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Anatomical knowledge on lymphatic vessels from 1980 to the present

Erich Brenner

Summary



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- There was already a lot of knowledge about the lymphatic vessels in the 1980s, although many of them did not find their way into the lymphological teaching.
- However, the most significant novelty in the knowledge of the lymphatic vessels has since been repeatedly confirmed: the initial lymphatic vessels usually begin as a wide-meshed network. New immunohistochemical staining methods, especially LYVE-1 and D2-40, have contributed significantly to this.
- The role of the interstitium and the interstitial structures, formerly called pre-lymphatic spaces, has also changed.
- In addition, understanding of capillary filtration has also changed. The earlier assumption that the arterial leg of capillaries filters fluid into the interstitium while the venous leg of capillaries continuously resorbs most of the filtered fluid needs to be revised in favor of the concept of longitudinally decreasing but continuous filtration, thus giving rise to the problem of maintaining the balance of tissue fluid relocated alone to the lymphatic system.

Materials and Methods



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- Reference database: 4618 entries
 - 1296 entries published ≥ 1980
 - 331 entries containing „anatom*“ in keywords

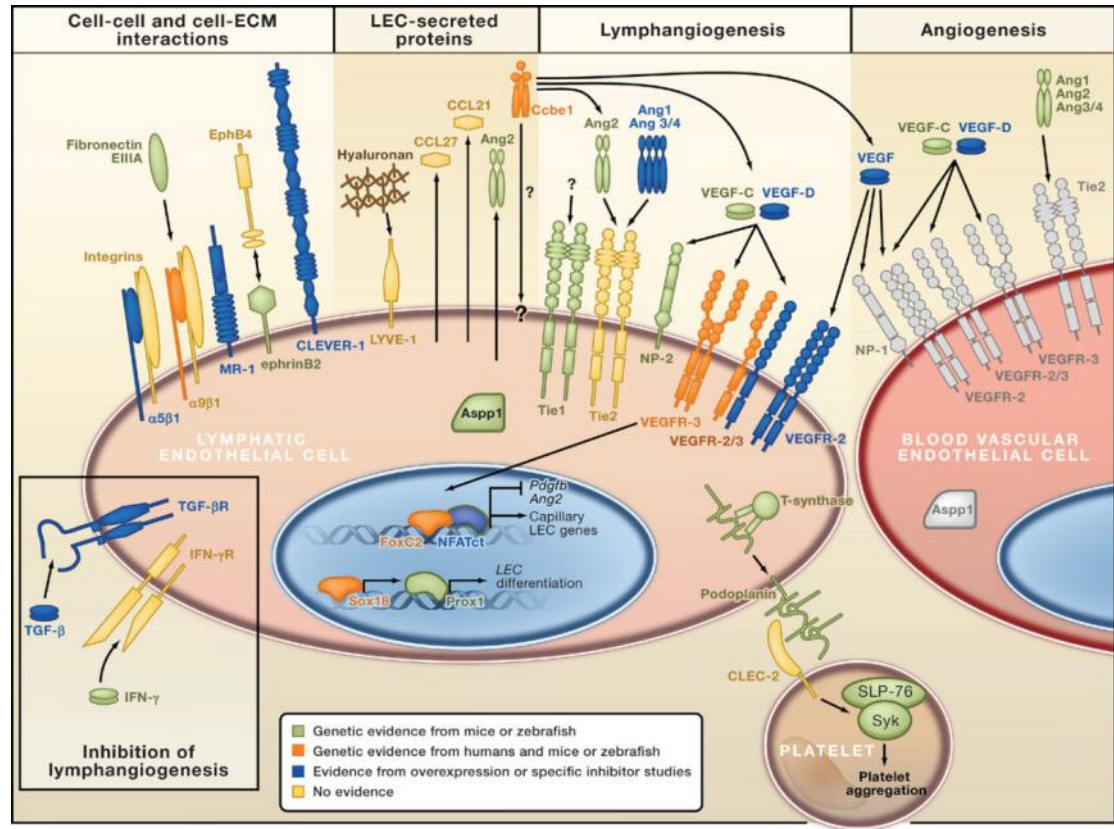
Main items



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- Lymphangiogenesis
- Pre-lymphatic pathway
- gLymphatics
- Lymph formation
- History
- Organ-specific topography and variability

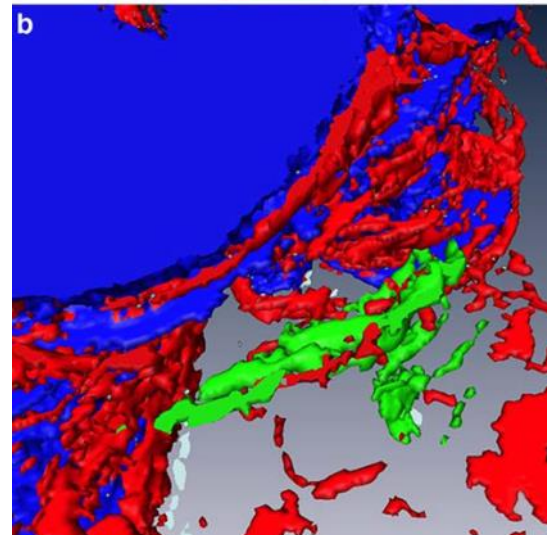
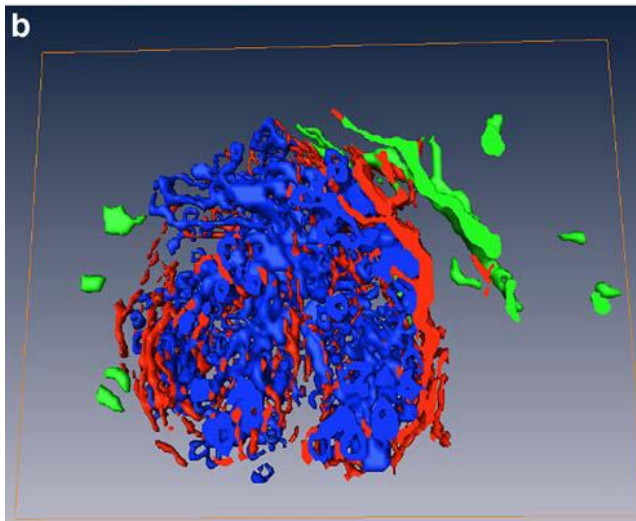
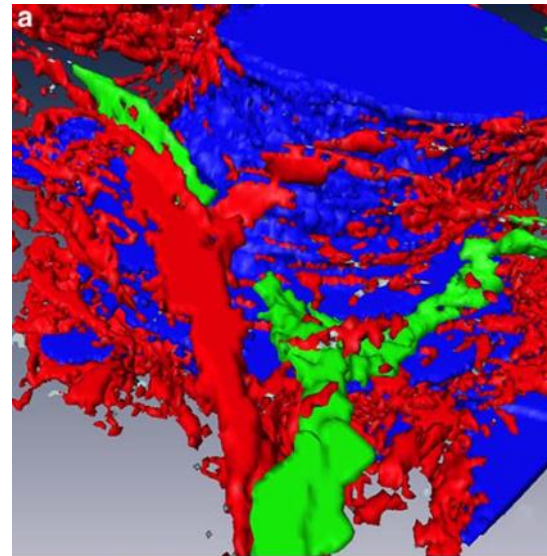
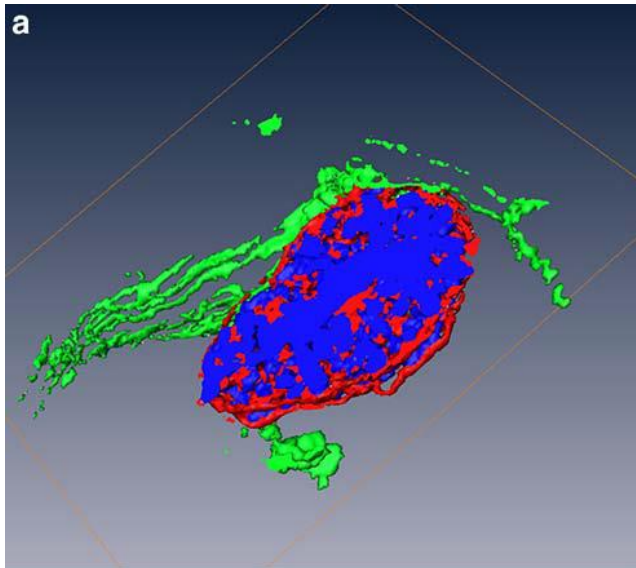
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Pre-lymphatic pathways



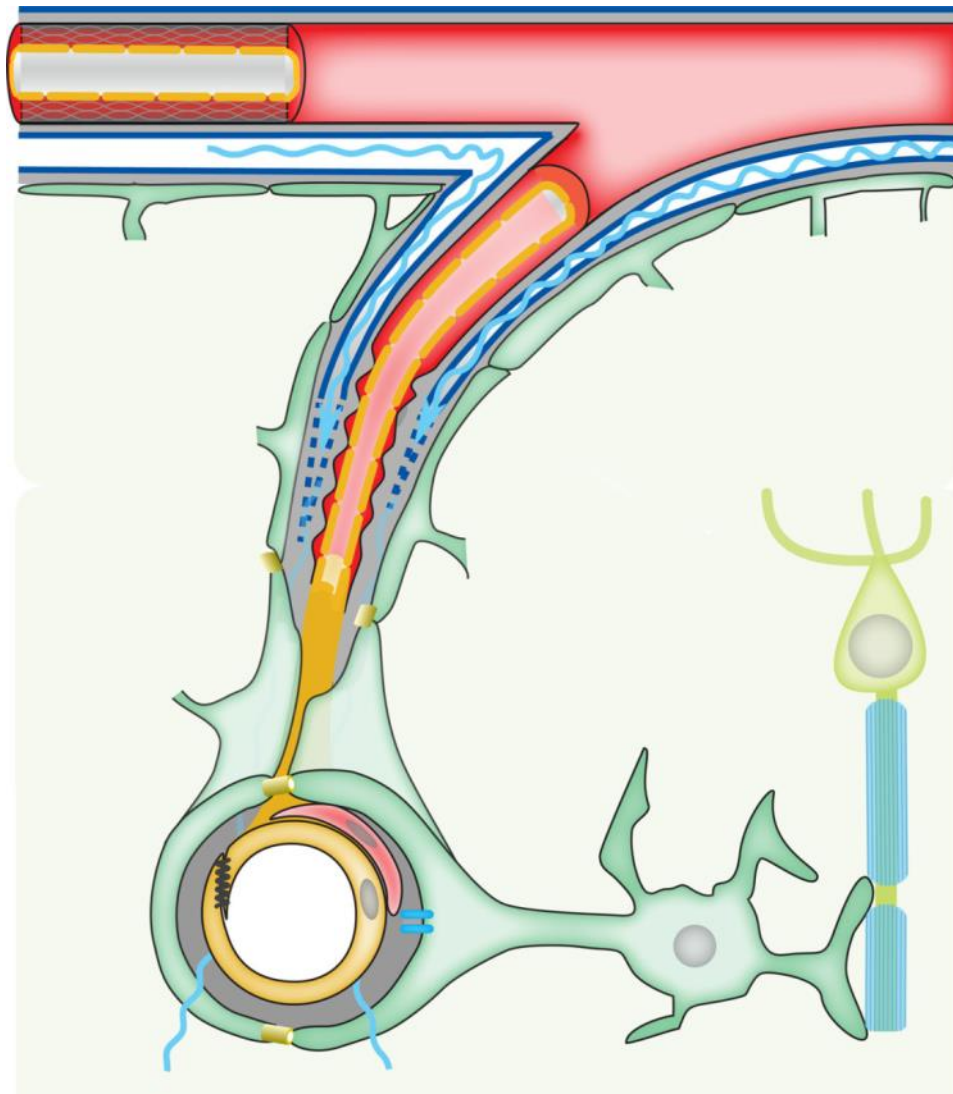
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gLymphatics



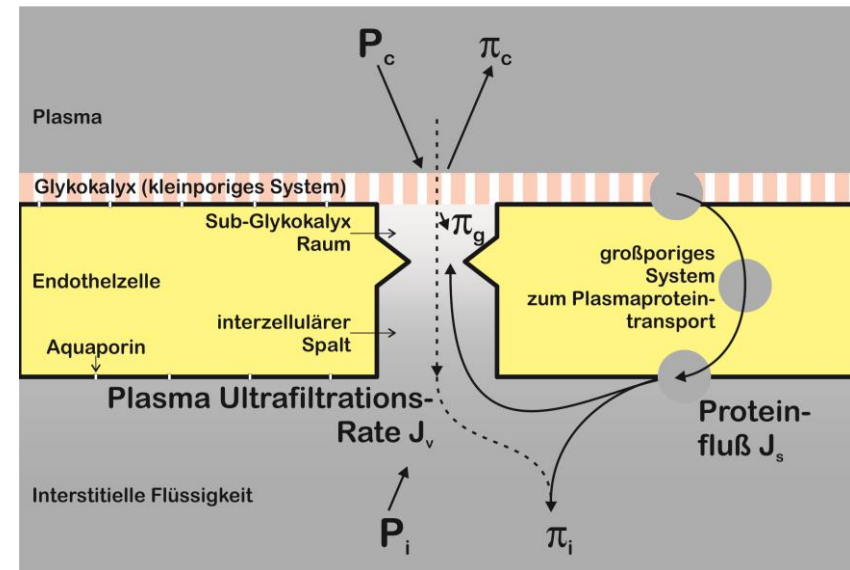
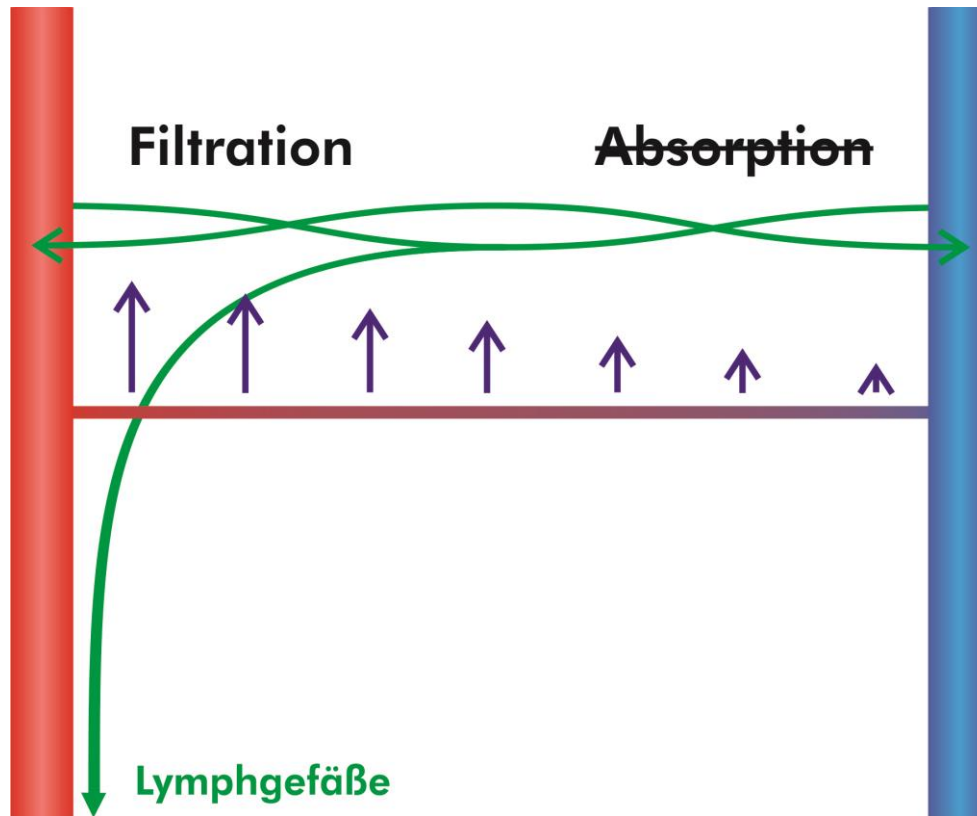
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Lymph formation



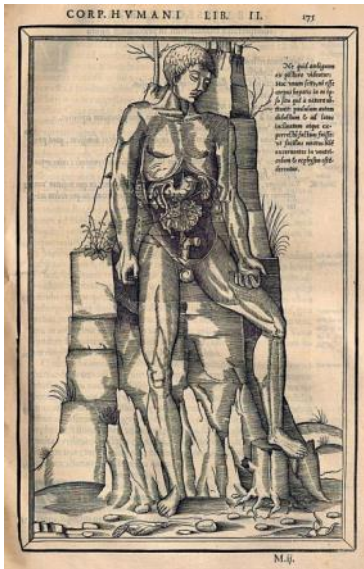
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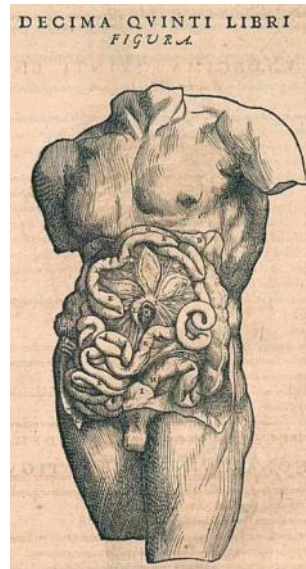
History



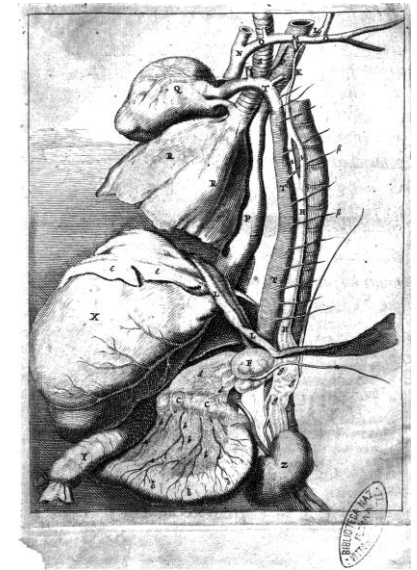
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Charles Èstienne (1545)

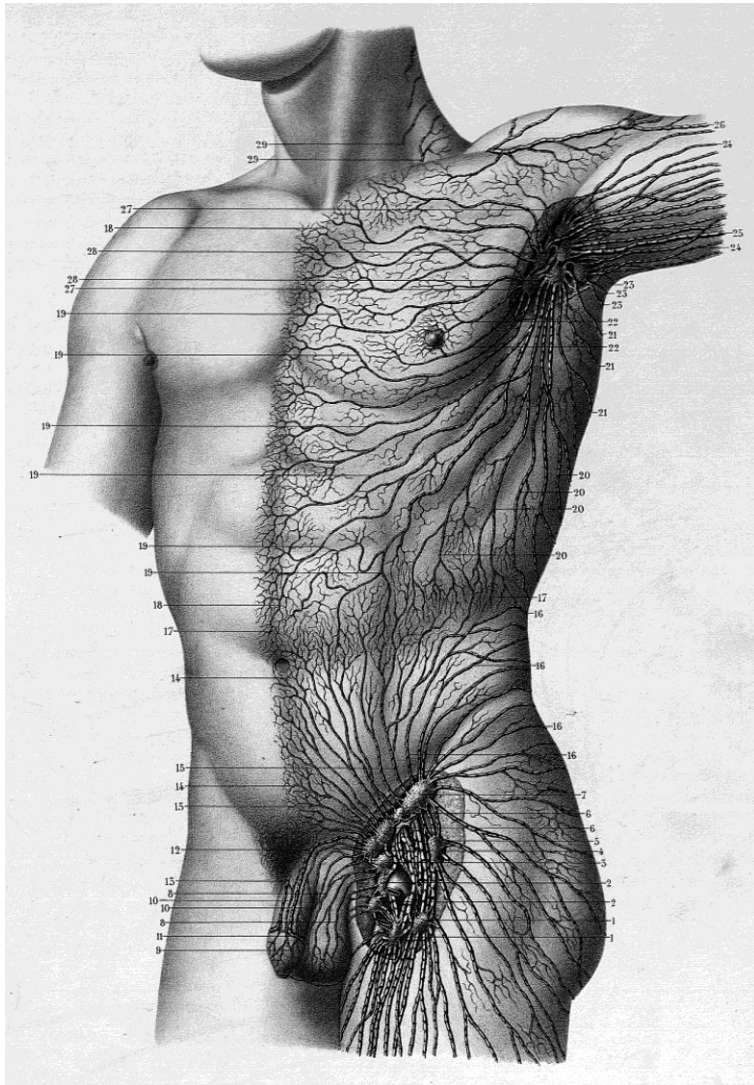


Andreas Vesalius (1555)

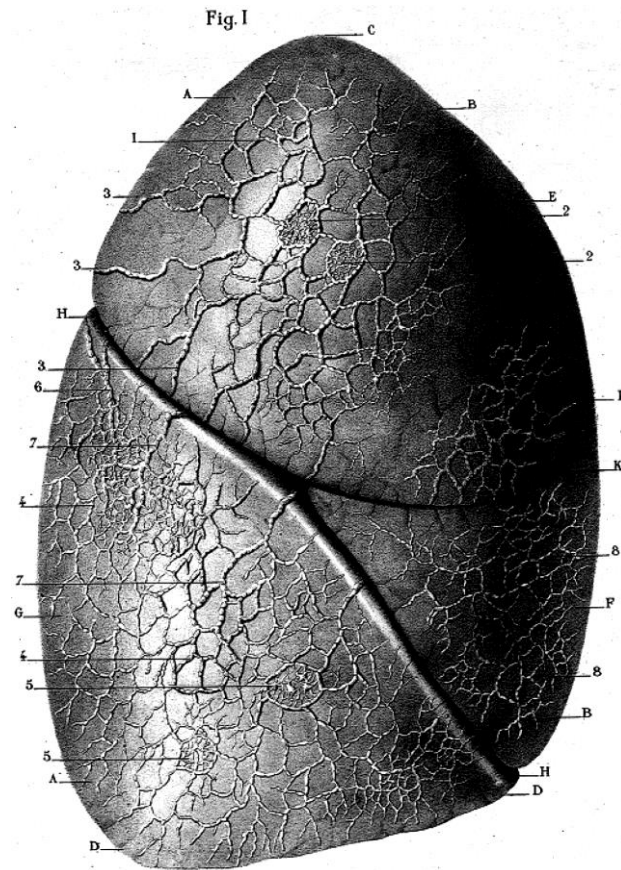


Jan van Horne (1652)

History



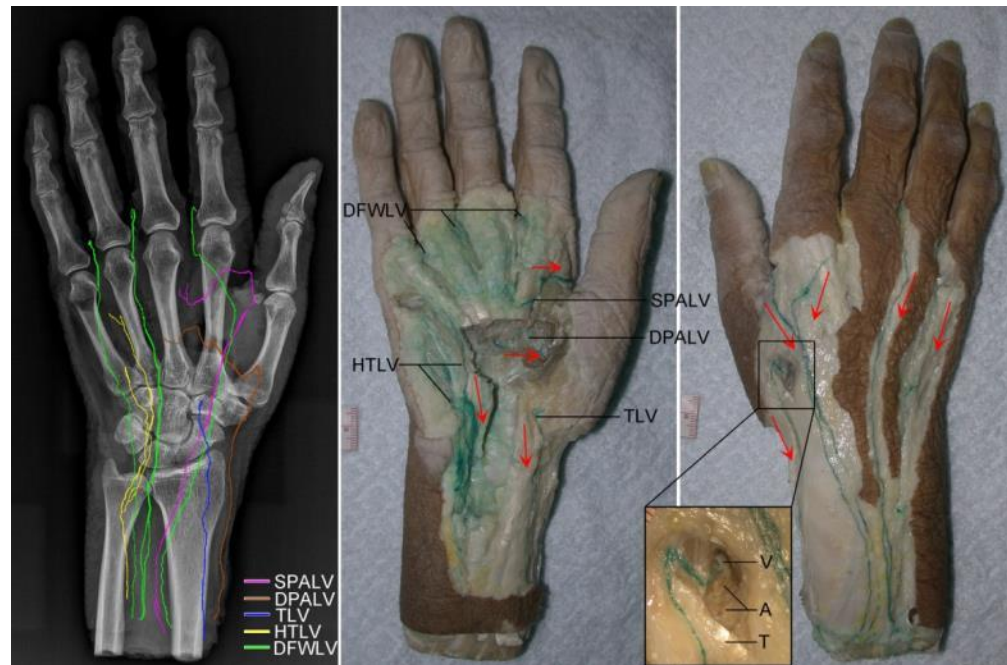
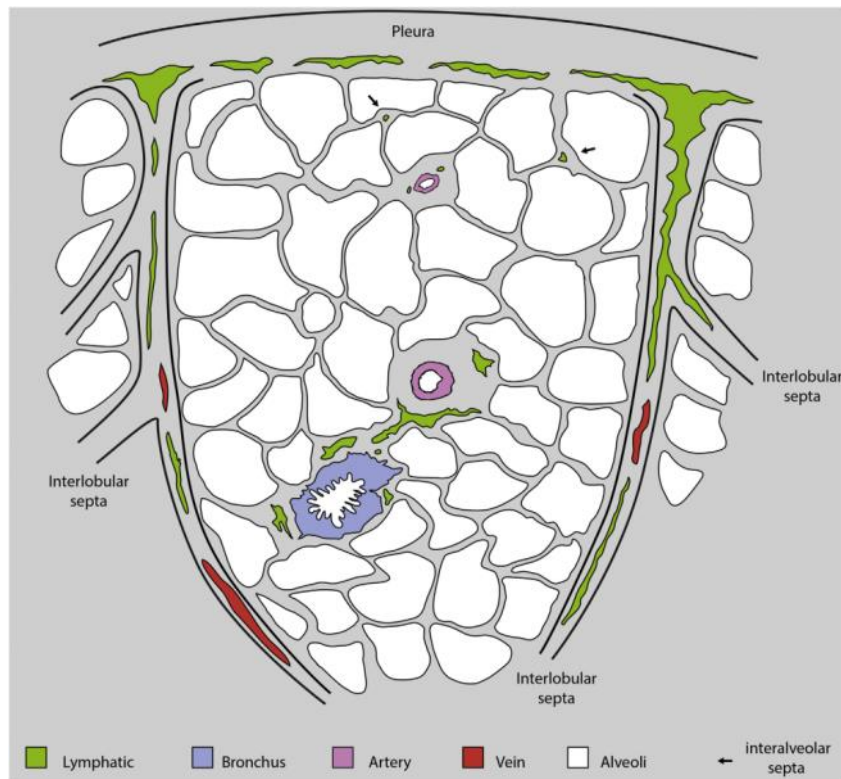
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Organ-specific topography and variability



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