Table S1 Detailed classification of left anterior segmental artery (A^3) and Figure ure's location

A^3 branches	Type	Sub-type	X's origins (ranked by sequence*)	Figure location	No. (%)
One					463 (72.91)
	M-type	A^3		Figure 2A	463 (72.91)
Two					164 (25.83)
	M-type				69 (10.87)
		A^3a+c, A^3b		Figure 2B	25 (3.94)
		A^3a+b, A^3c		Figure 2C	7 (1.10)
		A^3, A^3ci		Figure 2D	2 (0.31)
		A^3aii+b, A^3ai+c		Figure 2E	1 (0.16)
		A^3, A^3aii		Figure 2F	1 (0.16)
		A^3a+c, AX^3b	MLA	Figure 2G	7 (1.10)
		A^3, AX^3aii	MLA	Figure 2H	6 (0.94)
		AX^3a, A^3b+c	MLA	Figure 2I	5 (0.79)
		A^3a, AX^3b+c	MLA	Figure 2J	2 (0.31)
		AX^3a+b, A^3c	MLA	Figure 2K	1 (0.16)
		$A^3, AX3ai+AX^3aii\beta$	MLA	Figure 2L	1 (0.16)
		$A^3, AX^3aii\alpha$	MLA	Figure 2M	1 (0.16)
		AX^3a, A^3b+c	$A^{1+2}a+b$	Figure 2N	6 (0.94)
		A^3, AX^3ci	$A^{1+2}a+b$	Figure 2O	2 (0.31)
		A^3, AX^3cii	$A^{1+2}a+b$	Figure 2P	1 (0.16)
		AX^3a+c, AX^3b	$A^{1+2}a+b$/MLA	Figure 2Q	1 (0.16)
Three					1 (0.16)
	M-type				1 (0.16)
		AX^3a, A^3b, A^3c	MLA	Figure 2R	1 (0.16)
Two	M+IL type				95 (14.96)
		A^3, AX^3aii	IL-LPA	Figure 3A	14 (2.2)
		AX^3a, A^3b+c	IL-LPA	Figure 3B	13 (2.05)
		A^3, AX^3ai	IL-LPA	Figure 3C	3 (0.47)
		$A^3, AX^3ai\beta$	IL-LPA	Figure 3D	2 (0.31)
		$A^3, AX^3aii\beta$	IL-LPA	Figure 3E	1 (0.16)
		AX^3a, A^3b+c	$A^{1+2}c$	Figure 3F	9 (1.42)
		A^3, AX^3aii	$A^{1+2}c$	Figure 3G	5 (0.79)
		$A^3, AX^3ai\beta$	$A^{1+2}c$	Figure 3H	1 (0.16)
		A^3, AX^3aii	LA	Figure 3I	21 (3.31)
		AX^3a, A^3b+c	LA	Figure 3J	15 (2.36)
		A^3, AX^3ai	LA	Figure 3K	5 (0.79)
		$A^3, AX^3aii\alpha$	LA	Figure 3L	3 (0.47)
		$A^3, AX^3ai\beta$	LA	Figure 3M	2 (0.31)
		$A^3, AX^3aii\beta$	LA	Figure 3N	1 (0.16)
Three					7 (1.10)
	M+IL type				7 (1.10)
		AX^3a, AX^3b, A^3c	IL-LPA/MLA	Figure 3O	2 (0.31)
		A^3aii+c, AX^3ai, AX^3b	IL-LPA/MLA	Figure 3P	1 (0.16)
		AX^3a, AX^3b+ci, A^3cii	IL-LPA/MLA	Figure 3Q	1 (0.16)
		A^3, AX^3aii, AX^3aiii	IL-LPA/LA	Figure 3R	1 (0.16)
		AX^3ai, AX^3aii, A^3b+c	IL-LPA/LA	Figure 3S	1 (0.16)
		A^3aii+b, AX^3ai, A^3c	$A^{1+2}c$	Figure 3T	1 (0.16)

A: artery; LPA: left pulmonary artery; $^{1+2}$: apicoposterior segment ; MLA: mediastinal lingual artery; IL: interlobar; LA: lingular artery; ^{3}: anterior segment; X: mean abnormal origin; ^{1+2}a: apical subsegment; ^{1+2}b: posterior subsegment; ^{1+2}c: lateral subsegment; ^3a: lateral subsegment; ^3b: medial subsegment; ^3c: superior subsegment; characters "i", "ii", "iii" mean sub-subsegmental branches; characters "α", "β" mean sub-sub-subsegmental branches.

Table S2 Detailed classification of the lateral subsegment of the left anterior segmental artery (A3a) and Figure ures' location

A^3a branches	Type	Sub-type	Origins	Figure location	No. (%)
One					560 (88.19)
	M type				520 (81.89)
		A^3a	A^3	*Figure 2A*	286 (45.04)
		A^3a	A^3a+c	*Figure 2B*	84 (13.23)
		A^3a	A^3a+b	*Figure 2C*	135 (21.26)
		AX^3a	MLA	*Figure 2I*	6 (0.94)
		AX^3a	$A^{1+2}a+b$	*Figure 2N*	9 (1.42)
	IL type				40 (6.30)
		AX^3a	IL-LPA	*Figure 3B*	16 (2.52)
		AX^3a	$A^{1+2}c$	*Figure 3F*	9 (1.42)
		AX^3a	LA	*Figure 3J*	15 (2.36)
Two					74 (11.65)
	M type				13 (2.05)
		A^3ai, A^3aii	A^3	*Figure 2E*	4 (0.63)
		A^3ai, AX^3aii	LPA	*Figure 2F*	1 (0.16)
		A^3ai, AX^3aii	MLA	*Figure 2H*	6 (0.94)
		A^3a, $AX3ai+AX3aii\beta$	MLA	*Figure 2L*	1 (0.16)
		A^3aii, AX^3ai	MLA	*Figure 3P*	1 (0.16)
	MIL type				60 (9.45)
		A^3ai, AX^3aii	IL-LPA	*Figure 3A*	14 (2.2)
		A^3aii, AX^3ai	IL-LPA	*Figure 3C*	4 (0.63)
		A^3a, $AX^3ai\beta$	IL-LPA	*Figure 3D*	2 (0.31)
		A^3a, $AX^3aii\beta$	IL-LPA	*Figure 3E*	1 (0.16)
		A^3ai, AX^3aii	$A^{1+2}c$	*Figure 3G*	5 (0.79)
		A^3a, $AX^3ai\beta$	$A^{1+2}c$	*Figure 3H*	1 (0.16)
		A^3ai, AX^3aii	LA	*Figure 3I*	21 (3.31)
		A^3aii, AX^3ai	LA	*Figure 3K*	5 (0.79)
		A^3a, $AX^3aii\alpha$	LA	*Figure 3L*	3 (0.47)
		A^3a, $AX^3ai\beta$	LA	*Figure 3M*	2 (0.31)
		A^3a, $AX^3aii\beta$	LA	*Figure 3N*	1 (0.16)
		A^3aii, AX^3ai	$A^{1+2}c$	*Figure 3T*	1 (0.16)
	IL type				1 (0.16)
		AX^3ai, AX^3aii	IL-LPA/LA	*Figure 3S*	1 (0.16)
Three					1 (0.16)
	MIL type	A^3ai, AX^3aii, AX^3aiii	IL/LA	*Figure 3R*	1 (0.16)

A: artery; LPA: left pulmonary artery; $^{1+2}$: apicoposterior segment ; MLA: mediastinal lingular artery; IL: interlobar; LA: lingular artery; ^{3}: anterior segment; X: mean abnormal origin; $^{1+2}$a: apical subsegment; $^{1+2}$b: posterior subsegment; $^{1+2}$c: lateral subsegment; ^{3}a: lateral subsegment; ^{3}b: medial subsegment; ^{3}c: superior subsegment; characters "i", "ii", "iii" mean sub-subsegmental branches; characters "α", "β" mean sub-sub-subsegmental branch.