)	1992	Japan	28	Rabbit	n/a	n/a	10	E	10	B/C	No	FC	Yes	100	0	0	100	0	56	30	78	
			29	Rabbit	J	n/a	18	E	1	B/C	No	FC	n/a	100	n/a	n/a	0	0	0	n/a	n/a	n/a
Inada (66)	1993	Japan	30	Rabbit	J	n/a	17	E	2	B/C	No	FC	n/a	100	n/a	n/a	0	0	n/a	n/a	n/a	
			31	Rabbit	NZ	M+F	6	T/A	10	WV	No	FC	Yes	100	83.3	n/a	n/a	0	n/a	0	n/a	
Gençosmanoğlu (68)	1993	Turkey	32	Rabbit	n/a	n/a	10	T/A	10	WV	No	FC	Yes	100	80	20	0	0	n/a	0	n/a	
Ueda (69)	1993	Japan	33	Rabbit	n/a	n/a	15	E	10	SE	Yes	B/C	Yes	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Fukui (17)	1993	Japan	34	Rat	F	M	28	D	10	WV	No	MFC	Yes	85.7	85.7	0	0	14.3	14.3	0	100	
Takato (70)	1993	Japan	35	Rabbit	NZ	M	5	A/G	10	IB	No	FC	n/a	100	0	0	100	0	74.8	67.6	79.7	
Thatté (71)	1993	India	36	Rat	W	M	5	A/G	10	WV	No	FC	n/a	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Lenoble (72)	1993	France	37	Rat	W	M+F	15	A/G	10	WV	No	FC	Yes	26.7	0	20	6.7	73.3	77	10	100	
Smith (73)	1994	USA	38	Rabbit	NZ	n/a	10	E	10	B/C	No	FC	n/a	100	70	n/a	n/a	0	18.1	0	n/a	
			39	Dog	M	n/a	6	F	10	WV	No	FC	n/a	66.7	33.3	0	33.3	33.3	41.7	0	100	
			40	Dog	M	n/a	6	F	1	WV	No	FC	n/a	66.7	33.3	16.7	16.7	33.3	41.7	0	100	
Suzuki(75)	1994	Japan	42	Rabbit	J	M	6	E	1	B/C	No	FC	Yes	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Wolff (76)	1995	Germany	43	Rat	W	M	7	A/G	4	WV	No	FC	n/a	100	14.3	57.1	28.6	0	7	0	16	
Byun (77)	1995	USA	44	Rabbit	NZ	M	8	E	3	SE	Yes	B/C	Yes	100	0	100	0	0	5.9	n/a	n/a	
Xiu (78)	1996	China	45	Rabbit	n/a	n/a	20	T/A	10	WV	No	FC	n/a	n/a	n/a	n/a	n/a	0	7.68	n/a	n/a	
Pitetti (79)	1996	USA	46	Rabbit	NZ	n/a	16	E	1	B/C	No	FC	No	100	100	0	0	0	0	0	1	
Adamo (80)	1996	Italy	47	Rat	W	n/a	10	T/A	10	WV	No	FC	n/a	100	n/a	n/a	40	0	n/a	n/a	n/a	
			48	Rat	W	n/a	10	T/A	10	IB	No	FC	n/a	100	n/a	n/a	30	0	n/a	n/a	70	
Xiu (81)	1996	China	49	Rabbit	n/a	n/a	40	T/A	10	WV	No	FC	No	n/a	n/a	n/a	n/a	0	31.3	0	100	
Miles (82)	1997	Canada	50	Rat	SD	M	4	T/A	5	WV	No	FC	n/a	n/a	n/a	n/a	n/a	43	n/a	n/a		
Yilmaz (83)	1997	Turkey	51	Rabbit	NZ	n/a	12	E	10	SE	No	B/C	No	83.3	41.7	n/a	n/a	16.7	24.2	0	100	
Fukui (84)	1998	Japan	52	Rabbit	n/a	n/a	22	E	1	WV	Yes	FC	No	100	54.6	n/a	n/a	0	n/a	0	n/a	
Woo (85)	1998	South Korea	53	Dog	M	M+F	12	H	4	IB	No	FC	n/a	n/a	n/a	n/a	n/a	3.8	n/a	n/a		
Yuan (86)	1998	China	54	Rabbit	NZ	n/a	38	E	10	SE	No	B/C	No	100	n/a	n/a	n/a	0	n/a	n/a	n/a	
Atabay (87)	1998	Turkey	55	Rabbit	NZ	n/a	10	T/A	10	WV	No	FC	No	30.0	30	0	0	70	30	0	100	
Cho (88)	1998	South Korea	56	Rabbit	NZ	M	7	E	1	SE	Yes	B/C	Yes	100	0	0	100	0	40.3	22	56	
Mutaf (89)	1998	Japan	57	Rat	L	n/a	10	T/A	10	IB	Yes	FC	n/a	n/a	n/a	n/a	n/a	37.4	n/a	n/a		
Yilmaz (90)	1999	Turkey	58	Rabbit	NZ	n/a	12	E	1	IB	No	B/C	No	83.3	58.3	n/a	n/a	16.7	22	0	100	
Murata (91)	1999	Japan	59	Rabbit	n/a	n/a	10	E	10	WV	No	FC	Yes	100	10	n/a	n/a	0	17.5	0	100	
Yücel (92)	2000	Turkey	60	Rat	SD	M	32	A/G	10	WV	No	FC	No	0	0	0	0	100	100	100	100	
Tang (93)	2000	Taiwan	61	Rabbit	NZ	n/a	30	T/A	10	WV	No	MFC	No	100	n/a	n/a	n/a	0	n/a	0	n/a	
Wangcharoen (94)	2001	Thailand	62	Rat	W	M	9	T/A	3	IB	Yes	FC	No	n/a	n/a	n/a	n/a	n/a	2.5	n/a	n/a	
Saray (95)	2002	Turkey	63	Rabbit	n/a	n/a	10	E	10	IB	No	FC	No	100	n/a	n/a	n/a	0	41.9	n/a	n/a	
Chang (96)	2003	China	64	Rabbit	NZ	n/a	10	H	8	IB	No	FC	Yes	100	50	50	0	0	5.5	0	n/a	
Coruh (97)	2004	Turkey	65	Rabbit	NZ	M	10	E	10	B/C	No	FC	No	100	0	0	100	0	40	26.0	77.6	
			66	Rabbit	NZ	M	10	E	10	B/C	No	FC	No	100	0	0	100	0	42	19.7	55.4	
Lin (98)	2004	Taiwan	67	Rabbit	NZ	n/a	13	E	10	SE	No	B/C	No	100	n/a	n/a	n/a	0	6.6	0	55.6	
Baser (99)	2005	Turkey	68	Rat	SD	n/a	6	D	10	WV	Yes	FC	n/a	100	16.7	0	83.3	0	37.5	0	46	
Zhang (100)	2006	USA	69	Rat	SD	M	10	A/G	10	WV	No	FC	No	n/a	n/a	n/a	n/a	n/a	61	n/a	n/a	
Özyazgan (101)	2007	Turkey	70	Rabbit	NZ	n/a	7	E	10	B/C	No	FC	No	n/a	n/a	n/a	n/a	n/a	44	n/a	n/a	
Özyazgan (102)	2007	Turkey	71	Rabbit	NZ	M	14	E	10	B/C	No	FC	No	n/a	n/a	n/a	n/a	n/a	39	n/a	n/a	
Pitetti (103)	2008	Switzerland	72	Rabbit	NZ	n/a	15	E	1	WV	No	FC	No	100	n/a	n/a	0	0	0.6	0	n/a	
			73	Rabbit																		