

LIST OF PEER REVIEWED PUBLICATIONS

Susanne Mandrup

1. **S. Mandrup**, P. Højrup, K. Kristiansen & J. Knudsen (1991). Gene synthesis, expression in *Escherichia coli*, purification and characterization of the recombinant bovine acyl-CoA-binding protein. *Biochem. J.* **276**, 817-823.
2. K. V. Andersen, S. Ludvigsen, **S. Mandrup**, J. Knudsen, & F. M. Poulsen (1991). The Secondary Structure in Solution of Acyl-Coenzyme A Binding Protein from Bovine Liver Using ^1H Nuclear Magnetic Resonance Spectroscopy. *Biochemistry* **30**, 10654 - 10663.
3. H. O. Hansen, P. H. Andreasen, **S. Mandrup**, K. Kristiansen & J. Knudsen. (1991). Induction of acyl-CoA-binding protein and its mRNA in 3T3-L1 cells by insulin during preadipocyte-to-adipocyte differentiation. *Biochem. J.* **277**, 341-344.
4. **S. Mandrup**, R. Hummel, S. Ravn, G. Jensen, P.H. Andreasen, N. Gregersen, J. Knudsen & K. Kristiansen (1992). Acyl-CoA-binding Protein/Diazepam-binding Inhibitor Gene and Pseudogenes. A Typical Housekeeping Gene Family. *J. Mol. Biol.* **228**, 1011-1022.
5. **S. Mandrup**, R. Jepsen, H. Skøtt, J. Rosendal, P. Højrup, K. Kristiansen & J. Knudsen (1993). Effect of heterologous expression of acyl-CoA-binding protein on acyl-CoA level and composition in yeast. *Biochem. J.* **290**, 369-374.
6. **S. Mandrup**, P. H. Andreasen, J. Knudsen & K. Kristiansen (1993). Genome organization and expression of the rat ACBP gene family. *Mol. and Cell. Biochem.* **123**, 55-61.
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9. J. B. Krøll, J. Nøhr, N. Gregersen, K. Kristiansen and **S. Mandrup** (1996). Structure of the rat gene encoding the multifunctional acyl-CoA-binding protein: Conservation of intron 1 sequences in rodents and man. *Gene* **173**, 239-240.
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11. **S. Mandrup**, T. M. Loftus, O. A. Macdougald, F. P. Kuhajda and M. D. Lane (1997). The obese gene is expressed at *in vivo* levels in implanted 3T3-F442A cells. *Proc. Natl. Acad. Sci. USA.* **94**, 4300-4305.
12. **S. Mandrup** and M. Daniel Lane (1997). Regulating adipogenesis. *J. Biol. Chem.* **272**, 5367-5370.
13. C.-S. Hwang, T.M. Loftus, **S. Mandrup** and M.D. Lane (1997). Adipocyte differentiation and leptin expression. *Ann. Rev. Cell Biol. & Dev.* **13**, 231-259.
14. **S. Mandrup**, R. V. Sørensen, T. Helledie, J. Nøhr, T. Baldursson, C. Gram, J. Knudsen and K. Kristiansen (1998). Inhibition of 3T3-L1 adipocyte differentiation by expression of acyl-CoA binding protein antisense RNA. *J. Biol. Chem.* **273**, 23897-23903.

15. S. Kussmann-Gerber, I. Kratchmarova, **S. Mandrup** and K. Kristiansen (1999). A micro-column-based procedure for analysis of protein-protein interaction. *Analytical Biochemistry* 271, 102-105.
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61. D. Neess*, M. Bloksgaard*, S. Bek, A.-B. Marcher, I.C. Elle, T. Helledie, M. Due, V. Pagmantidis, B. Finsen, J. Wilbertz, M. Kruhøffer, N. Færgeman, **S. Mandrup** (2011) Disruption of the acyl-CoA binding protein results in delayed hepatic adaptation to the metabolic changes at weaning. *J. Biol. Chem.* 286, 3460-3472. (*equal contribution)
62. S. F. Schmidt*, M. Jørgensen*, Y. Chen, R. Nielsen, A. Sandelin α , **S. Mandrup** α (2011) Cross species comparison of C/EBP α and PPAR γ profiles in mouse and human adipocytes reveals interdependent retention of binding sites. *BMC Genomics* 12: 152, 1-16 (*equal contribution, α co-correspondence).
63. C. J. Villanueva, H. Waki, C. Godio, R. Nielsen, W.-L. Chou, L. Vargas, K. Wroblewski, C. Schmedt, R. Boyadjian, **S. Mandrup**, A. Hevener, E. Saez, P. Tontonoz (2011) TLE3 is a dual function transcriptional coregulator of adipogenesis. *Cell Metabolism* 13, 413-27.
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65. R. Siersbæk, R. Nielsen, S. John, M.-H. Sung, S. Baek, A. Loft, G. L. Hager β , **S. Mandrup** β (2011) Extensive chromatin remodeling and establishment of transcription factor 'hotspots' during early adipogenesis. *EMBO J* 30, 1459-72 (highlighted in 'Have You Seen' in the same issue by D. Steger and M.A. Lazar) (β co-correspondence).
66. M. M. Aagaard, R. Siersbæk, **S. Mandrup** (2011) Molecular basis for gene-specific transactivation by nuclear receptors. *BBA-Molecular Basis of Disease* 1812, 824-35.

67. R. Siersbæk, R. Nielsen, **S. Mandrup** (2012) Transcriptional networks and chromatin remodeling controlling adipogenesis. *Trends Endocrinol. Metab.* **23**, 56-64. (Featured article and front cover, rated in top 10 articles in 2012 by the Editorial Board)
68. M. Børgesen, T. Å. Pedersen, S. vanHeeringen, B. Gross, Hagenbeek, C. Bindsbøll, S. Caron, F. Lalloyer, K. Steffensen, H. Nebb, J.-Å. Gustafsson, H. Stunnenberg, B. Staels, **S. Mandrup** (2012) Genome-wide profiling of LXR, RXR and PPAR α in mouse liver reveals extensive sharing of binding sites. *Mol. Cell. Biol.* **32**, 852-867.
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73. J.V. Stidsen, R. Khorooshi, M.K.U. Rahbek, K.L. Kirketerp-Møller, P.B.L. Hansen, P. Bie, K. Kejlving, **S. Mandrup**, S. Hawgood, O. Nielsen, C.H. Nielsen, T. Owens, U. Holmskov, G.L. Sørensen (2012) Surfactant Protein D deficiency in mice is associated with hyperphagia, altered fat deposition, insulin resistance, and increased basal endotoxemia. *PLoSOne* **7**, e35066.
74. T. Obsen, N. J. Faergeman, S. Chung, K. Martinez, Semone Gobern, O. Loreau, M. Wabitsch, **S. Mandrup**, M. McIntosh (2012) Trans-10, cis-12 Conjugated linoleic acid decreases de novo lipid synthesis in human adipocytes. *J. Nutr. Biochem.* **23**, 580-90.
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76. M.S. Siersbæk*, A. Loft*, M. M. Aagaard*, R. Nielsen, S. F. Schmidt, N. Petrovic, J. Nedergaard, **S. Mandrup** (2012) Genome-wide profiling of PPAR γ in primary epididymal, inguinal and brown adipocytes reveals depot-selective binding correlated with gene expression. *Mol. Cell Biol.* **32**, 3452-3463. (Selected for spotlight in the issue)
77. L. L.C. Poulsen, M. Siersbæk, **S. Mandrup** (2012) PPARs: Fatty acid sensors controlling metabolism. *Seminars - Cell Dev. Biol.* **23**, 631- 639.
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83. D. Neess, S. Bek, A.-B. Marcher, M. Bloksgaard, N. Færgeman, **S. Mandrup** (2013) Delayed hepatic adaptation to weaning in ACBP-/- mice is caused by disruption of the epidermal barrier. *Cell Reports* **5**, 1403-1412.
84. M. Bloksgaard, D. Neess, N.J. Færgeman, **S. Mandrup** (2014) Acyl-CoA Binding Protein and Epidermal Barrier Function. *BBA – Mol. Cell Biol. Lipids* **1841**, 369-376.
85. D.P. Christensen, C. Gysemans, M. Lundh, M.S. Dahllöf, D.Noesgaard, S.F. Schmidt, **S. Mandrup**, N. Birkbak, C.T. Workman, L. Piemonti, L. Blaabjerg, V. Monzani, G. Fossati, P. Mascagni, S. Paraskevas, R.A. Aikin, N. Billestrup, L. G. Grunnet, C.A. Dinarrello, C. Mathieu, T. Mandrup-Poulsen (2014) Lysine deacetylase inhibition prevents diabetes by chromatin-independent immunoregulation and β -cell protection. *Proc. Natl. Acad. Sci.* **111**, 1055–1059
86. M.S. Madsen, R. Siersbæk, M. Børgesen, R. Nielsen, **S. Mandrup** (2014) Peroxisome proliferator activated receptor γ and C/EBP α synergistically activate key metabolic adipocyte genes by assisted loading. *Mol. Cell. Biol.* **34**, 939-954.
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