

## List of publications - Charlotte Ling

Total of 90 original publications, 15 invited review papers and 8 book chapters since 1999  
H-index: 33; Number of citations ~5500

### Original publications

1. Backe MB, Andersson JL, Bacos K, Christensen DP, Hansen JB, Dorosz JJ, Gajhede M, Dahlby T, Bysani M, Kristensen LH, [Ling C](#), Olsen L, Mandrup-Poulsen T.  
Lysine demethylase inhibition protects pancreatic  $\beta$  cells from apoptosis and improves  $\beta$ -cell function.  
*Mol Cell Endocrinol*. 2017 Jul 4. pii: S0303-7207(17)30355-6. Impact factor: 4.0
2. Hjort L, Jørgensen SW, Gillberg L, Hall E, Brøns C, Frystyk J, Vaag AA, [Ling C](#).  
36 h fasting of young men influences adipose tissue DNA methylation of *LEP* and *ADIPOQ* in a birth weight-dependent manner.  
*Clin Epigenetics*. 2017 Apr 21;9:40. Impact factor: 5.0
3. Cajsa Davegårdh, Christa Broholm, Alexander Perfilyev, Tora Henriksen, Sonia Garcia-Calzon, Lone Pejjs, Ninna Schiøler Hansen, Petr Volkov, Rasmus Kjøbsted, Jørgen FP Wojtaszewski, Maria Pedersen, Bente Klarlund Pedersen, Dov B. Ballak, Charles A. Dinarello, Bas Heinhuis, Leo Joosten, Emma Nilsson, Allan Vaag, Camilla Sceelee and [Charlotte Ling](#)  
Abnormal epigenetic changes during differentiation of human skeletal muscle stem cells from obese subjects  
*BMC Medicine*, 2017, Feb 22;15(1):39. Impact factor: 8.1
4. Vanessa D. de Mello, Ashok Matte, Alexander Perfilyev, Ville Männistö, Emma Nilsson, Pirjo Käkälä, [Charlotte Ling](#)\* and Jussi Pihlajamäki\* \*Equal contribution  
Human liver epigenetic alterations in nonalcoholic steatohepatitis are related to insulin action  
*Epigenetics*, 2017, Apr 3;12(4):287-295. Impact factor: 4.8
5. Ninna Schiøler Hansen, Klaudia Stanisława Strasko, Line Hjort, Louise Kelstrup, Azadeh Houshmand-Øregaard, Maren Schrölkamp, Heidi Schiøler Schultz, Camilla Scheele, Bente Klarlund Pedersen, [Charlotte Ling](#), Tine Dalsgaard Clausen, Peter Damm, Allan Vaag and Christa Broholm  
Fetal hyperglycemia changes human preadipocyte function in adult life  
*The Journal of Clinical Endocrinology & Metabolism*, 2017, Apr 1;102(4):1141-1150. Impact factor: 6.5
6. Alexander Perfilyev, Ingrid Dahlman, Linn Gillberg, Fredrik Rosqvist, David Iggman, Petr Volkov, Emma Nilsson, Ulf Risérus and [Charlotte Ling](#)  
Impact of polyunsaturated and saturated fat overfeeding on the DNA methylation pattern in human adipose tissue: a randomized controlled trial  
*The American J of Clinical Nutrition*, 2017 Apr;105(4):991-1000. Impact factor: 6.8 Citations: 1
7. Petr Volkov, Karl Bacos, Jones K Ofori, Jonathan L Esguerra, Lena Eliasson, Tina Rönn and [Charlotte Ling](#).  
Whole-genome Bisulfite Sequencing of Human Pancreatic Islets Reveals Novel Differentially Methylated Regions in Type 2 Diabetes Pathogenesis.  
*Diabetes*. 2017 Jan 4. pii: db160996. doi: 10.2337/db16-0996 Impact factor: 8.6 Citations: 1
8. Bysani M, Perfilyev A, de Mello VD, Rönn T, Nilsson E, Pihlajamäki J and [Ling C](#).  
Epigenetic alterations in blood mirror age-associated DNA methylation and gene expression changes in human liver.  
*Epigenomics*. 2017 Feb;9(2):105-122. doi: 10.2217/epi-2016-0087. Impact factor: 4.4
9. Christian Baumeier, Sophie Saussenthaler, Anne Kammel, Markus Jähnert, Luisa Schlüter, Deike Hesse, Mickaël Canouil, Stéphane Lobbens, François Pattou, Emma Nilsson, Jussi Pihlajamäki, [Charlotte Ling](#), Philippe Froguel, Annette Schürmann and Robert W. Schwenk  
Hepatic *DPP4* DNA methylation associates with fatty liver  
*Diabetes*, 2017 Jan;66(1):25-35. doi: 10.2337/db15-1716. Impact factor: 8.6
10. Maria Keller, Lydia Hopp, Xuanshi Liu, Tobias Wohland, Kerstin Rohde; Raffaella Cencello, Matthias Klös, Fabian Eichelmann, Arne Dietrich, Michael R. Schön, Daniel Gärtner, Tobias Lohmann, Miriam Dreßler,

Michael Stumvoll, Peter Kovacs, Anna-Maria DiBlasio, **Charlotte Ling**, Hans Binder, Matthias Blüher and Yvonne Böttcher  
Genome-wide DNA promoter methylation and transcriptome analysis in human adipose tissue unravels novel candidate genes for obesity  
*Molecular Metabolism* 2016 Nov 16;6(1):86-100. Impact factor: 5.4

11. Mahboubeh Daneshpajooh, Karl Bacos, Madhu Bysani, Annika Bagge, Emilia Ottosson Laakso, Petter Vikman, Lena Eliasson, Hindrik Mulder and **Charlotte Ling**  
HDAC7 is overexpressed in human diabetic islets and impairs insulin secretion in rat islets and clonal beta cells.  
*Diabetologia*. 2016 Oct 29. Impact factor: 6.8 Citations: 1

12. Christa Broholm, Anders Henrik Olsson, Alexander Perfilyev, Linn Gilberg, Ninna Schiøler Hansen, Ashfaq Ali, Brynjulf Mortensen, **Charlotte Ling**, and Allan Vaag  
Human adipogenesis is associated with alterations in the epigenome and transcriptome  
*Epigenomics* 2016 In Press Impact factor: 4.4

13. Christa Broholm, Anders H Olsson, Alexander Perfilyev, Ninna S Hansen, Maren Schrölkamp, Klaudia S Strasko, Camilla Scheele, Brynjulf Mortensen, Sine W Jørgensen, **Charlotte Ling**, and Allan Vaag  
Epigenetic programming of adipose-derived stem cells in low birth weight subjects  
*Diabetologia*, 2016 Sept 14 Impact factor: 6.8 Citations: 2

14. Petr Volkov, Anders H. Olsson, Linn Gillberg, Sine W. Jørgensen, Charlotte Brøns, Karl-Fredrik Eriksson, Leif Groop, Per-Anders Jansson, Emma Nilsson, Tina Rönn, Allan Vaag and **Charlotte Ling**  
A genome-wide mQTL analysis in human adipose tissue identifies genetic variants associated with DNA methylation, gene expression and metabolic traits  
*PLoS One*, 2016 June 20 Impact factor: 3.5 Citations: 7

15. Tasnim Dayeh, Tiinamajja Tuomi, Peter Almgren, Alexander Perfilyev, Per-Anders Jansson, Jussi Pihlajamäki, Vanessa D. de Mello, Allan Vaag, Leif Groop, Emma Nilsson and **Charlotte Ling**  
DNA methylation at *ABCG1* and *PHOSPHOR* in blood DNA is associated with future type 2 diabetes risk  
*Epigenetics* 2016 Jul 2;11(7):482-8. Impact factor: 4.8 Citations: 3

16. Heshan Peiris, Michael D. Duffield, Joao Fadista, Claire F. Jessup, Vinder Kashmir, Amanda J. Genders, Sean L. McGee, Alyce M. Martin, Madiha Saiedi, Nicholas Morton, Michael A Cousin, **Charlotte Ling**, Peter Volkov, Tertius A. Hough, Elizabeth M.C. Fisher, Victor L.J. Tybulewicz, Jorge Busciglio, Pinar E Coskun, Ann Becker, Pavel V. Belichenko, William C. Mobley, Michael T. Ryan, Jeng Yie Chan, D. Ross Laybutt, P. Toby Coates, Sijun Yang, Leif Groop, Melanie A. Pritchard, Damien J. Keating  
A novel trisomy 21 genetic screening approach links RCAN1 expression to  $\beta$ -cell mitochondrial dysfunction in Type 2 diabetes  
*PLoS Genetics*, 2016 19;12(5):e1006033 Impact factor: 7.2 Citations: 5

17. Karl Bacos, Linn Gillberg, Petr Volkov, Anders H. Olsson, Torben Hansen, Oluf Pedersen, Anette Prior Gjesing, Hans Eiberg, Tiinamajja Tuomi, Peter Almgren, Leif Groop, Lena Eliasson, Allan Vaag, Tasnim Dayeh and **Charlotte Ling**  
Blood-based biomarkers reflect age-associated epigenetic changes in human pancreatic islets and associate with insulin secretion and diabetes.  
*Nature Communications*, 2016 Mar 31 Impact factor: 12.1 Citations: 12

18. Milana Kokosar, Anna Benrick, Alexander Perfilyev, Romina Fornes, Emma Nilsson, Manuel Maliqueo, Carl Johan Behre, Antonina Sazonova, Claes Ohlsson, **Charlotte Ling** and Elisabet Stener-Victorin  
Epigenetic and Transcriptional Alterations in Human Adipose Tissue of Polycystic Ovary Syndrome.  
*Scientific Reports*, 2016 May 9;6:25321 Impact factor: 6 Citations: 7

19. Linn Gillberg, Alexander Perfilyev, Charlotte Brøns, Martin Thomsen, Louise G. Grunnet, Petr Volkov, Fredrik Rosqvist, David Iggman, Ingrid Dahlman, Ulf Risérus, Tina Rönn, Emma Nilsson, Allan Vaag and **Charlotte Ling**  
Adipose tissue transcriptomics and epigenomics in low birth weight men and controls – role of high-fat overfeeding.  
*Diabetologia*, 2016 Volume: 59 Issue: 4 Pages: 799-812 Impact factor: 6.8 Citations: 7

20. Emma Nilsson, Ashok Matte, Alexander Perfilyev, Vanessa D. de Mello, Pirjo Käkälä, Jussi Pihlajamäki and **Charlotte Ling**  
Epigenetic alterations in human liver from subjects with type 2 diabetes in parallel with reduced folate levels.

*J of Clinical Endocrinology and Metabolism* 2015 Nov;100(11):E1491-501 Impact factor: 6.5 Citations 20

21. Carl Ekman, Targ Elgzyri, Kristoffer Ström, Peter Almgren, Hemang Parikh, Marloes Dekker Nitert, Tina Rönn, Fiona Manderson Koivula, **Charlotte Ling**, Åsa Tornberg, Per Wollmer, Karl-Fredrik Eriksson, Leif Groop, and Ola Hansson

Less pronounced response to exercise in healthy relatives to type 2 diabetics compared to controls.

*Journal of Applied Physiology* 2015 Nov 1;119(9):953-60. Impact factor: 3.8 Citations: 3

22. Elisabet Agardh, Annika Lundstig, Alexander Perfilyev, Petr Volkov, Tove Tove Freiburghaus, Eero Lindholm, Tina Rönn, Carl-David Agardh and **Charlotte Ling**

Genome-wide analysis of DNA methylation in subjects with type 1 diabetes identifies epigenetic modifications associated with proliferative diabetic retinopathy

*BMC Medicine* 2015 Aug 6;13:182. Impact factor: 8 Citations 15

23. Tina Rönn, Petr Volkov, Linn Gillberg, Milana Kokosar, Alexander Perfilyev, Anna Louisa Jacobsen, Sine W. Jørgensen, Charlotte Brøns, Per Anders Jansson, Karl-Fredrik Eriksson, Oluf Pedersen, Torben Hansen, Leif Groop, Elisabet Stener-Victorin, Allan Vaag, Emma Nilsson and **Charlotte Ling**

Age, BMI and HbA1c levels are associated with altered DNA methylation and mRNA expression patterns in human adipose tissue and identification of epigenetic biomarkers in blood.

*Human Molecular Genetics* 2015 Jul 1;24(13):3792-813. Impact factor: 6.8 Citations: 52

24. Dahlman I, Sinha I, Gao H, Brodin D, Thorell A, Rydén M, Andersson DP, Henriksson J, Perfilyev A, **Ling C**, Dahlman-Wright K, Arner P.

The fat cell epigenetic signature in post-obese women is characterized by global hypomethylation and differential DNA methylation of adipogenesis genes.

*Int J Obes (Lond)*. 2015 Mar 18. doi: 10.1038/ijo.2015.31. Impact factor: 5.2 Citations: 16

25. Elin Hall, Petr Volkov, Tasnim Dayeh, Jonathan Lou S. Esguerra, Sofia Salö, Lena Eliasson, Tina Rönn, Karl Bacos and **Charlotte Ling**

Sex differences in the genome-wide DNA methylation pattern and impact on gene expression, microRNA levels and insulin secretion in human pancreatic islets

*Genome Biology*, 2014 Dec 3;15(12):522. Impact factor: 11.9 Citations: 22

26. Anders H Olsson, Petr Volkov, Karl Bacos, Tasnim Dayeh, Elin Hall, Emma A Nilsson, Claes Ladenvall, Tina Rönn and **Charlotte Ling**

Genome-Wide Associations between Genetic and Epigenetic Variation Influence mRNA Expression and Insulin Secretion in Human Pancreatic Islets.

*PLoS Genetics*, 2014 Nov 6;10(11):e1004735. Impact factor: 9.4 Citations: 37

27. Elin Hall, Petr Volkov, Tasnim Dayeh, Karl Bacos, Tina Rönn, Marloes Dekker Nitert and **Charlotte Ling**  
Effects of palmitate on genome-wide mRNA expression and DNA methylation patterns in human pancreatic islets.

*BMC Medicine*, 2014, Jun 23;12:103.

Impact factor: 8.1 Citations: 31

28. Emma Nilsson, Per Anders Jansson, Alexander Perfilyev, Petr Volkov, Maria Pedersen, Maria K Svensson, Pernille Poulsen, Joao Fadista, Tina Rönn, Bente Klarlund-Pedersen, Camilla Scheele, Allan Vaag and **Charlotte Ling**

Altered DNA methylation and differential expression of genes influencing metabolism and inflammation in adipose tissue from monozygotic twin pairs discordant for type 2 diabetes.

*Diabetes*, 2014, Sep;63(9):2962-76.

Impact factor: 8.6

Citations: 85

29. Tina Rönn, Petr Volkov, Åsa Tornberg, Targ Elgzyri, Ola Hansson, Karl-Fredrik Eriksson, Leif Groop and **Charlotte Ling**

Extensive changes in the transcriptional profile of human adipose tissue including genes involved in oxidative phosphorylation after a six months exercise intervention.

*Acta Physiologica* 2014 May;211(1):188-200. Impact factor: 4.4

Citations: 17

30. Stine C. Jacobsen, Linn Gillberg, Jette Bork-Jensen, Rasmus Ribel-Madsen, Ester Lara, Vincenzo Calvanese, **Charlotte Ling**, Augustin F. Fernandez, Mario F. Fraga, Pernille Poulsen, Charlotte Brøns and Allan Vaag

Young men with low birth weight exhibit decreased plasticity of genome-wide muscle DNA methylation by high-fat overfeeding

*Diabetologia*, 2014 Feb 26 Impact factor: 6.8 Citations: 27

31. Inga Prokopenko, Wenny Poon, Reedik Mägi, Rashmi Prasad, Albert Salehi, Peter Almgren, Peter Osmark, Nabila Bouatia-Naji, Nils Wierup, Tove Fall, Alena Stančáková, Adam Barker, Vasiliki Lagou, Clive Osmond,

**Commented [e1]:**

As of March/April 2016, this [highly cited paper](#) received enough citations to place it in the top 1% of the academic field of Clinical Medicine based on a highly cited threshold for the field and publication year.

Weijia Xie, Jari Lahti, Anne U. Jackson, Yu-Ching Cheng, Jie Liu, Jeffrey R. O'Connell, Paul A. Blomstedt, Joao Fadista, Sami Alkayyali, Tasnim Dayeh, Emma Ahlqvist, Jalal Taneera, Cecile Leceour, Ashish Kumar, Ola Hansson, Karin Hansson, Benjamin F. Voight, Hyun Min Kang, Claire Levy-Marchal, Vincent Vatin, Aarno Palotie, Ann-Christine Syvänen, Andrea Mari, Michael N. Weedon, Ruth J. Loos, Ken K. Ong, Peter Nilsson, Bo Isomaa, Tiinamaija Tuomi, Nicholas J. Wareham, Michael Stumvoll, Elisabeth Widen, Timo A. Lakka, Claudia Langenberg, Anke Tönjes, Rainer Rauramaa, Johanna Kuusisto, Timothy M. Frayling, Philippe Froguel, Mark Walker, Johan G. Eriksson, **Charlotte Ling**, Peter Kovacs, Erik Ingelsson, Mark I. McCarthy, Alan R. Shuldiner, Kristi D. Silver, Markku Laakso, Leif Groop, Valeriya Lyssenko

A Central Role for *GRB10* in Regulation of Islet Function in Man  
*PLoS Genetics*, 2014 Apr 3;10(4):e1004 Impact factor: 9.4 Citations: 30

32. Tasnim Dayeh, Petr Volkov, Sofia Salö, Elin Hall, Emma Nilsson, Anders H. Olsson, Clare L. Kirkpatrick, Claes Wollheim, Lena Eliasson, Tina Rönn, Karl Bacos and **Charlotte Ling**  
Genome-wide DNA methylation analysis of human pancreatic islets from type 2 diabetic and non-diabetic donors identifies candidate genes that influence insulin secretion

*PLoS Genetics*, 2014 Mar 6;10(3):e1004160. Impact factor: 9.4 Citations: 118

33. Elin Hall, Tasnim Dayeh, Clare Kirkpatrick, Claes Wollheim, Marloes Dekker Nitert and **Charlotte Ling**  
DNA methylation of the glucagon-like peptide 1 receptor (GLP1R) in human pancreatic islets.

*BMC Med Genet.* 2013 Jul 23 Impact factor: 2.6 Citations: 22

34. Tina Rönn, Petr Volkov, Cajsa Davegård, Tasnim Dayeh, Elin Hall, Targ Elgzyri, Åsa Tornberg, Marloes Dekker-Nitert, Karl-Fredrik Eriksson, Helena Jones, Leif Groop and **Charlotte Ling**

A six months exercise intervention influences the epigenetic pattern in human adipose tissue

*PLoS Genetics* 2013 Jun;9(6):e1003572. Impact factor: 9.4 Citations: 164

35. Siri Malmgren, Peter Spégel, Anders Danielsson, Cecilia Nagorny, Lotta Andersson, Marloes Dekker Nitert, Martin Ridderstråle, Hindrik Mulder and **Charlotte Ling**

Coordinate changes in histone modifications, mRNA levels and metabolite profiles in clonal INS-1 832/13  $\beta$ -cells accompany functional adaptations to lipotoxicity

*The Journal of Biological Chemistry* 2013 Apr 26;288(17):11973-87. Impact factor: 5.1 Citations: 26

36. Linn Gillberg, Stine Jacobsen, Rasmus Ribøl-Madsen, Trine W. Boesgaard, **Charlotte Ling**, Oluf Pedersen, Torben Hansen and Allan Vaag

Does DNA Methylation of PPARGC1A Influence Insulin Action in First Degree Relatives of Patients with Type 2 Diabetes?

*PLoS ONE* 2013;8(3):e58384. Impact factor: 4.2 Citations: 13

37. Tasnim A. Dayeh, Anders H. Olsson, Peter Volkov, Peter Almgren, Tina Rönn and **Charlotte Ling**  
Identification of CpG-SNPs associated with type 2 diabetes and differential DNA methylation in human pancreatic islets.

*Diabetologia* 2013 May;56(5):1036-46. Impact factor: 6.8 Citations: 77

38. Marloes Dekker Nitert, Tasnim Dayeh, Peter Volkov, Targ Elgzyri, Elin Hall, Emma Nilsson, Beatrice T. Yang, Stefan Lang, Hemang Parikh, Ylva Wessman, Holger Weishaupt, Joanne Attema, Mia Ländin, Nils Wierup, Peter Almgren, Per-Anders Jansson, Tina Rönn, Ola Hansson, Karl-Fredrik Eriksson, Leif Groop and **Charlotte Ling**

Impact of an Exercise Intervention on DNA Methylation in Skeletal Muscle from First Degree Relatives of Patients with Type 2 Diabetes

*Diabetes* 2012 Dec;61(12):3322-32 Impact factor: 8.6 Citations: 110

39. Stine Jacobsen, Charlotte Brøns, Jette Bork-Jensen, Rasmus Ribøl-Madsen, Elin Hall, Ester Lara, Vincenzo Calvanese, Emma Nilsson, **Charlotte Ling**, Agustin F. Fernandez, Mario F. Fraga, Pernille Poulsen, Allan Vaag

Effects of short-term high-fat overfeeding on genome-wide DNA methylations in skeletal muscle of healthy young men

*Diabetologia* 2012 Dec;55(12):3341-9. Impact factor: 6.8 Citations: 65

40. Sofia A. Andersson, Anders H. Olsson, Jonathan L.S. Esguerra, Emilia Heimann, Claes Ladenvall, Anna Edlund, Albert Salehi, Jalal Taneera, Eva Degerman, Leif Groop, **Charlotte Ling** and Lena Eliasson

Reduced insulin secretion correlates with decreased expression of exocytotic genes in pancreatic islets from patients with type 2 diabetes.

*Molecular and Cellular Endocrinology* 2012 Nov 25;364(1-2):36-45. Impact factor: 4.0 Citations: 36

41. Shafqat Ahmad, Alexandros Heraclides, Qi Sun, Targ Elgzyri, Tina Rönn, **Charlotte Ling**, Bo Isomaa, Karl-Fredrik Eriksson, Leif Groop, Paul W. Franks, Ola Hansson

Commented [e2]: As of March/April 2017, this [highly cited paper](#) received enough citations to place it in the top 1% of the academic field of Molecular Biology & Genetics based on a highly cited threshold for the field and publication year.

Commented [e3]: As of March/April 2017, this [highly cited paper](#) received enough citations to place it in the top 1% of the academic field of Clinical Medicine based on a highly cited threshold for the field and publication year.

- Telomere length in blood and skeletal muscle in relation to measures of glycaemia and insulinaemia.  
*Diabetic Medicine* 2012 Oct;29(10):e377-81. Impact factor: 3.2 Citations: 11
42. Beatrice T. Yang, Tasnim A. Dayeh, Petr A. Volkov, Clare L. Kirkpatrick, Siri Malmgren, Xingjun Jing, Erik Renström, Claes B. Wollheim, Marloes Dekker Nitert, and **Charlotte Ling**  
Increased DNA methylation and decreased expression of *PDX-1* in pancreatic islets from patients with type 2 diabetes.  
*Molecular Endocrinology* 2012 Jul;26(7):1203-12. Impact factor: 4.9 Citations: 90
43. Elgzyri T., Parikh H., Zhou Y., Dekker Nitert M., Rönn T., Segerström Å. B., **Ling C.**, Franks P. W., Wollmer P., Eriksson K. F., Groop L, Hansson O  
First degree relatives of type 2 diabetic patients have reduced expression of genes involved in fatty acid metabolism in skeletal muscle  
*Journal of Clinical Endocrinology and Metabolism* 2012 Jul;97(7). Impact factor: 6.4 Citations: 10
44. Jelena A. Stamenkovic, Anders H. Olsson, Cecilia L. Nagorny, Siri Malmgren, Marloes Dekker-Nitert, **Charlotte Ling**\* and Hindrik Mulder\* \*Equal contribution  
Regulation of Core CLOCK genes in human islets  
*Metabolism* 2012 Jul;61(7):978-85. Impact factor: 2.7 Citations: 31
45. Gertrud Kacerovsky-Bielez, Michaela Kacerovsk, Marek Chmelik, Michaela Farukuoye, **Charlotte Ling**, Rochus Pokan, Harald Tschan, Julia Szendroedi, Albrecht I. Schmid, Stephan Gruber, Michael Wolzt, Ewald Moser, Giovanni Pacini, Gerhard Smekal, Leif Groop and Michael Roden  
A single nucleotide polymorphism associates with the response of muscle ATP synthesis to long-term exercise training in relatives of type 2 diabetic humans  
*Diabetes Care* 2012 Feb;35(2):350-7 Impact factor: 11.8 Citations: 14
46. Zhen Yang, Jie Wen, Qin Li, Xiaoming Tao, Zi Yeb, Min He, Weiwei Zhang, Ying Huang, Lili Chen, **Charlotte Ling**, Shen Qu and Renming Hu  
PPARG gene Pro12Ala variant contributes to the development of non-alcoholic fatty liver in middle-aged and older Chinese population.  
*Molecular and Cellular Endocrinology* 2012 Jan 2;348(1):255-9. Impact factor: 4.1 Citations: 17
47. Matteo Riva, Ulrikke Voss, Marloes Dekker-Nitert, Ramasri Sathanoori, Andreas Lindqvist, **Charlotte Ling** and Nils Wierup  
Nesfatin-1 stimulates glucagon secretion and NUCB2 expression is reduced in islets of Langerhans from human type 2 diabetic subjects.  
*Cell and tissue research* 2011 Dec;346(3):393-405. Impact factor: 3.1 Citations: 34
48. Anders H Olsson, Beatrice T Yang, Elin Hall, Jalal Taneera, Albert Salehi, Marloes Dekker Nitert and **Charlotte Ling**  
Decreased expression of genes involved in oxidative phosphorylation in human pancreatic islets from patients with type 2 diabetes.  
*European Journal of Endocrinology* 2011 Oct;165(4):589-95. Impact factor: 3.7 Citations: 24
49. Anders H Olsson, Tina Rönn, Tarq Elgzyri, Ola Hansson, Karl-Fredrik Eriksson, Leif Groop, Allan Vaag, Pernille Poulsen and **Charlotte Ling**  
The expression of myosin heavy chain (MHC) genes in human skeletal muscle is related to metabolic characteristics involved in the pathogenesis of type 2 diabetes  
*Molecular Genetics and Metabolism* 2011 Jul;103(3):275-81. Impact factor: 2.9 Citations: 7
50. Anders H Olsson, Tina Rönn, Claes Lادنvall, Hemang Parikh, Bo Isomaa, Leif Groop and **Charlotte Ling**  
Two common genetic variants near nuclear encoded OXPHOS genes are associated with insulin secretion *in vivo*  
*European Journal of Endocrinology* 2011 May;164(5):765-71. Impact factor: 3.6 Citations: 14
51. Ionel Sandovici, Noel H. Smith, Marloes Dekker Nitert, Matthew Ackers-Johnson, Santiago Uribe-Lewis, Yoko Ito, R. Huw Jones, Victor E. Marquez, William J. Cairns, Mohammed Tadayyon, Laura P. O'Neill, Adele Murrell, **Charlotte Ling**, Miguel Constância and Susan E. Ozanne  
Maternal diet and aging alter the epigenetic control of a promoter-enhancer interaction at *Hnf4a* gene in rat pancreatic islets  
*PNAS* 2011 Mar 29;108(13):5449-54. Impact factor: 9.7 Citations: 155
52. Thomas Koeck, Anders H Olsson, Marloes Dekker Nitert, Vladimir V. Sharoyko, Claes Lادنvall, Olga Kotova, Erwin Reiling, Tina Rönn, Hemang Parikh, Jalal Taneera, Johan G Eriksson, Metodi D Metodieiev, Nils-

- Göran Larsson, Alexander Balhuizen, Holger Luthman, Alena Stančáková, Johanna Kuusisto, Markku Laakso, Pernille Poulsen, Allan Vaag, Leif Groop, Valeriya Lyssenko, Hindrik Mulder and **Charlotte Ling**  
A common variant in *TFB1M* is associated with reduced insulin secretion and increased future risk of type 2 diabetes.  
*Cell Metabolism* 2011 Jan 5;13(1):80-91. Impact factor: 17.5 Citations: 33
53. Beatrice T. Yang, Tasnim A. Dayeh, Clare L. Kirkpatrick, Jalal Taneera, Rajesh Kumar, Leif Groop, Claes B. Wollheim, Marloes Dekker Nitert and **Charlotte Ling**  
Insulin promoter DNA methylation correlates negatively with insulin gene expression and positively with HbA<sub>1c</sub> levels in human pancreatic islets.  
*Diabetologia* 2011 Feb;54(2):360-7. Impact factor: 6.8 Citations: 78
54. Zhen Yang, Jie Wen, Xiaoming Tao, Bin Lu, Yanping Du, Mei Wang, Xuanchun Wang, Weiwei Zhang, Wei Gong, **Charlotte Ling**, Songhua Wu and Renming Hu  
Genetic variation in the GCKR gene is associated with non-alcoholic fatty liver disease in Chinese people.  
*Mol Biol Rep.* 2011 Feb;38(2):1145-50. Impact factor: 3 Citations: 23
55. Louise A Nilsson, Anders H Olsson, Bo Isomaa, Leif Groop, Håkan Billig and **Charlotte Ling**  
A common variant near the PRL gene is associated with increased adiposity in males.  
*Mol Genet Metab.* 2011 Jan;102(1):78-81. Impact factor: 2.9 Citations: 12
56. Zhen Yang, Zhaoyun Zhang, Jie Wen, Xuanchun Wang, Bin Lu, Zhihong Yang, Weiwei Zhang, Mei Wang, Xiaocheng Feng, **Charlotte Ling**, Songhua Wu and Renming Hu  
Elevated Serum Chemokine CXC Ligand 5 Levels Are Associated with Hypercholesterolemia But Not a Worsening of Insulin Resistance in Chinese People  
*Journal of Clinical Endocrinology and Metabolism* 2010 Aug;95(8):3926-32. Impact factor: 6.4 Citations: 15
57. Charlotte Brøns, Stine Jacobsen, Emma Nilsson, Tina Rönn, Christine B. Jensen, Heidi Storgaard, Pernille Poulsen, Leif Groop, **Charlotte Ling**, Arne Astrup and Allan Vaag  
Deoxyribonucleic Acid Methylation and Gene Expression of PPARGC1A in Human Muscle Is Influenced by High-Fat Overfeeding in a Birth-Weight-Dependent Manner.  
*Journal of Clinical Endocrinology and Metabolism* 2010 Jun;95(6):3048-56. Impact f: 6.4 Citations: 92
58. Erwin Reiling, **Charlotte Ling**, André G. Uitterlinden, Esther van 't Riet, Laura M.C. Welschen, Claes Ladenvall, Peter Almgren, Valeriya Lyssenko, Giel Nijpels, Els C. van Hove, Johannes A. Maassen, Eco J. C. de Geus, Dorret I. Boomsma, Jacqueline M. Dekker, Leif Groop, Gonke Willemsen and Leen M. 't Hart  
The association of mitochondrial content with prevalent and incident type 2 diabetes  
*Journal of Clinical Endocrinology and Metabolism* 2010 Apr;95(4):1909-15. Impact f: 6.4 Citations: 11
59. Jie Wen, Tina Rönn, Anders Olsson, Zhen Yang, Bin Lu, Leif Groop, **Charlotte Ling**<sup>†</sup> and Renming Hu<sup>†</sup>  
Investigation of type 2 diabetes risk alleles in a Han Chinese cohort support *CDKN2A/B*, *CDKAL1* and *TCF7L2* as susceptibility genes across different populations. <sup>†</sup>Equal contribution  
*PLoS ONE* 2010 Feb 10;5(2):e9153. Impact factor: 4.2 Citations: 80
60. Siri Malmgren, David Nicholls, Karl Bacos, Rolf Wibom, **Charlotte Ling**, Hindrik Mulder and Vladimir V. Sharoyko  
Tight coupling between glucose and mitochondrial metabolism in clonal beta-cells is required for robust insulin secretion  
*The Journal of Biological Chemistry* 2009, 284(47):32395-404. Impact factor: 5.0 Citations: 52
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### **Invited review papers and commentaries over the last five years**

1. Emma Nilsson and **Charlotte Ling**  
DNA methylation links genetics, fetal environment and an unhealthy lifestyle to the development of type 2 diabetes  
*Clinical Epigenetics, In Press* 2017 Impact factor: 5.0

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Epigenetic markers to further understand insulin resistance.  
*Diabetologia.* 2016 Nov;59(11):2295-7. Impact factor: 6.8 Citations: 3

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Using genomic information to guide weight management: From universal to precision treatment.  
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Does epigenetic dysregulation of pancreatic islets contribute to impaired insulin secretion and type 2 diabetes?  
*Biochemistry and Cell Biology.* 2015, Aug 4:1-11.

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DNA methylation as a diagnostic and therapeutic target in the battle against Type 2 diabetes.  
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**11. Charlotte Ling and Tina Rönn**

Epigenetic adaptation to regular exercise in humans

*Drug Discovery Today*, 2014, Mar14. Impact factor: 6.4 Citations: 18

**12. Tina Rönn and Charlotte Ling**

Effect of exercise on DNA methylation and metabolism in human adipose tissue and skeletal muscle

*Epigenomics*, Dec 2013, Vol. 5, No. 6, Pages 603-605 Impact factor: 5.2 Citations: 7

**13. Paul W Franks and Charlotte Ling**

Epigenetics and obesity: the devil is in the details.

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Mitochondrial dysfunction in pancreatic beta-cells in Type 2 Diabetes

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Epigenetics: a molecular link between environmental factors and type 2 diabetes

*Diabetes* 2009, 58(12):2718-25. Impact factor: 8.6 Citations: 217

**Invited book chapters**

**1. Charlotte Ling and Tina Rönn**

Genome-Wide DNA and Histone Modification Studies in Metabolic Disease

*Book Series: Translational Epigenetics Series* Pages: 255-270 Published: 2016

**2. Charlotte Ling, Lorenzo Pasquali**

Epigenetics in type 2 diabetes

*Chapter in The Genetics of Type 2 Diabetes and Related Traits: Biology, Physiology and Translation (Springer)*

**3. Charlotte Ling**

Epigenetic modifications and type 2 diabetes in humans

*Chapter 7, Genetics in Diabetes: Type 2 Diabetes & Related Traits (Karger)*

**4. Charlotte Ling and Tina Rönn**

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*Chapter 17, Epigenetics in human disease (Elsevier)*

**5. Charlotte Ling**

Epigenetics in the pathophysiology of type 2 diabetes

*Chapter 1, section 4, Nutritional and therapeutic intervention for diabetes and metabolic syndrome (Elsevier)*

**6. Charlotte Ling, Marloes Dekker Nitert and Tina Rönn**

Epigenetics and type II diabetes

*Chapter 9, Epigenetic Aspects of Chronic Diseases, (Springer)*

**7. Leif Groop and Charlotte Ling**

Basics of molecular genetics: Lessons from type 2 diabetes

*Chapter 20, Clinical Research in Diabetes and Metabolism: Methods and Techniques (John Wiley & sons)*

**8. L. Groop, V. Lyssenko, C. Ling and M. Orho-Melander**

Genetic Epidemiology of Type 2 Diabetes

*Chapter 8, Epidemiology of Diabetes Mellitus, (Second Edition, John Wiley & sons)*

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