DC subset	Specific markers	Sensitivity to γ- irradiation	Method	Turnover
Spleen pDC	MHC II^{+} CD11c^{int} PDCA1^{+} CD11b^{-} B220^{+} Gr-1^{+}	Radiosensitive	**% cells in cycle** **Parabiosis** % exchange Time of repopulation upon separation	0.3% [1] 16% exchange at 30 days. 3 days [1]
Spleen DCs		Radiosensitive	**% cells in cycle** **Parabiosis** % exchange Time of repopulation upon separation **Time of repopulation after toxin administration****	5% [1,2] 29% exchange at 30 days. 2 weeks [1] 6 days [3]
CD8^{+} DCs	Langerin^{+} CD205^{+} CD11b^{-}	Radiosensitive	**BrdU**: 50% labeling	1.5 days [4]
CD4^{+} DCs	Langerin^{-} DCIR2^{+} CD11b^{+}	Radiosensitive	**BrdU**: 50% labeling	2.9 days [4]
Thymic DCs	CD8α^{+} DCs	Radiosensitive	**BrdU**: 50% labeling **Parabiosis** % exchange	Biphasic: one population turnover in 3 days one population turnover in 10 days [4] Heterogenous exchange: One DC population exchange poorly (10% at 5 weeks) one population including CD8α^{+} and CD8α^{-} DCs exchange largely (50% at 8 weeks).
Peripheral LN	MHC II^{+} CD11c^{+} cells (includes resident DCs and migratory DCs).	Radiosensitive	**% cells in cycle** **BrdU : 50% labeling** **Parabiosis** % exchange Time of repopulation upon separation	5% [1] 3 days (except for cutaneous LN DCs: 12.5% DCs labeled in 3 days due to the presence of long lived LCs) [4] 29% exchange at 30 days. 2 weeks [1]
Epidermal LCs	Langerin^{+} MHC II^{+} CD11c^{lo} CD11b^{+} F4/80^{+}	Radioresistant in mice [5]	**% cell in cycle** **Parabiosis** % exchange **BrdU** **Time of repopulation after elimination in situ (Lethal irradiation and BM transplantation)** **Human allogeneic transplantation**	2-3% DC are cycling. Evidence for self renewal [5] No exchange at 6 months [5] 30-40% labeling in 3 weeks [6,7] Intravital imaging to measure influx or efflux of EGFP MHC II+ cells. LC half life: 53-78 days [8] 30-50% elimination in 7 days after x ray Local repopulation in 4 weeks , independent of circulating cells. Human LCs persist for more than a year in a limb graft [9] Human host LCs remain in the skin of patients more than a month after allogeneic hematopoietic cell transplant despite complete donor-derived chimerism in the blood [10]

DC subset	Specific markers	Sensitivity to γ- irradiation	Method	Turnover
Dermal DCs	Langerin$^-$ CD103$^-$ CD11b$^+$ (80% total dermal DCs)	Radiosensitive (20% radioresistant) [11]	**% cells in cycle** **Parabiosis** % exchange **BrdU** **Human allogeneic transplantation**	2-3% DCs are cycling. 20% exchange at 6 months [11] 60% labeling in 3 weeks [11] Human host dermal DCs remain in the skin of patients one month after allogeneic hematopoietic cell transplant despite complete donor-derived chimerism in the blood [11]
	Langerin$^+$ CD103$^+$ (20% total dermal DCs)	Radiosensitive [12-14]	**% cells in cycle** **Time of repopulation after toxin injection****	3-4% [12] 5 days [12]
Airway epithelial DCs (Rat)	Langerin$^+$ CD103$^+$ [15]	Radiosensitive [16]	**Time of repopulation Lethal irradiation and congenic BM transplantation)**	80% disappear by day 3 (20% remain) 7-10 days [16]
Intestinal DCs	CD103$^+$ and CD103$^-$ DCs	?	Thymidine injection in mesenteric lymphadenectomised rats	Labeled DCs appear in 3 days in the thoracic duct in [17]
Vaginal DCs	langerin$^+$ [18] [19] [20] [21]	Radiosensitive [18]	**BrdU : 50% labeling** **Time of repopulation after Lethal irradiation and congenic BM transplantation)** **Time of repopulation after toxin injection****	6 days [18] 13 days [18] 10 days [18]
Kidney DCs (Rat)	Langerin$^-$ CD103$^-$ CD11b$^+$ DCs and Langerin$^+$ CD103$^+$ DCs	Radiosensitive	**Time of repopulation after Lethal irradiation and BM transplantation**	7-20 days [22]
Heart DCs (Rat)		Radiosensitive	**Time of repopulation after Lethal irradiation and BM transplantation**	10-25 days [23,24]