

LIST OF PUBLICATIONS

Johanna Myllyharju

1. Original articles and reviews in international scientific journals with referee practice

1. **Myllyharju J** & Nokkala S. Glycoproteins with N-acetylglucosamine and mannose residues in Chinese hamster metaphase chromosomes. *Hereditas* 124: 251-259, 1996.
2. **Myllyharju J** & Nokkala S. Fucosylated glycoproteins in Chinese hamster metaphase chromosomes. *Hereditas* 125: 285-288, 1996.
3. Lamberg A, Helaakoski T, **Myllyharju J**, Peltonen S, Notbohm H, Pihlajaniemi T & Kivirikko KI. Characterization of human type III collagen expressed in a baculovirus system. Production of a protein with a stable triple helix requires coexpression with the two types of recombinant prolyl 4-hydroxylase subunit. *J Biol Chem* 271: 11988-11995, 1996.
4. Annunen P, Helaakoski T, **Myllyharju J**, Veijola J, Pihlajaniemi T & Kivirikko KI. Cloning of the human prolyl 4-hydroxylase α subunit isoform α (II) and characterization of the type II enzyme tetramer. The α (I) and α (II) subunits do not form a mixed α (I) α (II) β ₂ tetramer. *J Biol Chem* 272: 17342-17348, 1997.
5. **Myllyharju J**, Lamberg A, Notbohm H, Fietzek PP, Pihlajaniemi T & Kivirikko KI. Expression of wild-type and modified pro α chains of human type I procollagen in insect cells leads to the formation of stable [α 1(I)]₂ α 2(I) collagen heterotrimers and [α 1(I)]₃ homotrimers but not [α 2(I)]₃ homotrimers. *J Biol Chem* 272: 21824-21830, 1997.
6. **Myllyharju J** & Kivirikko KI. Characterization of the iron- and 2-oxoglutarate-binding sites of human prolyl 4-hydroxylase. *EMBO J* 16: 1173-1180, 1997.
7. Vuorela A, **Myllyharju J**, Nissi R, Pihlajaniemi T & Kivirikko KI. Assembly of human prolyl 4-hydroxylase and type III collagen in the yeast *Pichia pastoris*: formation of a stable enzyme tetramer requires coexpression with collagen and assembly of a stable collagen requires coexpression with prolyl 4-hydroxylase. *EMBO J* 16: 6702-6712, 1997.
8. **Myllyharju J** & Nokkala S. Localization and identification of galactose/N-acetylgalactosamine and sialic acid-containing proteins in Chinese hamster metaphase chromosomes. *Cell Biol Int* 22: 85-89, 1998.
9. Nokelainen M, Helaakoski T, **Myllyharju J**, Notbohm H, Pihlajaniemi T, Fietzek PP & Kivirikko KI. Expression and characterization of recombinant human type II collagens with low and high contents of hydroxylysine and its glycosylated forms. *Matrix Biol* 16: 329-338, 1998.
10. Tandon M, Wu M, Begley TP, **Myllyharju J**, Pirskanen A & Kivirikko KI. Substrate specificity of human prolyl-4-hydroxylase. *Bioorg Med Chem Lett* 8: 1139-1144, 1998.
11. Passoja K, **Myllyharju J**, Pirskanen A & Kivirikko KI. Identification of arginine-700 as the residue that binds the C-5 carboxyl group of 2-oxoglutarate in human lysyl hydroxylase 1. *FEBS Lett* 434: 145-148, 1998.

12. Myers LK, Brand DD, Ye XJ, Cremer MA, Rosloniec EF, Bodo M, **Mylyharju J**, Helaakoski T, Nokelainen M, Pihlajaniemi T, Kivirikko K, Yang CL, Ala-Kokko L, Prockop DJ, Notbohm H, Fietzek P, Stuart JM & Kang AH. Characterization of recombinant type II collagen: arthritogenicity and tolerogenicity in DBA/1 mice. *Immunology* 95: 631-639, 1998.
13. Kivirikko KI & **Mylyharju J**. Prolyl 4-hydroxylases and their protein disulfide isomerase subunit. *Matrix Biol* 16: 357-368, 1998. (Invited review)
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18. **Mylyharju J** & Kivirikko KI. Identification of a novel proline-rich peptide-binding domain in prolyl 4-hydroxylase. *EMBO J* 18: 306-312, 1999.
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26. **Mylyharju J** & Kivirikko KI. Collagens and collagen-related diseases. *Ann Med* 33: 7-21, 2001. (Invited review)
27. Riihimaa P, Nissi R, Page AP, Winter AD, Keskiaho K, Kivirikko KI & **Mylyharju J**. Egg shell collagen formation in *Caenorhabditis elegans* involves a novel prolyl 4-hydroxylase expressed in spermatheca and embryos and possessing many unique properties. *J Biol Chem* 277: 18238-18243, 2002.
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