

A Human Protein Atlas

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The new version 4.0 of the Human Protein Atlas (www.proteinatlas.org) have been generated with more than 6,000 validated antibodies corresponding to 5,000 human genes. The portal contains more than 5 million high-resolution images generated by immunohistochemistry and confocal microscopy. Each image has been manually annotated and curated by a certified pathologist to provide a knowledge base for functional studies and to allow searches and queries about protein profiles in normal and disease tissue. A new structure has been implemented with the inclusion of all predicted genes (approximately 20,500) with a visualization of the encoded protein characteristics for all genes. A new search tool is also launched in which advance queries can be performed, including searches for chromosome location, protein class and/or tissue specificity. Our results suggest that it should be possible to extend the protein atlas to a majority of all human proteins thus providing a valuable tool for medical and biological research.

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