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## Tales of PU

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Members of the [PU.1/Spi family](#) of Ets-type transcription factors play key roles in mammalian hematopoiesis and lymphoid development. Lymphocytes are found in jawed vertebrates, including [cartilaginous fish](#), but not in jawless vertebrates or invertebrates. In the January 16 [Proceedings of the National Academy of Science](#) Anderson *et al.* identified three PU.1 members in the cartilaginous fish *Raja eglanteria* (skate) (*Proc Natl Acad Sci USA* 2001, **98**:553-558). Phylogenetic analysis established that one of the skate sequences is the ortholog of PU.1, one the ortholog of related Spi-C, and the third a divergent Spi-D gene. The skate PU.1 genes are expressed specifically in hematopoietic tissues. The strong conservation between skate and mammalian PU.1 members underscores their critical role in the development of the immune system.

## References

1. Role of PU.1 in hematopoiesis.
2. Fishbase, [<http://www.fishbase.org>]
3. *Proceedings of the National Academy of Science*, [<http://www.pnas.org>]
4. Species Summary for *Raja eglanteria*, [<http://www.fishbase.org/SummarySpeciesSummary.cfm?genusname=Raja&speciesname=eglanteria>]