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## Employment

### Associate Professor - Promotion Programme

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### Senior Scientist

Statens Serum Institut

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1 Jan 2015 → 1 Jan 2018

### Senior Research Fellow

Children's Hospital Boston, Boston, Massachusetts

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1 Aug 2011 → 31 Dec 2015

## Research outputs

### An RNA-seq atlas of mouse brain areas during fasting and diet-induced obesity

Todorov, Petar Vladimirov, Klein, A. B., Egerod, Kristoffer Lihme, Clemmensen, Christoffer & Pers, Tune H, 2024, In: Scientific Data. 11, 8 p., 44.

### Protection against overfeeding-induced weight gain is preserved in obesity but does not require FGF21 or MC4R

Lund, Camilla, Ranea-Robles, Pablo, Falk, S., Belmont-Rausch, Dylan Matthew, Skovbjerg, G., Vibe-Petersen, V. K., Krauth, Nathalie, Skytte, J. L., Vana, V., Roostalu, U., Pers, Tune H, Lund, Jens & Clemmensen, Christoffer, 2024, In: Nature Communications. 15, 1192.

### Protocol for flow cytometry-assisted single-nucleus RNA sequencing of human and mouse adipose tissue with sample multiplexing

Gulko, A., Essene, A., Belmont-Rausch, Dylan Matthew, Veregge, M., Pant, D., Tenen, D., Kapel, Benedicte Schultz, Emont, M. P., Pers, Tune H, Rosen, E. D. & Tsai, L. T., 2024, In: STAR Protocols. 5, 1, 21 p., 102893.

### A single-cell, time-resolved profiling of *Xenopus* mucociliary epithelium reveals nonhierarchical model of development

Lee, J., Møller, A. F., Chae, S., Bussek-Sedzinski, Alexandra Maria, Park, T. J., Kim, Y., Lee, H. S., Pers, Tune H, Kwon, T., Sedzinski, Jakub & Natarajan, K. N., 2023, In: Science Advances. 9, 14, p. eadd5745 23 p.

### Adipogenic and SWAT cells separate from a common progenitor in human brown and white adipose depots

Palani, Nagendra Prasad, Horvath, C., Timshel, P. N., Folkertsma, P., Grønning, Alexander GB, Henriksen, T. I., Peijs, Lone, Jensen, V. H., Sun, W., Jespersen, N. Z., Wolfrum, C., Pers, Tune H, Nielsen, S. & Schéele, Camilla Charlotte Nielsen, 2023, In: Nature Metabolism. 5, 6, p. 996-1013 18 p.

### Assessing household lifestyle exposures from consumer purchases, the My Purchases cohort

Møller, F. T., Junker, T. G., Sørensen, Kathrine Kold, Eves, C., Wohlfahrt, J., Dillner, J., Torp-Pedersen, Christian, Wilkowski, B., Chong, S., Pers, Tune H, Yakimov, V., Müller, H., Ethelberg, Steen & Melbye, M., 2023, In: Scientific Reports. 13, 12 p., 21601.

### **GLP-1 and nicotine combination therapy engages hypothalamic and mesolimbic pathways to reverse obesity**

Falk, S., Petersen, Jonas Odgaard, Svendsen, C. S. A., Leguizamon, Cesar Ramon Romero, Jørgensen, Søren Heide, Krauth, Nathalie, Ludwig, M. Q., Jørgensen, Kathrine Lundø, Roostalu, U., Hjort-Gregersen, G. S., Nielsen, D. A. G., Ejdrup, Aske Lykke, Pers, Tune H, Dmytriyeva, O., Hecksher-Soerensen, J., Gether, Ulrik, Kohlmeier, Kristi Anne & Clemmensen, Christoffer, 2023, In: Cell Reports. 42, 5, 18 p., 112466.

### **GWAS of random glucose in 476,326 individuals provide insights into diabetes pathophysiology, complications and treatment stratification**

Lagou, V., Jiang, L., Ulrich, A., Zudina, L., González, K. S. G., Balkhiyarova, Z., Faggian, A., Maina, J. G., Chen, S., Todorov, P. V., Sharapov, S., David, A., Marullo, L., Mägi, R., Rujan, R. M., Ahlqvist, E., Thorleifsson, G., Gao, H., Evangelou, E., Benyamin, B. & 78 others, Scott, R. A., Isaacs, A., Zhao, J. H., Willems, S. M., Johnson, T., Gieger, C., Grallert, H., Meisinger, C., Müller-Nurasyid, M., Strawbridge, R. J., Goel, A., Rybin, D., Albrecht, E., Jackson, A. U., Stringham, H. M., Corrêa, I. R., Farber-Eger, E., Steinthorsdottir, V., Uitterlinden, A. G., Munroe, P. B., Brown, M. J., Schmidberger, J., Holmen, O., Thorand, B., Hveem, K., Wilsgaard, T., Mohlke, K. L., Wang, Z., den Hoed, M., Shmeliov, A., den Hoed, M., Loos, Ruth, Kratzer, W., Haenle, M., Koenig, W., Boehm, B. O., Tan, T. M., Tomas, A., Salem, V., Barroso, I., Tuomilehto, J., Boehnke, M., Florez, J. C., Hamsten, A., Watkins, H., Njølstad, I., Wichmann, H. E., Caulfield, M. J., Khaw, K. T., van Duijn, C. M., Hofman, A., Wareham, N. J., Langenberg, C., Whitfield, J. B., Martin, N. G., Montgomery, G., Scapoli, C., Tzoulaki, I., Elliott, P., Thorsteinsdottir, U., Stefansson, K., Brittain, E. L., McCarthy, M. I., Froguel, P., Sexton, P. M., Wootton, D., Groop, L., Dupuis, J., Meigs, J. B., Deganutti, G., Demirkan, A., Pers, Tune H, Reynolds, C. A., Aulchenko, Y. S., Kaakinen, M. A., Jones, B., Prokopenko, I. & van Duijn, C. M., 2023, In: Nature Genetics. 55, 9, p. 1448-1461 14 p.

### **Molecular Connectomics Reveals a Glucagon-Like Peptide 1 Sensitive Neural Circuit for Satiety**

Webster, A. N., Becker, J. J., Li, C., Schwalbe, D. C., Kerspern, D., Karolczak, E. O., Godschall, E. N., Belmont-Rausch, Dylan Matthew, Pers, Tune H, Lutas, A., Habib, N., Güler, A. D., Krashes, M. J. & Campbell, J. N., 2023, bioRxiv, 47 p.

### **Molecular Consequences of Peripheral Influenza A Infection on Cell Populations in the Murine Hypothalamus**

Lemcke, René, Jensen, Christine Egebjerg, Pagh-Berendtsen, Nicolai, Egerod, Kristoffer Lihme, Thomsen, Allan Randrup, Pers, Tune H, Christensen, Jan Pravsgaard & Kornum, Birgitte Rahbek, 2023, 31 p.

### **Molecular consequences of peripheral Influenza A infection on cell populations in the murine hypothalamus**

Lemcke, René, Jensen, Christine Egebjerg, Pagh-Berendtsen, Nicolai, Egerod, Kristoffer Lihme, Thomsen, Allan Randrup, Pers, Tune H, Christensen, Jan Pravsgaard & Kornum, Birgitte Rahbek, 2023, In: eLife. 12, 28 p., RP87515.

### **Elucidating the relationship between migraine risk and brain structure using genetic data**

International Headache Genetics Consortium, I. H. G. C., 1 Sep 2022, In: Brain. 145, 9, p. 3214-3224 11 p.

### **A single-cell atlas of human and mouse white adipose tissue**

Emont, M. P., Jacobs, C., Essene, A. L., Pant, D., Tenen, D., Colleluori, G., Di Vincenzo, A., Jørgensen, A. M., Dashti, H., Stefek, A., McGonagle, E., Strobel, S., Laber, S., Agrawal, S., Westcott, G. P., Kar, A., Veregge, M. L., Gulko, A., Srinivasan, H., Kramer, Z. & 18 others, De Filippis, E., Merkel, E., Ducie, J., Boyd, C. G., Gourash, W., Courcoulas, A., Lin, S. J., Lee, B. T., Morris, D., Tobias, A., Khera, A. V., Claussnitzer, M., Pers, Tune H, Giordano, A., Ashenberg, O., Regev, A., Tsai, L. T. & Rosen, E. D., 2022, In: Nature. 603, p. 926-933

### **Genetic analysis of dietary intake identifies new loci and functional links with metabolic traits**

Merino, J., Dashti, H. S., Sarnowski, C., Lane, J. M., Todorov, Petar Vladimirov, Udler, M. S., Song, Y., Wang, H., Kim, J., Tucker, C., Campbell, J., Tanaka, T., Chu, A. Y., Tsai, L., Pers, Tune H, Chasman, D., Rutter, M. K., Dupuis, J., Florez, J. C. & Saxena, R., 2022, In: Nature Human Behaviour. 6, p. 155-163 17 p.

### **Genome-wide association analyses of physical activity and sedentary behavior provide insights into underlying mechanisms and roles in disease prevention**

Wang, Z., Emmerich, A., Pillon, N. J., Moore, T., Hemerich, D., Cornelis, M. C., Mazzaferro, E., Broos, S., Ahluwalia, T. S., Bartz, T. M., Bentley, A. R., Bielak, L. F., Chong, M., Chu, A. Y., Berry, D., Dorajoo, R., Dueker, N. D., Kasbohm, E., Feenstra, B., Feitosa, M. F. & 32 others, Gieger, C., Graff, M., Hall, L. M., Haller, T., Hartwig, F. P., Hillis, D. A., Huikari, V., Heard-Costa, N., Holzapfel, C., Jackson, A. U., Johansson, A., Jørgensen, A. M., Kaakinen, M. A., Karlsson, R., Kerr, K. F., Kim, B., Koolhaas, C. M., Kutalik, Z., Pacolet, A., Zhao, J., Balslev-Harder, M. N., Grarup, Niels, Linneberg, Allan René, Hansen, Torben, Melbye, M., Pedersen, Oluf Borbye, Pers, Tune H, Sørensen, Thorkild I.A., Zierath, Juleen R, Kilpeläinen, Tuomas O., Loos, Ruth & LifeLines Cohort Study, L. C. S., 2022, In: Nature Genetics. 54, p. 1332-1344 25 p.

### **Genome-wide association study of febrile seizures implicates fever response and neuronal excitability genes**

Skotte, L., Fadista, J., Bybjerg-Grauholm, J., Appadurai, V., Hildebrand, M. S., Hansen, T. F., Banasik, K., Grove, J., Albiñana, C., Geller, F., Bjurström, C. F., Vilhjálmsson, B. J., Coleman, M., Damiano, J. A., Burgess, R., Scheffer, I. E., Pedersen, O. B. V., Erikstrup, C., Westergaard, D., Nielsen, K. R. & 19 others, Sørensen, E., Bruun, M. T., Liu, X., Hjalgrim, Henrik, Pers, Tune H, Mortensen, P. B., Mors, O., Nordentoft, Merete, Dreier, J. W., Børglum, A. D., Christensen, J., Hougaard, D. M., Buil, A., Hviid, Anders Peter, Melbye, M., Ullum, H., Berkovic, S. F., Werge, Thomas & Feenstra, B., 2022, In: *Brain*. 145, 2, p. 555–568

### **Hindbrain circuits in the control of eating behaviour and energy balance**

Cheng, W., Gordian, D., Ludwig, M. Q., Pers, Tune H, Seeley, R. J. & Myers, M. G., 2022, In: *Nature Metabolism*. 4, 7, p. 826-835 10 p.

### **Polygenic prediction of educational attainment within and between families from genome-wide association analyses in 3 million individuals**

Okbay, A., Wu, Y., Wang, N., Jayashankar, H., Bennett, M., Nehzati, S. M., Sidorenko, J., Kweon, H., Goldman, G., Gjorgjieva, T., Jiang, Y., Hicks, B., Tian, C., Hinds, D. A., Ahlskog, R., Magnusson, P. K. E., Oskarsson, S., Hayward, C., Campbell, A., Porteous, D. J. & 31 others, Freese, J., Herd, P., Agee, M., Alipanahi, B., Auton, A., Bell, R. K., Bryc, K., Elson, S. L., Fontanillas, P., Furlotte, N. A., Hinds, D. A., Huber, K. E., Kleinman, A., Litterman, N. K., McCreight, J. C., McIntyre, M. H., Mountain, J. L., Northover, C. A. M., Pitts, S. J., Sathirapongsasuti, J. F., Sazonova, O. V., Shelton, J. F., Pers, Tune H, Timshel, P., Ahluwalia, Tarun Veer Singh, Bønnelykke, Klaus, Bisgaard, H., Sørensen, Thorkild I.A., 23andMe Research Team, 2. R. T., Social Science Genetic Association Consortium, S. S. G. A. C. & LifeLines Cohort Study, L. C. S., 2022, In: *Nature Genetics*. 54, 4, p. 437-449 13 p.

### **Production of human entorhinal stellate cell-like cells by forward programming shows an important role of Foxp1 in reprogramming**

Bergmann, T., Liu, Y., Skov, J., Mogus, L., Lee, J., Pfisterer, U., Handfield, L. F., Asenjo-Martinez, A., Lisa-Vargas, I., Seemann, S. E., Lee, J. T. H., Patikas, N., Kornum, B. R., Denham, M., Hyttel, P., Witter, M. P., Gorodkin, J., Pers, T. H., Hemberg, M., Khodosevich, K. & 1 others, Hall, Vanessa Jane, 2022, In: *Frontiers in Cell and Developmental Biology*. 10, 976549.

### **Sex-Dependent Shared and Nonshared Genetic Architecture Across Mood and Psychotic Disorders**

Blokland, G. A. M., Grove, J., Chen, C. Y., Cotsapas, C., Tobet, S., Handa, R., Ripke, S., Neale, B. M., Corvin, A., Walters, J. T. R., Farh, K. H., Holmans, P. A., Lee, P., Bulik-Sullivan, B., Collier, D. A., Huang, H., Pers, T. H., Agartz, I., Agerbo, E., Albus, M. & 35 others, Alexander, M., Amin, F., Bacanu, S. A., Begemann, M., Belliveau, R. A., Bene, J., Bergen, S. E., Bevilacqua, E., Bigdeli, T. B., Black, D. W., Bruggeman, R., Buccola, N. G., Buckner, R. L., Byerley, W., Cahn, W., Cai, G., Champion, D., Cantor, R. M., Hansen, M., Hansen, T., Li, T., Olsen, L., Bækvad-Hansen, M., Pedersen, C. B., Pedersen, M. G., Hansen, C. S., Hansen, Thomas Folkmann, Nordentoft, Merete, Werge, Thomas, Plath, N., Schizophrenia Working Group of the Psychiatric Genomics Consortium, S. W. G. O. T. P. G. C., Bipolar Disorder Working Group of the Psychiatric Genomics Consortium, B. D. W. G. O. T. P. G. C., Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, M. D. D. W. G. O. T. P. G. C., Sex Differences Cross-Disorder Analysis Group of the Psychiatric Genomics Consortium, S. D. C. A. G. O. T. P. G. C. & iPSYCH, I., 2022, In: *Biological Psychiatry*. 91, 1, p. 107-117

### **Single-cell transcriptome and cell type-specific molecular pathways of human non-alcoholic steatohepatitis**

Fred, Rikard Göran, Steen Pedersen, J., Thompson, J. J., Lee, J., Timshel, P. N., Stender, S., Rygg, M. O., Gluud, Lise Lotte, Bjerregaard Kristiansen, V., Bendtsen, Flemming, Hansen, Torben & Pers, Tune H, 2022, In: *Scientific Reports*. 12, 1, 13 p., 13484.

### **A Comparison of Ten Polygenic Score Methods for Psychiatric Disorders Applied Across Multiple Cohorts**

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### **A genetic map of the mouse dorsal vagal complex and its role in obesity**

Ludwig, M. Q., Cheng, W., Gordian, D., Lee, J., Paulsen, S. J., Hansen, S. N., Egerod, Kristoffer Lihme, Barkholt, P., Rhodes, C. J., Secher, A., Knudsen, L. B., Pyke, C., Myers, M. G. & Pers, Tune H, 2021, In: *Nature Metabolism*. 3, p. 530-545

### **Association and genetic overlap between clinical chemistry tests and migraine**

Tanha, H. M. & The International Headache Genetics Consortium (IHGC), T. I. H. G. C. (., 2021, In: *Cephalalgia*. 41, 11-12, p. 1208-1221 14 p.

### **Bipolar multiplex families have an increased burden of common risk variants for psychiatric disorders**

Andlauer, T. F. M., Guzman-Parra, J., Streit, F., Strohmaier, J., González, M. J., Gil Flores, S., Cabaleiro Fabeiro, F. J., del Río Noriega, F., Perez, F. P., Haro González, J., Orozco Diaz, G., de Diego-Otero, Y., Moreno-Küstner, B., Auburger, G., Degenhardt, F., Heilmann-Heimbach, S., Herms, S., Hoffmann, P., Frank, J., Foo, J. C. & 26 others, Treutlein, J., Witt, S. H., Cichon, S., Kogevinas, M., Stahl, E. A., Breen, G., Forstner, A. J., McQuillin, A., Ripke, S., Trubetskoy, V., Mattheisen, M., Wang, Y., Coleman, J. R. I., Gaspar, H. A., de Leeuw, C. A., Steinberg, S., Pers, Tune H, Bækvad-Hansen, M., Pedersen, C. B., Pedersen, M. G., Hansen, C. S., Nordentoft, Merete, Werge, Thomas, Hansen, Thomas Folkmann, Bipolar Disorder Working Group of the Psychiatric Genomics Consortium, B. D. W. G. O. T. P. G. C. & Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, M. D. D. W. G. O. T. P. G. C., 2021, In: *Molecular Psychiatry*. 26, 4, p. 1286-1298 13 p.

### **Genetic insights into biological mechanisms governing human ovarian ageing**

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### **HIV infection drives interferon signaling within intestinal SARS-CoV-2 target cells**

Fardoos, R., Asowata, O. E., Herbert, N., Nyquist, S. K., Zungu, Y., Singh, A., Ngoepe, A., Mbano, I. M., Mthabela, N., Ramjit, D., Karim, F., Kuhn, W., Madela, F. G., Manzini, V. T., Anderson, F., Berger, B., Pers, Tune H, Shalek, A. K., Leslie, A. & Kløverpris, Henrik Nyhus, 2021, In: *JCI insight*. 6, 16, e148920.

### **Human skeletal muscle CD90<sup>+</sup> fibro-adipogenic progenitors are associated with muscle degeneration in type 2 diabetic patients**

Farup, J., Just, J., de Paoli, F., Lin, L., Jensen, J. B., Billeskov, T., Roman, I. S., Cömert, C., Møller, A. B., Madaro, L., Groppa, E., Fred, R. G., Kampmann, U., Gormsen, L. C., Pedersen, S. B., Bross, P., Stevnsner, T., Eldrup, N., Pers, T. H., Rossi, F. M. V. & 2 others, Puri, P. L. & Jessen, N., 2021, In: *Cell Metabolism*. 33, 11, p. 2201-2214.e11

### **Hypothalamic hormone-sensitive lipase regulates appetite and energy homeostasis**

Johnsen, Cecilie Hundahl, Kotzbeck, P., Burm, Hayley Beth, Christiansen, S. H., Pedersen, Lola Julie Torz, zmw799, zmw799, Madsen, M. P., Ratner, C., Serup, A. K., Thompson, J. J., Eichmann, T. O., Pers, Tune H, Woldbye, David Paul Drucker, Piomelli, D., Kiens, Bente, Zechner, R., Skov, Louise Julie & Holst, Birgitte, 2021, In: *Molecular Metabolism*. 47, 16 p., 101174.

### **Identification of 371 genetic variants for age at first sex and birth linked to externalising behaviour**

Mills, M. C., Tropf, F. C., Brazel, D. M., van Zuydam, N., Vaez, A., Agbessi, M., Ahsan, H., Alves, I., Andiappan, A. K., Arindrarto, W., Awadalla, P., Battle, A., Beutner, F., Jan Bonder, M., Boomsma, D. I., Christiansen, M. W., Claringbould, A., Deelen, P., Esko, T., Favé, M-J. & 33 others, Franke, L., Frayling, T., Gharib, S. A., Gibson, G., Heijmans, B. T., Hemani, G., Jansen, R., Kähönen, M., Kalnapienkis, A., Kasela, S., Kettunen, J., Kim, Y., Kirsten, H., Krohn, K., Kronberg, J., Kukushkina, V., Kutalik, Z., Lee, B., Lehtimäki, T., Loeffler, M., Marigorta, U. M., Mei, H., Milani, L., Montgomery, G. W., Müller-Nurasyid, M., Nauck, M., Nivard, M. G., Penninx, B. W. J. H., Møllegaard, Stine, Pers, Tune H, eQTLGen Consortium, E. C., BIOS Consortium, B. C. & Human Reproductive Behaviour Consortium, H. R. B. C., 2021, In: *Nature Human Behaviour*. 5, p. 1717-1730

### **Isolation and characterization of muscle stem cells, fibro-adipogenic progenitors, and macrophages from human skeletal muscle biopsies**

Jensen, J. B., Møller, A. B., Just, J., Mose, M., de Paoli, F. V., Billeskov, T. B., Fred, Rikard Göran, Pers, Tune H, Pedersen, S. B., Petersen, K. K., Bjerre, M., Farup, J. & Jessen, N., 2021, In: American Journal of Physiology - Cell Physiology. 321, 2, p. C257-C268 12 p.

### **Role of hypothalamic MAPK/ERK signaling and central action of FGF1 in diabetes remission**

Brown, Jenny, Bentsen, M. A., Belmont-Rausch, Dylan Matthew, Phan, B. A., Wieck, D., Wasanwala, H., Matsen, M. E., Acharya, N., Richardson, N. E., Zhao, X., Zhai, P., Secher, A., Morton, G. J., Pers, Tune H, Schwartz, M. W. & Scarlett, J. M., 2021, In: iScience. 24, 9, 19 p., 102944.

### **Single-Cell Mapping of GLP-1 and GIP Receptor Expression in the Dorsal Vagal Complex**

Ludwig, M. Q., Todorov, Petar Vladimirov, Egerod, Kristoffer Lihme, Olson, D. P. & Pers, Tune H, 2021, In: Diabetes. 70, 9, p. 1945-1955 11 p.

### **A genome-wide cross-phenotype meta-analysis of the association of blood pressure with migraine**

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### **Cerebral small vessel disease genomics and its implications across the lifespan**

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### **Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes**

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### **No Reliable Association between Runs of Homozygosity and Schizophrenia in a Well-Powered Replication Study**

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## 52 Genetic Loci Influencing Myocardial Mass

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## The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals

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### **Meta-analysis of 375,000 individuals identifies 38 susceptibility loci for migraine**

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### **Analysis of five chronic inflammatory diseases identifies 27 new associations and highlights disease-specific patterns at shared loci**

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### **New loci for body fat percentage reveal link between adiposity and cardiometabolic disease risk**

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### **Comprehensive analysis of schizophrenia-associated loci highlights ion channel pathways and biologically plausible candidate causal genes**

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#### **Genome-wide association analysis identifies three new susceptibility loci for childhood body mass index**

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#### **Genome-wide meta-analysis uncovers novel loci influencing circulating leptin levels**

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