Susanne Mandrup - Curriculum Vitae

Susanne Mandrup is Director of the Center of Excellence in Functional Genomics and Tissue Plasticity (https://www.sdu.dk/en/atlas) and the Center of Adipocyte Signaling (www.sdu.dk/adiposign) and heads the Functional Genomics and Metabolism Research Unit (www.sdu.dk/bmb/functionalgenomics). Her group (http://www.sdu.dk/mandrupgroup) focuses on understanding the transcriptional networks regulating differentiation and function of adipocytes as well as the cellular and molecular mechanisms adipose tissue plasticity. The group has contributed significantly to the current understanding of the interplay between transcription factors, chromatin and metabolism in the regulation of adipocyte gene expression.

Personal information

Date of birth	June 3, 1962
Nationality	Danish
Family status	Married. Two children born 1989 and 1992.
Address	Præstevejen 8, Østrup, 5450 Otterup

Education

1988	Master of Science in Molecular Biology, Odense University
1992	PhD in Biochemistry, Odense University

Employments

1992-95	Post doc at Dept. Biochemistry and Dept. Molecular Biology, Odense University
1995-96	Post doc in Prof. M. Daniel Lane's lab, Johns Hopkins University, Baltimore, USA
1996-1999	Assistant Professor Dept. Molecular Biology, Odense University
1999-2008	Associate Professor Dept. Biochemistry and Molecular Biology, SDU
2008 -	Professor Dept. Biochemistry and Molecular Biology, SDU

Professional courses

2006-07	Course in research management, Copenhagen Business School

Awards and honors

1994	The Simon Spies Foundation's Natural Science Research Prize
2007	Marie Lønggaard's Award for excellence in research and teaching
2012	Niels Schwartz Sørensen Award for Diabetes Research
2012	Sapere Aude Advanced Grant
2013	Member of AcademiaNet – Expert Database for Outstanding Female Scientists and Scholars
2014	Member of Academia Europaea
2015	Portrayed by Cell Metabolism as one of the leading female scientists in metabolism
2015	Advanced Grant from the Novo Nordisk Foundation
2016	Member of the Royal Danish Academy of Sciences and Letters
2016	Adjunct Professor, Molecular & Integrative Physiology, University of Michigan
2017	Novo Nordisk Foundation Lecture & Award
2017	Member of European Molecular Biology Organization (EMBO)
2017	Danish National Research Foundation grant to establish *Center of Excellence*
2018	Novo Nordisk Foundation grant to establish *Center for Adipocyte Signaling*
2019	Knight of the Order of Dannebrog
2022	Annual research outreach prize, Science Faculty, SDU
2024	Villum Kann Rasmussen Annual Award in Science and Technology

Commissions of trust

2000 - 2005	Executive board of the Danish Society for Biochemistry and Molecular Biology
2003 - 2012	Co-founder and member of the executive board of the Danish PhD school of Metabolism
2005 - 2010	Danish Natural Science Research Council
2008 - 2016	National Bibliometric Group for Molecular Biology, Cell Biology and Biotechnology
2009 - 2016	Medical and Natural Science Committee, the Novo Nordisk Foundation
2012 - 2017	Member of the Council and the Research Committee of the Danish Diabetes Academy
2013 - 2014	ERC LS2 Starting Grant panel
2015 - 2017	Chair of ERC LS2 Consolidator Grant panel
2016 -	Head of Functional Genomics and Metabolism Research Unit, SDU

2016 - Chair of Biochemistry and Molecular Biology, Danish Institute for Advanced Study
2017 - 2018 Chair of Committee on Bioscience and Basic Biomedicine, the Novo Nordisk Foundation
2017 - 2018 Committee on International Research Leader Grants, the Novo Nordisk Foundation
2018 - 2021 Committee on Young Investigator Grants, Villum Foundation
2019 - 2022 EMBO Membership Committee
2022- 2023 ERC-SyG panel member
2022- Carlsberg Foundation Board of Directors, since 2025 vice chair
2024- Bosch Health Campus International Advisory Board
2025- Danish Advanced Research Academy, Board of Directors, Chair

Major local academic committees

2004 - 2010 Chairman of the PhD Study Committee at Dept. of Biochemistry and Molecular Biology
2004 - 2010 PhD Study Board of Natural Science.
2009 - 2012 Academic Council, Faculty of Natural Science.
2018 - 2020 Management Group of Danish Institute of Advanced Studies
2018 - Management Group, Dept. Biochemistry and Molecular Biology

Current Editorial and Advisory Boards

2011- Editorial Board Trends in Endocrinology and Metabolism
2011- Editorial Board Cell Reports
2013- Editorial Board Molecular and Cellular Biology
2019- Editorial Board PLOS Biology
2022- Editorial Advisory Board Molecular Systems Biology
2019- Scientific Advisory Committee Department of Biosciences, University of Oslo

Ad hoc international evaluation tasks and referee work

- Expert scientific evaluator for ERC, EC FP6, FP7 and H2020 programs, European Foundation for the Study of Diabetes, National Institute of Health, numerous international research foundations
- Member of >45 PhD and faculty position evaluation committees in Denmark, Norway, Sweden, France, the Netherlands, UK and US.
- Referee Nature, Nature Med., Nature Genetics, Science, Cell, Mol. Cell, Cell Metab. Genes & Dev. etc.

Major international and national research consortia

- **X-TRA-NET** an EU FP6 STREP (2005-2009), role: coordinator.
- **MitoHealth** a Nordic Center of Excellence (2007-2013), role: member of executive board
- **AtheroRemo,** an EU FP7 large-scale project (2008-2013), role: partner
- **PATHWAY-27** (http://www.pathway27.eu/), EU FP7 large-scale project (2013-2018), role: partner
- **The Danish Diabetes Academy (**http://www.danishdiabetesacademy.dk/**)** supported by the Novo Nordisk Foundation (2012-2017), role: member of the Council and the Research Committee.
- **Villum Center for Bioanalytical Sciences.** Major instrumentation center at SDU, role: partner
- **Center of Excellence in Functional Genomics and Tissue Plasticity (ATLAS)**(2017-2023), role: director
- **Center for Adipocyte Signaling (ADIPOSIGN)** (2019-2025), role: director
- **ENHPATHY H2020 ITN** (2019-2023), role: WP leader
- **Human Cell Atlas** (2020-), role: coordinator of the Adipose Network
- **Novo Nordisk Foundation Center for Genomic Mechanisms of Disease** at **Broad Institute** (2021-2026)
- **The Danish Single Cell Examination Platform (CellX)** (2022-2031) role: management group

Adjunct/visiting professors hosted by group

- Gordon Hager, Center Director, NCI, NIH, Bethesda, MD, US (H.C. Andersen Visiting Professor 2014-17)
- Ormond MacDougald, University of Michigan, Ann Arbor, US (Adjunct Professor 2016-)
- James G. Granneman, Wayne State University, Detroit, US (Visiting Professor 2017)
- M. Madan Babu, MRC Laboratory for Molecular Biology, Cambridge, UK (Adjunct Professor 2018-)

International meetings

- > 200 invited lectures in Europe, Asia, and USA, including 95 at major international meetings (Keystone, CSHL, EMBO etc) in the field of transcriptional regulation, metabolism and adipocyte differentiation.
- Organizer of 21 major international meetings (EMBO, Cold Spring Harbor, Cell Symposia) since 2010

Supervision

Principal supervisor since 1999 of: 30 post docs, 42 PhD, 70 master and 108 bachelor students.

Peer reviewed publications

ORCID: 0000-0002-0961-5787
Google scholar:
https://scholar.google.co.uk/citations?user=JeOsJgIAAAAJ&hl=en#d=gs_hdr_drw&t=1724795252443

Number of peer-reviewed publications: 149
Invited point of views/commentaries/book chapters, not peer reviewed: 17
Google scholar: Citations (17,074), H-factor (74)
Web of Science: Citations (11,506), H-factor (59)

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 ^{1}H 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.*
7. J. Knudsen, **S. Mandrup**, J.T. Rasmussen, P.H. Andreasen, F. Poulsen & K. Kristiansen (1993). The function of acyl-CoA-binding protein (ACBP)/Diazepam binding inhibitor (DBI). *Mol. and Cell. Biochem.* ***123****, 129-138.*
8. M. Elholm, G. Bjerking, J. Knudsen, K. Kristiansen & **S. Mandrup** (1996). Regulatory elements in the promoter region of the rat gene encoding the acyl-CoA-binding protein. *Gene 17, 233-238.*
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.*
10. C.-S. Hwang, **S. Mandrup**, O. A. MacDougald, D. Geiman and M. D. Lane (1996). Transcriptional activation of the mouse obese (ob) gene by CCAAT/enhancer binding protein α. *Proc. Natl. Acad. Sci. USA 93, 873-877.*
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.*

16. T. Helledie, M. Antonius, R. V. Sørensen, D. A. Bernlohr, S. Kølvraa, K. Kristiansen and **S. Mandrup** (2000). Lipid-binding proteins modulate ligand-dependent trans-activation by peroxisome proliferator-activated receptors and localize to the nucleus as well as the cytoplasm. *J.Lipid Res. 41, 1740-1751.*

17. M. Elholm, I. Dam, C. Jørgensen, A. Krogsdam, D. Holst, I. Kratchmarova, M. Göttlicher, J.-Å. Gustafsson, R. K. Berge, T. Flatmark, J. Knudsen, **S. Mandrup**, and K. Kristiansen (2001). Acyl-CoA esters antagonize the effects of ligands on PPARα conformation, DNA binding and interaction with co-factors. *J. Biol. Chem. 276, 21410-21416.*

18. O. A. Macdougald and **S. Mandrup** (2002) Adipogenesis: The forces that tip the scales. *Trends Endocrinol. Metab.13, 5-11.*

19. A.M. Krogsdam, C.A.F. Nielsen, T. Helledie, S. Neve, B. Thomsen, C. Bendixen **S. Mandrup** & K. Kristiansen (2002) N-CoR dependent repression of PPARδ-mediated transactivation. *Biochem. J. 363, 157-165.*

20. L. Madsen, M. Guerre-Millo, K. Berge, E. Bergene, E. N. Flindt, E. Sebokova, A. C. Rustan, J. Jensen, **S. Mandrup**, K. Kristiansen, I. Klimers, B. Staels and R. K. Berge (2002). Tetradecylthioacetic acid induces expression of PPARα target genes, improves insulin sensitivity and reduces adiposity in two animal model models of insulin resistance. *J. Lipid. Res. 43, 742-750.*

21. C. Jørgensen, A.-M. Krogsdam, I. Kratchmarova, T. M. Willson, J. Knudsen, **S. Mandrup** & K. Kristiansen (2002) Opposing effects of fatty acids and acyl-CoA esters on conformation and cofactor recruitment of peroxisome proliferator-activated receptors. *Ann. N. Y. Acad. Sci. 967, 431-39*.

22. T. Helledie, L. Grøntved, S. S. Jensen, P. Kiilerich, L. Rietveld, T. Albrektsen, M. S. Boysen, J. Nøhr, L. K. Larsen, J. Fleckner, H. G. Stunnenberg, K. Kristiansen and **S. Mandrup** (2002). The gene encoding the acyl-CoA binding protein is activated by peroxisome proliferator activated receptor γ through an intronic response element functionally conserved between man and rodents. *J. Biol. Chem. 277, 26821-30, 2002.*

23. L. K. Larsen, E.-Z. Amri, **S. Mandrup**, C. Pacotm and K. Kristiansen (2002) Genomic organization of the mouse PPARδ gene. Alternative promoter usage and splicing yield transcripts exhibiting differential translational efficiency. *Biochem. J. 366, 767-775.*

24. T. Helledie, C. Jørgensen, M. Antonius, A.-M. Krogsdam, I. Kratchmarova, K. Kristiansen and **S. Mandrup** (2002) Role of FABPs and of the acyl-CoA binding protein (ACBP) in PPAR-mediated transactivation. *Mol. Cell. Biochem. 239, 157-164.*

25. **S. Mandrup**, N. J. Færgemann and J. Knudsen (2003) Structure, function and phylogeny of acyl-CoA binding protein. In *Cellular proteins and their fatty acids in health and disease, ed. A.K. Dutta-Roy and F. Spener, Wiley-VCH, Weinheim, p. 151-171*.

26. H. Zhang, J. Nøhr, C.H. Jensen, R.K. Petersen, E. Bachmann, B. Teisner, L.K. Larsen, **S. Mandrup**, & K. Kristiansen (2003) IGF-1/insulin bypasses pref-1/FA1-mediated inhibition of adipocyte differentiation. *J. Biol. Chem. 278, 20906-20914.*

27. J.M. Brown, M.S Boysen, S.S. Jensen, R.F. Morrison, J. Storkson, R.L. Currie, M. Pariza, **S. Mandrup** & M.K. McIntosh (2003) Trans-10, cis-12 conjugated linoleic acid decreases glucose and fatty acid uptake and oxidation and inhibits PPARgamma-dependent gene expression in human preadipocytes. *J. Lipid Res. 44, 1287-1300.*

28. C. Fontaine, G. Dubois, Y. Duguay, T. Helledie, Ngoc Vu-Dac, P. Gervois, F. Soncin, **S. Mandrup**, J.-C. Fruchart, J. Fruchart-Najib & B. Staels (2003) The orphan nuclear receptor Rev-Erbα is a peroxisome proliferator-activated receptor (PPAR) γ target gene and promotes PPARγ-induced adipocyte differentiation. *J. Biol. Chem. 278, 37672-37680.*

29. M.S. Winzell, H. Svensson, S. Enerbäck, K. Ravnskjær**, S. Mandrup**, Victoria Esser, P. Arner, M.-C. Alves-Guerra, B. Miroux, F. Sundler, B. Ahren & C. Holm (2003) Pancreatic β-cell lipotoxicity induced by overexpression of hormone-sensitive lipase. *Diabetes 52, 2057-2065.*

30. V. Rishi, J. Gal, D. Krylov, J. Fridriksson, M.S. Boysen, **S. Mandrup** & C. Vinson (2004) SREBP-1 dimerization specificity maps to both the HLH and leucine zipper domains: use of a dominant negative. *J. Biol. Chem. 279, 11863 - 11874.*

31. J.M. Brown, M.S. Boysen, S. Chung, O. Fabiyi, R.F. Morrison, **S. Mandrup** & M. McIntosh (2004) Conjugated linoleic acid (CLA) induces human adipocyte delipidation: autocrine/paracrine regulation of MEK/ERK signaling by adipocytokines. *J. Biol. Chem. 279,* 26735-26747.

32. E. M. Lindgren, R. Nielsen, N. Petrovic, A. Jacobsen, **S. Mandrup**, B. Cannon & J. Nedergaard (2004) Norepinephrine represses PPAR (peroxisome-proliferator-activated receptor) γ2 gene expression in brown adipocytes: intracellular signalling and effects on PPARγ2 and PPARγ1 protein levels. *Biochem. J. 382, 597-606*.

33. M.B. Sandberg, M. Bloksgaard, D. Duran-Sandoval, C. Duval, B. Staels & **S. Mandrup** (2005) The gene encoding the acyl-CoA binding protein is subject to metabolic regulation by both SREBP and PPARα in hepatocytes. *J. Biol. Chem. 280, 5258-5266.*

34. K. Ravnskjaer, M. Boergesen, B. Rubi, J.K. Larsen, Tina Nielsen, J. Fridriksson, P. Maechler & **S. Mandrup** (2005) PPARα potentiates whereas PPARγ attenuates glucose-stimulated insulin secretion in pancreatic β-cells. *Endocrinology 146, 3266-76.*

35. M.B. Sandberg, J. Fridriksson, L. Madsen, V. Rishi, C. Vinson, H. Holmsen, R.K. Berge & **S. Mandrup** (2005) Glucose-induced lipogenesis in pancreatic β-cells is dependent on SREBP-1. *Mol. Cell. Endocrinol. 240, 94-106.*

36. K. Ravnskjaer, M. Boergesen, L. T. Dalgaard & **S. Mandrup** (2006) Glucose-induced repression of PPARα gene expression in pancreatic β-cells involves PP2A activation and AMPK inactivation. *J. Mol. Endocrinology 36, 289-299.*

37. D. Neess, P. Kiilerich, M. B. Sandberg, T. Helledie, R. Nielsen, **S. Mandrup** (2006) ACBP – a PPAR and SREBP modulated housekeeping gene. *Mol Cell. Biochem. 284, 149-57.*

38. R. Nielsen, L. Grøntved, H. Stunnenberg, **S. Mandrup** (2006) PPAR subtype and cell type specific activation of genomic target genes upon adenoviral transgene delivery. *Mol. Cell. Biol. 26, 5698-5714.*

39. T.Å. Pedersen, O. Bereshchenko, S. Garcia-Silva, O. Ermakova, E. Kurz, **S. Mandrup**, B.T. Porse and C. Nerlov (2007) Distinct C/EBPalpha motifs regulate lipogenic and gluconeogenic gene expression *in vivo*. *EMBO J 26, 1081-1093.*

40. W. Qiu, T. E. Andersen, J. Bollerslev, **S. Mandrup**, B. M. Abdallah, M. Kassem. (2007) Patients with High Bone Mass Phenotype Exhibit Enhanced Osteoblast Differentiation and Inhibition of Adipogenesis of Human Mesenchymal Stem cells. *J. Bone Min. Res. 22, 1720-31.*

41. O. van Beekum, A.B. Brenkman, L. Grøntved, N. Hamers, N.J.F. van den Broek, R. Berger, **S. Mandrup**, E. Kalkhoven (2008) The adipogenic acetyltransferase TIP60 targets activation function 1 of PPARγ. *Endocrinology 149, 1840-49.*

42. R. Nielsen*, T. Å. Pedersen*, D. Hagenbeek*, P. Moulos, R. Siersbæk, E. Megens, M. Børgesen, K.-J. Francoijs, **S. Mandrup**¤ and H. G. Stunnenberg¤ (2008) Genome-wide profiling of PPARγ:RXR and RNA polymerase II occupancy reveals temporal activation of distinct metabolic pathways and changes in RXR dimer composition during adipogenesis. *Genes & Dev. 22, 2953 - 2967.* (*equal contribution, ¤co-correspondence)

43. M. V. Hollegaard, J. Grove, P. Thorsen, X. Wang, **S. Mandrup**, M. Christiansen, B. Norgaard-Pedersen, K.R. Wojdemann, A. Tabor, J. Attermann, D. M. Hougaard (2008) Polymorphisms in the tumor necrosis factor alpha and interleukin 1-beta promoters with possible gene regulatory functions increase the risk of preterm birth. *Acta Obstetrica et Gynecologia Scandinavica 87, 1285-90.*

44. S. Carobbio, F. Frigerio, B. Rubi, L. Vetterli, M. Bloksgaard, A. Gjinovci, S. Pournourmohammadi, P. L. Herrera, W. Reith, **S. Mandrup**, and P. Maechler (2009) Deletion of glutamate dehydrogenase in beta-cells abolishes part of the insulin secretory response not required for glucose homeostasis. *J. Biol. Chem*. *284:921-929.*

45. A. Bugge, L. Grøntved, M. M. Aagaard, R. Borup, and **S. Mandrup** (2009) The PPARγ2 A/B-domain plays a gene specific role in transactivation and co-factor recruitment. *Mol. Endocrinology 23, 794–808.*

46. M. Raff, T. Tholstrup, S. Toubro, J.M. Bruun, P. Lund, E. M. Straarup, R. Christensen, M.B. Sandberg, **S. Mandrup** (2009) A mixture of conjugated linoleic acids reduce lower body fat mass in healthy postmenopausal women. *J. Nutrition 139, 1347-1352.*

47. E. H. Jeninga, A. Bugge, R. Nielsen, S. Kersten, C. Dani, M. Wabitsch, R. Berger, H. Stunnenberg, **S. Mandrup** and E. Kalkhoven (2009) Peroxisome Proliferator-Activated receptor γ (PPARγ) regulates expression of the anti-lipolytic G-protein-coupled receptor 81 (GPR81/Gpr81). *J. Biol. Chem. 284, 26385-26393.*

48. F. Lalloyer, T. Å. Pedersen, B. Gross, S. Yous, E. Vallez, J.-Å. Gustafsson, **S. Mandrup**, C. Fiévet, B. Staels, A. Tailleux (2009) The rexinoid bexarotene modulates triglyceride but not cholesterol metabolism via gene specific permissivity of the RXR/LXR heterodimer. *Arterioscler. Thromb. Vasc. Biol. 29, 1488-1495.*

49. S. Pozzi, M. Børgesen, Satrajit Sinha, **S. Mandrup**, R. Mantovani (2009) Peroxisome proliferator activated receptor alpha is a functional target of p63 in adult human keratinocytes. *J. Invest. Dermatology, 129, 2376-85.*

50. F. Frigerio, C. Bartley, A. Usardi, K. Ravnskjær, **S. Mandrup**, P. Maechler (2010) PPARα protects against fatty acid induced INS-1E ß-cell dysfunction by preserving carbohydrate metabolism. *Diabetologia, 53, 331–340.*

51. A. Kennedy, K. Martinez, S. Schmidt, **S. Mandrup**, K. LaPoint, M. McIntosh (2010) Antiobesity Mechanisms of Action of Conjugated Linoleic Acid. *J. Nutr. Biochem. 21, 171-9.*

52. B. Rauwel, B. Mariamé, H. Martin, R. Nielsen, S. Allart, B. Pipy, **S. Mandrup**, M. D. Devignes, D. Evain-Brion, T. Fournier, C. Davrinche (2010) Activation of PPARγ by human cytomegalovirus for de novo replication impairs migration and invasiveness of cytotrophoblast from early placenta. *J. Virology 84, 2946 - 54.*

53. L. Grøntved, M. S. Madsen, M. Børgesen, R. G. Roeder, **S. Mandrup** (2010) MED14 tethers the Mediator to the N-terminal domain of PPARγ and is required for full transcriptional activity and adipogenesis*. Mol. Cell Biol. 30, 2155-69.*

54. K. Ravnskjaer, F. Frigerio*, M. Børgesen*, T. Nielsen, P. Maechler, **S. Mandrup** (2010) PPARδ is a fatty acid sensor, which activates mitochondrial oxidation and protects insulin secreting cells against lipotoxicity. *J. Lipid Res. 51, 1370–1379***.** (* equal contribution)

55. A. Bugge*, M. Siersbæk*, M. S. Madsen, A. Göndör, C. Rougier, **S. Mandrup** (2010) A novel intronic peroxisome proliferator-activated receptor enhancer in the uncoupling protein (UCP) 3 gene as a regulator of both UCP2 and -3 expression in adipocytes. *J. Biol. Chem. 285, 17310-17317.* (* equal contribution)

56. A. Kennedy, K. Martinez, S. Chung, K. LaPoint, R. Hopkins, S.F. Schmidt, K. Andersen, **S. Mandrup**, M. McIntosh (2010) Inflammation and insulin resistance induced by trans-10, cis-12 conjugated linoleic acid are dependent on intracellular calcium levels in primary cultures of human adipocytes. *J. Lipid Res. 51, 1906-1916.*

57. J. Tuckermann, W. Bourguert, **S. Mandrup** (2010) Nuclear Receptors – Transcription factors and drug targets connecting basic research with translational medicine. *Mol. Endocrinol. 24, 1311-1321.*

58. R. Siersbæk, R. Nielsen, **S. Mandrup** (2010) PPARgamma in adipocyte differentiation and metabolism - novel insights from genome-wide studies. *FEBS Lett. 584, 3242-3249.*

59. A. Bugge, **S. Mandrup** (2010) Molecular mechanisms and genome-wide aspects of PPAR subtype specific transactivation. *PPAR Res. 2010, ID 169506, 1-12.*

60. A. Nebbioso, D'A. Carmela, A. Bugge, R. Sarno, S. Valente, D. Rotili, F. Manzo, D. Teti, **S. Mandrup**, P. Ciana, A. Maggi, A. Mai, H. Gronemeyer, L. Altucci (2010) HDACs class II selective inhibition alters nuclear receptor dependent differentiation. *J. Mol. Endocrinol. 45, 219 - 228.*

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¤, **S. Mandrup¤** (2011) Cross species comparison of C/EBPα and PPARγ profiles in mouse and human adipocytes reveals interdependent retention of binding sites. *BMC Genomics 12: 152, 1-16* (*equal contribution, ¤ 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.*

64. M. Børgesen*, L.L.C. Poulsen*, S. F. Schmidt, F. Frigerio, P. Maechler, **S. Mandrup** (2011) ChREBP mediates glucose-repression of PPARα expression in pancreatic β-cells. *J. Biol. Chem. 286, 13214-13225* (*equal contribution).

65. R. Siersbæk, R. Nielsen, S. John, M.-H. Sung, S. Baek, A. Loft, G. L. Hager¤, **S. Mandrup**¤ (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)* (¤ 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, front cover, and rated among top ten articles of the year)

68. M. Børgesen, T. Å. Pedersen, S. vanHeeringen, B. Gross, Hagenbeek, C. Bindesbøll, 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 PPARα in mouse liver reveals extensive sharing of binding sites. *Mol. Cell. Biol. 32, 852-867.*

69. S. F. Schmidt, M. Jørgensen, A. Sandelin, **S. Mandrup** (2012) Cross-species ChIP-seq studies provide insights into regulatory strategies of PPARγ in adipocytes. *Transcription 3, 19-24.*

70. **S. Mandrup**, G. Hager (2012) Extensive chromatin remodeling and establishment of transcription factor 'hotspots' during early adipogenesis. *Nucleus 3, 12-15.*

71. Yusuf et al. (2012) The Transcription Factor Encyclopedia. *Genome Biology 13:R24*

72. S. Langaa, M. Bloksgaard, S. Bek, D. Neess, P. R. Nørregaard, P.B.L. Hansen, A.-B. Marcher, J. Frøkjær, **S. Mandrup**¤, B. L Jensen (2012) Mice with targeted disruption of the Acyl-CoA-binding protein display impaired urine concentrating ability and diminished renal aquaporin 3 abundance. *Am. J. Physiol. Renal Physiol., 302, F1034-44.* (¤ corresponding author)

73. J.V. Stidsen, R. Khorooshi, M.K.U. Rahbek, K.L. Kirketerp-Møller, P.B.L. Hansen, P. Bie, K. Kejling, **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.*

75. C. Taxvig, K.D. Sørensen, J. Boberg, C. Nellemann, A.B. Schelde, D. Pedersen, M. Børgesen, **S. Mandrup**, and A. M. Vinggaard (2012) Differential effects of environmental chemicals and food contaminants on adipocyte differentiation, biomarker release and PPARα and PPARγ transactivation. *Mol. Cell. Endocrinol. 361, 106–115.*

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 PPARγ 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.*

78. M. Bloksgaard, S. Bek, A.-B. Marcher, D. Neess, H. K. Hannibal-Bach, J. Brewer, H. K. Hannibal-Bach, T. Helledie, c. Fenger, M. Due, Z. Berzina, R. Neubert, J. Chemnitz, B. Finsen, A. Clemmensen, J. Wilbertz, H. Saxtorph, J. Knudsen, L. Bagatolli, **S. Mandrup** (2012) The acyl coenzyme A binding protein is required for epidermal barrier function in mice. *J. Lipid Res. 53, 2162-2174.*

79. S. Jacobsen, C. Brøns, J. Bork-Jensen, R. Ribel-Madsen, B. Yang, E. Larac, V. Calvanesec, **S. Mandrup**, E. Nilsson, C. Ling, A. F. Fernandezc, M. F. Fragac, P. Poulsen, A. Vaag (2012) Short term, high-fat diet influence promoter DNA methylation in skeletal muscle of healthy young men. *Diabetologia 55, 3341-3349.*

80. S. Alex, K. Lange, T. Amolo, J.S. Grinstead, A.K. Haakonsson, E. Szalowskae, A. Koppen, K. Mudde, D. Haenen, S. Al-Lahham, H. Roelofsen, R. Houtman, B. van der Burg, **S. Mandrup**, A.M.J.J. Bonvin, E. Kalkhoven, M. Muller, G.J. Hooiveld, S. Kersten (2013) Short chain fatty acids stimulate Angiopoietin-like 4 synthesis in human colonocytes by activating PPARγ. *Mol. Cell. Biol. 33, 1303-1316.*

81. A. Haakonsson, M.S. Madsen, R. Nielsen, A. Sandelin, **S. Mandrup** (2013) Acute genome-wide effects of Rosiglitazone on PPARγ transcriptional networks in adipocytes. *Mol. Endocrinology 27, 1536–1549.*

82. M.V. Hollegaard, J. Grauholm, R. Nielsen, J. Groved, **S. Mandrup**, D.M. Hougaard (2013) Archived neonatal dried blood spot samples can be used for accurate whole-genome and exome targeted next generation sequencing. *Mol. Gen. Metab. 110,* ***65-72****.*

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/EBPα synergistically activate key metabolic adipocyte genes by assisted loading. *Mol. Cell. Biol. 34, 939-954.*

87. H.J. Kamstra, E. Hruba, B. Blumberg, A. Janesick, **S. Mandrup**, T. Hamers, J. Legler (2014) Transcriptional and epigenetic mechanisms underlying enhanced in vitro adipocyte differentiation by the brominated flame-retardant BDE-47. *Environ. Sci. Technol., 48, 4110-4119.*

88. M.I. Lefterova*, A.K. Haakonsson*, M.A. Lazar¤, **S. Mandrup¤** (2014) PPARγ and the Global Map of Adipogenesis and Beyond. (*equal contribution, ¤co-correspondence) *Trends Endocrinol. Metab. 25, 293-302.* (Featured article, front cover, and rated among top ten articles of the year) (* equal contribution; ¤ co-correspondence)

89. R. Siersbæk, A. Rabiee, R. Nielsen, S. Sidoli, S. Traynor, A. Loft, L.L.C. Poulsen, A. Rogowska-Wrzesinska, O.N. Jensen, **S. Mandrup** (2014) Transcription factor cooperativity in early adipogenic hotspots and super-enhancers. *Cell Reports 7, 1443–1455.*

90. R. Siersbæk, S. Baek, A. Rabiee, R. Nielsen, S. Traynor, N. Clark, A. Sandelin, O.N. Jensen, M.-H. Sung, G.L. Hager, **S. Mandrup** (2014) Molecular architecture of transcription factor hotspots in early adipogenesis. *Cell Reports, 7, 1434–1442.*

91. M. Rakhshandehroo, S.M.W. Gijzel*, R. Siersbæk*, M.F. Broekema, H.S. Schipper, M. Boes, **S. Mandrup**, E. Kalkhoven (2014) CD1d-mediated presentation of endogenous lipid antigens by adipocytes requires microsomal triglyceride transfer protein (MTP). *J. Biol. Chem., 289, 22128-22139.*

92. A. Loft, I. Forss*, M.S. Siersbæk*, S.F. Schmidt, A.-S. B. Larsen, J.G.S. Madsen, D. Pisani, R. Nielsen, M.M. Aagaard. A. Mathison, M.J. Neville, R. Urrutia, F. Karpe, E.-Z. Amri, **S. Mandrup** (2015) Browning of human adipocytes requires KLF11 and reprogramming of PPARγ super-enhancers. *Genes & Dev. 29, 7-22.* (* equal contribution) (cover article)

93. C. Bindesbøll, Q. Fan, R.C. Nørgaard, L. MacPherson, H-B Ruan, J. Wu, T.Å. Pedersen, K.R Steffensen, X. Yang, J. Matthews, **S. Mandrup**, H.I. Nebb, L. Grønning-Wang (2015) Liver X Receptor Regulates Hepatic Nuclear O-GlcNAc Cycling and Carbohydrate Responsive Element-Binding Protein Activity. *J. Lipid Res. 56, 771-785.*

94. J.G.S. Madsen*, S.F. Schmidt*, B.D. Larsen, A. Loft, R. Nielsen, **S. Mandrup** (2015) iRNA-seq: A novel computational method for genome-wide assessment of acute transcriptional regulation from total RNA-seq data. *Nucl. Acid Res. 43, e40.* (* equal contribution)

95. K. Bouyakdana, B. Taïba, L. Budrya, S. Zhaoa, D. Rodarosa, D. Neess, **S. Mandrup**, N.J. Færgeman, T. Alquier (2015) A novel role for DBI/ACBP as a regulator of long-chain fatty acid metabolism in astrocytes. *J. Neuro. Chem., 133, 253-65.*

96. I.C. Elle, K.K. Karlsen, M.G. Terp, N. Larsen, R. Nielsen, N. Derbyshire, **S. Mandrup**, H.J. Ditzel, J. Wengel (2015) Selection of LNA-containing DNA aptamers against recombinant CD73. *Mol. Biosyst. 11, 1260-70.*

97. S.F. Schmidt*, B.D. Larsen*, A. Loft, R. Nielsen, J.G.S. Madsen, **S. Mandrup** (2015) Acute TNF-induced repression of cell identity genes is mediated by NFκB-directed redistribution of cofactors from super-enhancers. *Genome Res. 25, 1281-1294.* (* equal contribution)

98. S. Bek, D. Neess, K. Dixen, M. Bloksgaard, A.-B. Marcher, J. Chemnitz, N.J. Færgeman¤, **S. Mandrup¤** (2015) Compromised epidermal barrier stimulates Harderian gland activity and hypertrophy in mice deficient for the acyl-CoA binding protein. *J. Lipid Res.56, 1738-46.* (¤ co-correspondence)

99. A.-B. Marcher*, A. Loft*, R. Nielsen, T. Vihervaara, J.G. Madsen, M. Sysi-Aho, K. Ekroos, **S. Mandrup** (2015) RNA-Seq and Mass-Spectrometry-Based Lipidomics Reveal Extensive Changes of Glycerolipid Pathways in Brown Adipose Tissue in Response to Cold. *Cell Reports 13, 2000-2013.* (*equal contribution)

100. C. Björk, U. Wilhelm, **S. Mandrup**, B.D. Larsen, A. Bordoni, P. Hedén, M. Rydén, P. Arner, J. Laurencikiene (2016) Effects of selected bioactive food compounds on human white adipocyte function. Nutrition & Metabolism. *Nutr. Metab. 13:4.*

101. S.F. Schmidt*, B. D. Larsen*, A. Loft, **S. Mandrup** (2016) Cofactor squelching: Artifact or fact? *BioEssays 38, 618-26.* (* equal contribution) (cover article)

102. P. Hallenborg, M. Siersbæk, I. Barrio-Hernandez, R. Nielsen, K. Kristiansen, **S. Mandrup**, L. Grøntved, B. Blagoev (2016) MDM2 facilitates adipocyte differentiation through CRTC-mediated activation of STAT3 *Cell Death & Diff. 7, e2289.*

103. L. Budry, K. Bouyakdan, S. Tobin, D. Rodarosa, A.-B. Marcher, **S. Mandrup**, S. Fulton, T. Alquier (2016) DBI/ACBP loss-of-function does not affect anxiety-like behaviour but reduces anxiolytic responses to diazepam in mice. *Behavioural Brain Res. 313, 201-20.7*

104. S.F. Schmidt*, J.G.S. Madsen*, K. Østerli, L.L.C. Poulsen, Sofia Salö, M. Børgesen, A. Loft, R. Nielsen, J.J.Holst, Louise T. Dalgaard, **S. Mandrup** (2016) Integrative genomics outlines a biphasic glucose response and a ChREBP-RORgamma axis regulating proliferation in β-cells. *Cell Reports 16, 2359-2372.*

105. A. Loft*, I. Forss*, **S. Mandrup** (2017) Genome-wide insights into development and function of thermogenic adipocytes. *Trends Endocrinol. Metab. 28,104-120.*

106. A.-S.B. Brier*, A. Loft*, J.G.S. Madsen, T. Rosengren, S.F. Schmidt, R. Nielsen, Z. Liu, Q. Yan, H. Gronemeyer, **S. Mandrup** (2017) The KDM5 family is required for activation of cell cycle genes during mitotic clonal expansion and differentiation of 3T3-L1 preadipocytes. *Nucl. Acid Res., 45, 1743-1759.*

107. M. Siersbæk, L. Varticovski, S. Yang, S. Baek, R. Nielsen, **S. Mandrup**, G.L. Hager, J.H. Chung, L. Grøntved (2017) High fat diet-induced changes of mouse hepatic transcription and enhancer activity can be reversed by subsequent weight loss. *Sci. Rep. 7, 40220.*

108. J. Wang, P. Rajbhandari, A. Damianov, A. Han, T. Sallam, H. Waki, C. Villanueva, S. Lee, R. Nielsen, **S. Mandrup**, K. Reue, S.G. Young, J. Whitelegge, E. Saez, D. Black, P. Tontonoz (2017) RNA-binding protein PSPC1 promotes the differentiation-dependent nuclear export of adipocyte RNAs. *J. Clin. Invest. 127, 987-1004.*

109. A. Rabiee, V. Schwämmle, J. Dai, S. Sidoli, A. Rogowska-Wrzesinska, **S. Mandrup**, Ole N. Jensen (2017) Nuclear phosphoproteome analysis of 3T3-L1 preadipocyte differentiation reveals system-wide phosphorylation of transcriptional regulators. *Proteomics 17, 1600248.*

110. W. Dijk*, F. Mattijssen*, M. de la Rosa Rodriguez, A.L. Valdez, A. Loft, **S. Mandrup**, E. Kalkhoven, L. Qi, J.-W. Borst, S. Kersten (2017) Hypoxia-Inducible Lipid Droplet-Associated Is Not a Direct Physiological Regulator of Lipolysis in Adipose Tissue. *Endocrinology, 158, 1231-1251.*

111. R. Siersbæk*, J.G.S. Madsen*, B.M. Javierre*, R. Nielsen*, E.K. Bagge, J. Cairns, S.W. Wingett, S. Traynor, M. Spivakov, P. Fraser¤, **S. Mandrup**¤ (2017) Dynamic rewiring of promoter-anchored chromatin loops during adipocyte differentiation. *Mol. Cell 66, 420-435.*

112. E.B. Harvald, R.R. Sprenger, K. B. Dalla, C.S. Ejsing, R. Nielsen, **S. Mandrup**, A. Gartner, A.I. Lamond, N.J. Færgeman (2017) Multi-omics analyses of starvation responses reveal a central role for lipoprotein metabolism in acute starvation survival in C. elegans (2017) *Cell Systems 5, 38-52.*

113. A.S. Portuguez, M. Schwartz, R. Siersbaek, R. Nielsen, M.-H. Sung, **S. Mandrup**, T. Kaplan, O. Hakim (2017) Hierarchical role for transcription factors and chromatin structure in genome organization along adipogenesis *FEBS J., 284, 3230-3244.*

114. D.P. Bagchi, I. Forss, **S. Mandrup**, O.A. MacDougald (2018) SnapShot: Niche Determines Adipocyte character I + II. *Cell Metab. 27, 264–266.*

115. J.G.S. Madsen*, A. Rauch*, E.L. Van Hauwaert, S.F. Schmidt, M. Winnefeld, **S. Mandrup** (2018) Integrated analysis of motif activity and gene expression changes of transcription factors. *Genome Res. 28, 243-255.*

116. S. Bahdoudi, I. Ghouili, M. Hmiden, J.L. do Rego, B. Lefranc, J. Leprince, J. Chuquet, J.C. do Rego, A.B. Marcher, **S. Mandrup**, H. Vaudry, M.C. Tonon, M. Amri, O. Masmoudi-Kouki, D. Vaudry (2018) Neuroprotective effects of the gliopeptide ODN in an in vivo model of Parkinson's disease. *Cell Mol. Life Sci 75, 2075-2091.*

117. E.G. Sustarsic, T. Ma, M.D. Lynes, M. Larsen, I. Karavaeva, J.F. Havelund, C.H. Nielsen, M.P. Jedrychowski, M. Moreno-Torres, M. Lundh, K. Plucinska, N.Z. Jespersen, T.J. Grevengoed, B. Kramar, J. Peics, J.B. Hansen, F. Shamsi, I. Forss, D. Neess, S. Keipert, J. Wang, K. Stohlmann, I. Brandslund, C. Christensen, M.E. Jørgensen, A. Linneberg, O.B. Pedersen, M.A. Kiebish, K. Qvortrup, X. Han, B.K. Pedersen, M. Jastroch, **S. Mandrup**, A. Kjær, S.P. Gygi, T. Hansen, M.P. Gillum, N. Grarup, B. Emanuelli, S. Nielsen, C. Scheele, Y.-H. Tseng, N. J. Færgeman, Z. Gerhart-Hines (2018) Cardiolipin Synthesis in Brown and Beige Fat Mitochondria is Essential for Systemic Energy Homeostasis. *Cell Metab. 28, 159-174.*

118. A. Kalvisa*, M.S. Siersbæk*, L.J.L. Christensen, S.M. Præstholm, R. Nielsen, O. Stohr, S. Vettorazzi, J. Tuckerman, M. White, **S. Mandrup**, L. Grøntved (2018) Insulin signaling and reduced glucocorticoid receptor activity attenuate postprandial gene expression in the liver. *PLoS Biol 16: e2006249.*

119. A Rauch, A.K. Haakonsson, J.G.S. Madsen, M. Larsen, I. Forss, M.R. Madsen, E.L. Van Hauwaert, C. Wiwie, N.Z. Jespersen, M. Tencerova, R. Nielsen, B.D. Larsen, R. Röttger, J. Baumbach, C. Scheele, M. Kassem, **S. Mandrup** (2019) Osteogenesis depends on commissioning of a network of stem cell transcription factors that act as repressors of adipogenesis. *Nature Genetics 51, 716–727.*

    (**Highlighted:** K. Bauman (2019) On making fat or bone. *Nature Reviews Mol. Cell Biol. 20, 264-65*; A. Deb (2019) How Stem Cells Turn into Bone and Fat. *New Eng. J. Med. 380, 2268-2270*)

120. A.-B. Marcher*, S.M. Bendixen*, M. Krogh Terkelsen, S.S. Hohmann, M.H. Hansen, B.D. Larsen, **S. Mandrup**, H. Dimke. Detlefsen, K. Ravnskjaer (2019) Transcriptional regulation of Hepatic Stellate Cell activation in NASH. *Sci. Rep., 9, 2324.*

121. C. Wiwie, I. Kuznetsova A. Rauch, A. Mostafa, A. Haakonsson, I. Barrio-Hernandez, B. Blagoev, **S. Mandrup**, H.H.H.W. Schmidt, S. Pleschka, R. Röttger, J. Baumbach (2019) Time-resolved systems medicine reveals viral infection-modulating host targets. *Syst. Med. 2, 1-9.*

122. S. Pearson, A. Loft, P. Rahbhandari, J. Simcox, S. Lee, A. Donato, P. Tontonoz, **S. Mandrup**, C.J. Villanueva (2019) Loss of TLE3 Promotes Mitochondrial Program in Beige Adipocytes and Improves Glucose Metabolism. *Genes & Dev. 33, 747-762.*

123. E. Søndergaard, A. Rauch, M. Michaut, N. Rapin, M. Rehn, A. Wilhelmson, A. Camponeschi, M.S. Hasemann, F.O. Bagger, J. Jendholm, K.J. Knudsen, **S. Mandrup**, I.-L. Mårtensson, B.T. Porse (2019) ERG controls B-cell development by promoting Igh V-to-DJ recombination. *Cell Reports 29, 2756-2769.*

124. T. Brun, C. Jiménez-Sánchez, J. G. S. Madsen, N. Hadadi, D. Duhamel, C. Bartley, L. Oberhauser, M. Trajkovski, **S. Mandrup**, P. Maechler (2020) AMPK profiling in rodent and human pancreatic beta-cells under nutrient-rich metabolic stress. *Int. J. Mol. Sci. 21, 3982.*

125. M.S. Siersbæk, N. Ditzel, E.K. Hejbøl, S. M. Præstholm, L.K. Markussen, F. Avolio, L. Li, L. Lehtonen, A.K. Hansen, H.D. Schrøder, L. Krych, **S. Mandrup**, L. Langhorn, P. Bollen, L. Grøntved (2020) C57BL/6J substrain differences in response to high-fat diet intervention. *Sci. Rep. 10, 14052.*

126. F. Danesi, B.D. Larsen, M. Di Nunzio, R. Nielsen, D. de Biase, V. Valli, **S. Mandrup**, A. Bordoni (2020) Co-administration of propionate or protocatechuic acid does not affect transcriptional effects of DHA in cultured hepatic cells. *Nutrients 12, 2952.*

127. J J.G.S. Madsen, M.S. Madsen*, A. Rauch*, S. Traynor*, E.L. Van Hauwaert, A.K. Haakonsson, B.M. Javierre, M. Hyldahl, P. Fraser, **S. Mandrup** (2020) Highly connected enhancer communities control adipogenesis of human mesenchymal stem cells. *Nature Genetics 52, 1227-1238.*

128. M.K. Terkelsen, S.M. Bendixen, E.A.H. Scott, A.F. Moeller, R. Nielsen, **S. Mandrup**, K.N. Natarajan, S. Detlefsen, H. Dimke, K Ravnskjaer (2020) Transcriptional dynamics of hepatic sinusoid-associated cells upon liver injury. *Hepatology 72, 2119-33.*

129. A.K. Sarvari*, E.L. Van Hauwaert*, L. K. Markussen, E. Gammelmark, R. Nielsen, J.G.S. Madsen¤, **S. Mandrup**¤ (2021) Plasticity of epididymal adipose tissue in response to diet-induced obesity at single-nucleus resolution. *Cell Metabolism 33, 437-453.*

130. L.O. Huang, A. Rauch, E. Mazzaferro, M. Preuss, S. Carobbio, C.S Bayrak, N. Chami, Z. Wang, U.M. Schick, N. Yang, Y. Itan, A. Vidal-Puig, M. den Hoed, **S. Mandrup**, T.O. Kilpeläinen¤, R.J.F. Loos¤ (2021) Genome-wide discovery of genetic loci that uncouple excess adiposity from its comorbidities implicates new biology. *Nature Metabolism 3, 228-243.*

131. D. Neess*, V. Kruse*, A.-B. Marcher, M. R. Wæde, J. Vistisen, P.M. Møller, R. Petersen, J.R. Brewer, T. Ma, G. Colleluori, I. Severi, S. Cinti, Z. Gerhart-Hines, **S. Mandrup¤**, N.J. Færgeman¤ (2021) Epidermal Acyl-CoA Binding Protein is Indispensable for Systemic Energy Homeostasis. *Molecular Metabolism 44, 101144.*

132. R.B. Grønnemose, C. Garde, C.S. Wassmann, J.K. Klitgaard, R. Nielsen, **S. Mandrup**, A.H. Mattsson, T.E. Andersen (2021) Bacteria-host transcriptional response during endothelial invasion by Staphylococcus aureus. *Sci. Rep. 11: 6037.*

133. D.A. Garcia, T.A. Johnson, D.M. Presman, G. Fettweis, K. Wagh, L. Rinaldi, D.A. Stavreva, V. Paakinaho, R.A.M. Jensen, **S. Mandrup**, A. Upadhyaya, G.L. Hager (2021) An Intrinsic Disordered Region Mediated Confinement State Contributes to Dynamics and Function of Transcription Factors. *Molecular Cell 81, 1484-1498.*

134. A. Rauch¤, **S. Mandrup**¤ (2021) Transcriptional Mechanisms controlling Stromal Cell Differentiation. *Nature Reviews Molecular Cell Biology 22, 465–482.*

135. O.S. Johansen, T. Ma, J. B. Hansen, L.K. Markussen, R. Schreiber, L. Reverte, H. Dong, D.P. Christensen, W. Sun, T. Gnad, I. Karavaeva, T.S. Nielsen, S. Kooijman, C. Cero, O. Dmytriyeva, Y. Shen, M. Razzoli, S.L. O'Brien, E. Kuipers, C.H. Nielsen, W. Orchard, N. Willemsen, N.Z. Jespersen, M. Lundh, E.G. Sustarsic, C. Mottlau, M. Frost, S. McGonigle, M.S. Isidor, C. Broholm, O. Pedersen, J.B. Hansen, N. Grarup, T. Hansen, A. Kjær, J.G. Granneman, M. Babu, D. Calebiro, S. Nielsen, M. Ryden, R. Soccio, P.C.N. Rensen, J.T. Treebak, T.W. Schwartz, B. Emanuelli, A. Bartolomucci, A. Pfeifer, R. Zechner, C. Scheele, **S. Mandrup**, Z. Gerhart-Hines (2021) Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. *Cell 184, 3502–3518.*

136. R. Lamtahri, M. Hazime, E.K Gowing, R.Y. Nagaraja, J. Maucotel, P. Quilichini, K. Lehongre, B. Lefranc, K. Gach-Janczak, A.-B. Marcher, **S. Mandrup**, D. Vaudry, A.N. Clarkson, J. Leprince, J. Chuquet (2021) The gliopeptide ODN, a ligand for the benzodiazepine site of GABAA receptors, boosts functional recovery after stroke. *J. Neuroscience 41, 7148–7159.*

137. E.L. Van Hauwaert, E. Gammelmark, A.K. Sárvári, L. Larsen, R. Nielsen, J.G.S. Madsen, **S. Mandrup** (2021) Isolation of nuclei from mouse white adipose tissues for single-nucleus genomics. *STAR Protocols 2, 100612.*

138. L. Oberhauser, C. Jiménez-Sànchez, J.G.S. Madsen, D. Duhamel, **S. Mandrup**, T. Brun, P. Maechler (2022) Glucolipotoxicity promotes the capacity of the glycerolipid/free fatty acid cycle thereby supporting the secretory response of pancreatic beta-cells. *Diabetologia 65, 705–720.*

139. L.K. Markussen, E.A. Rondini, O.S. Johansen, J.G.S. Madsen, E.G. Sustarsic, A.-B. Macher, J.B. Hansen, Z. Gerhart-Hines, J.G. Granneman¤, **S. Mandrup**¤ (2022) Lipolysis regulates major transcriptional programs in brown adipocytes. *Nature Comm. 13, 3956.*

140. V. Shukla*, A. Cetnarowska*, M. Hyldahl*, **S. Mandrup** (2022) Interplay between regulatory elements and chromatin topology in cellular lineage determination. *Trends Genetics 38, 1048-1061.*

141. M.S. Madsen*, M.F. Broekema*, M.R. Madsen, A. Koppen, A. Borgman, C. Gräwe, E.G.K. Thomsen, M.E.G. Kranendonk, M.G. Koerkamp, N. Hamers, A.M.J.J. Bonvin, J.M.R. Pittol, K.N. Natarajan, S. Kersten, F.C.P. Holstege, H. Monajemi, S.W.C. van Mil, W. Spiering, M. Vermeulen, B. Kragelund, D. Cassiman, **S. Mandrup¤,** E. Kalkhoven¤ (2022) PPARγ lipodystrophy mutants reveal intermolecular interactions required for enhancer activation *Nature Comm. 13, 7090.*

142. F.T. Larsen, D. Hansen, M.K. Terkelsen, S.M. Bendixen, F. Avolio, C.W. Wernberg, M.E.M. Lauridsen, E. Gammelmark, **S. Mandrup**, T.D. Caterino, M.S. Siersbæk, V.I. Chandran, J.H. Graversen, A.A. Krag, L. Grøntved, Kim Ravnskjaer (2022) Stellate cell expression of SPARC-related modular calcium-binding protein 2 is associated with human non-alcoholic fatty liver disease severity. *J. Hepatology Rep. 5, 100615.*

143. J.B. Zaugg*, P. Sahlén*, R. Andersson*, M. Alberich-Jorda, W. de Laat, B. Deplancke, J. Ferrer, **S. Mandrup**, G. Natoli, D. Plewczynski, A. Rada-Iglesias, S. Spicuglia (2022) Current challenges in understanding the role of enhancers in disease. *Nat. Struct. Nol. Biol. 12, 1148-58.*

144. B. Maniyadath*, Q. Zhang*, R.K. Gupta¤, **S. Mandrup**¤ (2023) Adipose Tissue at Single Cell Resolution. *Cell Metab. 35, 386-413.*

145. K. Wagh*, D.A Stavreva*, R.A.M. Jensen, V. Paakinaho, G. Fettweis, R.L. Schiltz, D. Wüstner, **S. Mandrup**, D.M Presman¤, A. Upadhyaya¤, G.L. Hager¤ (2023) Single-molecule tracking reveals two low-mobility states for chromatin and transcriptional regulators within the nucleus. *Sci. Adv.9, eade1122.*

146. L.K. Markussen, **S. Mandrup** (2023) Adipocyte Gene Expression in Obesity -insights gained and challenges ahead. *Curr. Opinion Gen. & Dev. 81, 102060.*

147. B.W. Strehlow, A. Schuster, W.R. Francis, L. Eckford-Soper, B. Kraft, R. McAllen, R. Nielsen, **S. Mandrup**, D.E. Canfield. (2023) Transcriptomic responses of sponge holobionts to in situ, seasonal anoxia and hypoxia. *PCI Zool., 100211.*

148. F. Boel, V. Akimov, M. Teuchler, M. K. Terkelsen, C.W. Wernberg, F.T. Larsen, P. Hallenborg, M.M. Lauridsen, A. Krag, **S. Mandrup**, K. Ravnskjær, B. Blagoev (2025) Deep Proteome Profiling of Metabolic Dysfunction-Associated Steatotic Liver Disease. *Comm. Med. 5, 56.*

149. A. Loft*, M. Emont*, A. Divoux[3], Adhideb Ghosh[4], Allon Wagner[5], Ann V. Hertzel[6], 4 Babukrishna Maniyadath[7], Bart Deplancke[8], Boxiang Liu[9], Camilla Scheele[10], Carey Lumeng[11], 5 Changhai Ding[12], Chenkai Ma[13], Christian Wolfrum[14], Clarissa Strieder-Barboza[15], Congru Li[16], 6 Danh D. Truong[17], David A. Bernlohr[18], Elisabet Stener-Victorin[19], Erin E. Kershaw[20], Esti Yeger-7 Lotem[21], Farnaz Shamsi[22], Hannah X. Hui[23], Henrique Camara[24], Jiawei Zhong[25], Joanna 8 Kalucka[26], Joseph A. Ludwig[27], Julie Semon[28], Jutta Jalkanen[29], Katie L. Whytock[30], Kyle D. 9 Dumont[31], Lauren M. Sparks[32], Lindsey A. Muir[33], Lingzhao Fang[34], Lucas Massier[35], Luis R. 10 Saraiva[36], Marc D. Beyer[37], Marc G. Jeschke[38], Marcelo A. Mori[39], Mariana Boroni[40], Martin J. 11 Walsh[41], Mary-Elizabeth Patti[42], Matthew D. Lynes[43], Matthias Blüher[44], Mikael Rydén[45], Natnael 12 Hamda[46], Nicole L. Solimini[47], Niklas Mejhert[48], Peng Gao[49], Rana K. Gupta[50], Rinki Murphy[51], 13 Saeed Pirouzpanah[52], Silvia Corvera[53], Su'an Tang[54], Swapan K. Das[55], Søren F. Schmidt[56], Tao 14 Zhang[57], Theodore M. Nelson[58], Timothy E. O'Sullivan[59], Vissarion Efthymiou[60], Yihan Tong[61], Yu-15 Hua Tseng[62], Human Cell Atlas Adipose Biological Network, **S. Mandrup***, E.D. Rosen* (2025) Towards a Consensus Atlas of Human and Mouse Adipose Tissue at Single Cell Resolution. *Nature Metab. 7, 875-894, 2025.*

Invited point of views, commentaries, and book chapters, not peer reviewed

1. T. Baldursson, C. Gram, J. Knudsen, K. Kristiansen & **S. Mandrup** (1995). Adipocyte differentiation is dependent on induction of the acyl-CoA binding protein. In *Signalling Mechanisms - from Transcription Factors to Oxidative Stress. Ed. by Lester Packer and Karel Wirtz. NATO ASI Series, pp. 365-374.*
2. **S. Mandrup** (1999). The acyl-CoA binding protein and adipocyte differentiation. *Adipocyte Biology and Hormone Signaling, edited by James M. Ntambi, IOS Press, The Netherlands, pp. 91-99.*
3. S.F. Schmidt, **S. Mandrup** (2011) Gene program specific regulation of PGC-1α activity. *Genes & Dev., 25:1453-1458.*
4. R. Siersbæk, **S. Mandrup** (2011) Transcriptional networks and chromatin remodeling controlling adipocyte differentiation. *Cold Spring Harb. Symp. Quant. Biol. 76, 247-255.*
5. A. Rauch, **S. Mandrup** (2012) Lighting the fat furnace without SFRP5. *J. Clin. Invest. 122*, *2349-52.*
6. R. Nielsen, **S. Mandrup** (2014) Genome-Wide Profiling of Transcription Factor Binding and Epigenetic Marks in Adipocytes by ChIP-seq. *Methods Enzymol. Methods of Adipose Tissue Biology 537A, 261-279.*
7. **S. Mandrup**, O. MacDougald, J. Moss, J. Ntambi, P. Pekala, Q.-Q. Tang, M. Wolfgang, D. Bernlohr (2014) In Memorium: M. Daniel Lane, 1930-2014. *Trends Endocrinol. Metab. 25, 437–439.*
8. **S. Mandrup** (2015) Genomes and fat. In Women in Metabolism: Part 1. *Cell Metabolism 21, 657.*
9. **S. Mandrup** (2015) Lessons Learned from Systems Approaches to Metabolism. *Trends Endocrinol. Metab 26, 669-70.*
10. A. Loft*, S.F. Schmidt*, **S. Mandrup** (2015) Modulating the genomic programming of adipocytes. *Cold Spring Harb. Symp. Quant. Biol. 80, 239-48.* (*equal contribution)
11. A. Rauch, **S. Mandrup** (2016) A genome-wide perspective on metabolism. *Handbook of Experimental Pharmacology: Metabolic Control 233, 1-28.*
12. B.D. Larsen*, M.R. Madsen*, R. Nielsen, **S. Mandrup** (2018) Chromatin immunoprecipitation for identification of protein-DNA interactions in human cells. *Methods and Protocols: Two Hybrid Systems 1797, 335-352*.
13. A. Loft *, M.W. Andersen, J.G.S. Madsen, **S. Mandrup** * (2022) Analysis of Enhancers and Transcriptional Networks in Thermogenic Adipocytes. In *Brown Adipose Tissue*. *Methods in Molecular Biology 2448, 155-175.*

Publications for public outreach

1. T. Tholstrup, E.-M. Straarup & **S. Mandrup** (2003) Har komponenter i mælkefedt en forebyggende rolle på velfærdssygdomme. *Mælkeritidende 24, 598-601*.
2. T. Tholstrup**,** E.-M. Straarup, P. Lund, **S. Mandrup** (2007) Kan komponenter i mælkefedt forebygge velfærdssygdomme? - Virkning af bioaktive CLA-typer i mennesker, dyr og celler. *Mælkeritidende 17, 376-379*.
3. L.K. Markussen, M.W. Andersen, **S. Mandrup** (2018) Plasticity of Thermogenic Adipocytes. BioZoom 2, 10-15.
4. Fedtceller, gener og livets kode. Temamagasin og inspirationskataloger til undervisning på 1.-9. klassetrin. Inspirationsmaterialer om ny naturvidenskabelig viden udarbejdet i samarbejde med Rambøll, Københavns Professionshøjskole og Børne- og Undervisningsministeriet. (2022)