Stanford



Katrin J Svensson

Associate Professor of Pathology

Curriculum Vitae available Online

CONTACT INFORMATION

- **Lab manager**

  Bernadette Gallardo - Administrative Assistant

  Email bernag@stanford.edu

Bio

BIO

Dr. Katrin J. Svensson is Associate Professor in the Department of Pathology at Stanford University. She is Director of the Stanford Metabolic Core Facility, Co-Director of the Pilot & Feasibility Program, and Affinity Group Leader at the Stanford Diabetes Research Center. She is also an Arc Institute Innovation Investigator, a Weill Cancer Hub West Investigator, and a Victor J. Dzau Emerging Leaders in Health and Medicine Scholar of the National Academy of Medicine.

Dr. Svensson leads a research program focused on the discovery and characterization of peptide hormones and endocrine signaling pathways that regulate metabolism, energy balance, and glucose homeostasis. Her laboratory integrates computational biology, proteomics, biochemistry, human genetics, and in vivo physiology to identify mechanisms underlying obesity, diabetes, and metabolic disease. Her work has uncovered pathways controlling insulin-independent glucose uptake, hepatic nutrient sensing, and appetite regulation, and has established scalable platforms for peptide discovery and ligand-receptor deorphanization. Several discoveries from her laboratory have been patented, licensed, and advanced toward therapeutic development.

Svensson is a standing member of the NIDDK POMD study section, serves as an Associate Editor for Endocrine Reviews and is on the Editorial Board at Diabetes. Dr. Svensson founded the Bay Area Metabolism Meeting (BAMM), an annual forum that brings together investigators across academia to accelerate collaboration and advance metabolism research. She is also a co-founder of Merrifield Therapeutics. Her laboratory has been supported by grants from the NIH, American Heart Association, Innovative Medicines Accelerator, Wu Tsai Neuroscience, Weill Cancer Hub, SPARK, SDRC, MCHRI, Merck, Eli Lilly, and Pfizer.

ACADEMIC APPOINTMENTS

- Associate Professor, Pathology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

- Faculty Fellow, Sarafan ChEM-H
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Head, Stanford Metabolic Core, (2021- present)
- ChemH Faculty Fellow, ChemH, (2021- present)
- Affinity Group Leader, SDRC, Stanford Diabetes Research Center, (2019- present)
- Member, Stanford Diabetes Research Center, (2018- present)

HONORS AND AWARDS

- Victor J. Dzau Emerging Leaders in Health and Medicine Scholar, National Academy of Medicine (2026-2029)
- Richard E. Weitzman Laurate Award, Endocrine Society (2026)
- Arc Innovation Investigator, Arc Institute (2025-2030)
- Weill Cancer Hub West Investigator, Weill (2025-2028)
- Big Ideas in Neuroscience Grant, Wu Tsai Neurosciences Institute (2025-2027)
- Churg Research Award, Stanford University (2019)
- McCormick and Gabilan Award, Stanford University (2018)
- K99/R00 Pathway to Independence Award, NIH (2016-2021)
- SRC International Postdoctoral Fellowship, Harvard Medical School (2013-2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Standing member, Co-chair, NIH POMD study section (2023 - present)
- Co-founder, Merrifield Therapeutics (2025 - present)
- Advisory Council Working Group, NIH NIDDK (2024 - 2025)
- Associate Editor, Endocrine Reviews (Oxford) (2022 - 2026)
- Editorial Board, Diabetes (2024 - present)
- Advisory Board, STAR Protocols (Cell Press) (2021 - present)
- Member, The Endocrine Society (2021 - present)
- Member, American Heart Association (2020 - present)
- Member, American Diabetes Association (2018 - present)

PROFESSIONAL EDUCATION

- Postdoctoral training, Harvard Medical School and Dana-Farber Cancer Institute (2017)
- Ph.D., Lund University (2012)
- M.S., Lund University (2006)

PATENTS

- Svensson, K.J., Cheng, P.. "United States Methods of treating cardiovascular disorders", Leland Stanford Junior University, Sep 18, 2025
- Svensson, K.J., Kim, J.J., Danneskiold-Samsoee, N.B., Lone, B.L.. "United States REG1B-derived peptides and methods of using the same", Leland Stanford Junior University, Aug 6, 2025
- Katrin Svensson, Zeyuan Zhang. "United States Composition comprising peptides and methods of using the same", Leland Stanford Junior University, May 23, 2025
- Svensson, K.J., Danneskiold-Samsoee, N.B., Coassolo, L. Lone, B.L.. "United States Compositions comprising BRINP3 variants and methods of using the same for treatment of obesity and digestive disorders", Leland Stanford Junior University, Feb 29, 2024

- Blau, H., Nalbandian, M., Svensson, K.J. "United States Materials and methods for treating cardiac dysfunction", Leland Stanford Junior University, Feb 5, 2024
- Katrin J. Svensson, Laetitia Voilquin. "United States BRINP2-derived peptide compositions for treating obesity and weight management", Leland Stanford Junior University, Aug 2, 2022
- Katrin J. Svensson, Laetitia Voilquin. "United States Therapeutic Uses of Isthmin Protein", Leland Stanford Junior University, Jul 28, 2021
- Katrin J Svensson, Bruce M Spiegelman. "United States Patent US11291706B2 Methods for identification, assessment, prevention, and treatment of metabolic disorders using slit2", Dana-Farber Cancer Institute, Inc., Jul 16, 2015

LINKS

- Emerging Leaders in Health and Medicine: https://nam.edu/our-work/health-policy-fellowships-and-leadership-programs/emerging-leaders-in-health-and-medicine/
- Weitzman Award Endocrine Society: https://www.endocrine.org/awards/laureate-awards/2026-laureate-recipients
- Svensson Lab website: http://www.svenssonlabstanford.org/
- LinkedIn: https://www.linkedin.com/in/katrin-j-svensson-ab4a2150/
- Google Scholar Profile: https://scholar.google.com/citations?user=GWsHZo4AAAAJ&hl=en
- Twitter: https://twitter.com/SvenssonLab

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Svensson Laboratory is dedicated to the discovery of new ligands that can control metabolism. We are using a combination of omics, gene editing and physiology approaches to better understand how to target complex diseases such as aging, metabolic diseases, and cancer.

Teaching

COURSES

2024-25

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)

2023-24

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Pre Lavania, Kyle Trinh

Postdoctoral Faculty Sponsor

Saranya Chidambaranathan Reghupaty, Zhuoran Li, Avinash Londhe, Siting Zhang

Doctoral Dissertation Advisor (AC)

Evander Li

Doctoral Dissertation Co-Advisor (AC)

Karen Linde-Garelli

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biochemistry (PhD Program)
- Biophysics (PhD Program)

- Cancer Biology (PhD Program)
- Endocrinology (Fellowship Program)

Publications

PUBLICATIONS

- **Diet at disease onset determines tissue inflammatory memory.** *Nature*
  Jiang, Z., Tayeri, J. M., Sun, I. H., Li, J., Merrill, E. D., Qiu, L., Zhang, D., Johri, V., Dobson, M. E., Watanabe, R., Maishan, M., Lowe, M. M., Tabuchi, et al
  2026
- **ENPP1 buffers extracellular cGAMP in brown adipose tissue to limit insulin resistance.** *Cell reports*
  Wang, S., Guo, Y., An, W., Lee, J. M., Li, Y., Sudaryo, V., Carozza, J. A., Grenot, G., Skariah, G., Reghupaty, S. C., Young, S., Bai, X., Svensson, et al
  2026; 45 (10): 118009
- **A brief guide to the identification and characterization of secreted molecules.** *Nature metabolism*
  Londhe, A. D., Danneskiold-Samsøe, N. B., Svensson, K. J.
  2026
- **15-PGDH inhibition promotes muscle repair and strength recovery during GLP-1 receptor agonist-induced weight loss.** *Proceedings of the National Academy of Sciences of the United States of America*
  Nalbandian, M., Lone, J., Le Moal, E., Kim, I., Jeuris, K., Li, Y. K., Kraft, P., Zhao, M., Koleckar, K., Zhang, Z., Svensson, K. J., Blau, H. M.
  2026; 123 (23): e2606533123
- **ENPP1 buffers extracellular cGAMP in brown adipose tissue to limit insulin resistance.** *bioRxiv : the preprint server for biology*
  Wang, S., Guo, Y., An, W., Lee, M., Li, Y., Sudaryo, V., Grenot, G., Skariah, G., Reghupaty, S. C., Young, S., Bai, X., Svensson, K. J., Li, et al
  2026
- **Python metabolomics uncovers a conserved postprandial metabolite and gut-brain feeding pathway.** *Nature metabolism*
  Xiao, S., Wang, M., Martin, T. G., Scott, B., Fang, X., Liu, X., Yang, Y., Fu, S., Truong, S. D., Gugel, J. F., Maas, G. L., Mullen, M. P., Hill, et al
  2026
- **Advances in Adipose Tissue Biology.** *Endocrine reviews*
  Corvera, S., Rajan, A., Townsend, K. L., Shamsi, F., Wu, J., Svensson, K. J., Zeltser, L. M., Collins, S., Reis, T., Tseng, Y. H., Goodyear, L. J.
  2025
- **Restoring mitochondrial quantity and quality to reverse the Warburg effect and drive neuroblastoma differentiation.** *Proceedings of the National Academy of Sciences of the United States of America*
  Jiang, H., Tiche, S. J., He, C. J., Liu, J., Bian, F., Jedoui, M., Forgo, B., Islam, M. T., Zhao, M., Emengo, P., He, B., Li, Y., Li, et al
  2025; 122 (36): e2502483122
- **A consensus guide to preclinical indirect calorimetry experiments.** *Nature metabolism*
  Banks, A. S., Allison, D. B., Alquier, T., , Austad, S. N., Auwerx, J., Ayala, J. E., Baur, J. A., Carobbio, S., Churchill, G. A., Dall, M., de Cabo, R., Donato, J., et al
  2025; 7 (9): 1765-1780
- **A genome-wide, CRISPR-based screen reveals new requirements for translation initiation and ubiquitination in driving adipogenic fate change.** *Genes & development*
  Turn, R. E., Hilgendorf, K. I., Johnson, C. T., Han, K., Aziz-Zanjani, M. O., Swails Bollinger, S., Domizi, P., Cheng, R., Rabiee, A., Zhu, Y., Jiang, Z., Asthana, A., Demeter, et al
  2025
- **ANGPTL3 orchestrates hepatic fructose sensing and metabolism.** *Cell reports*
  Zhao, M., Linde-Garelli, K. Y., Zhang, Z., Toomer, D., Reghupaty, S. C., Jimenez, J. I., Coassolo, L., Wat, L. W., Fernandez, D., Svensson, K. J.
  2025; 44 (7): 115962
- **Discovery of peptides as key regulators of metabolic and cardiovascular crosstalk.** *Cell reports*
  Zhang, Z., Svensson, K. J.

2025; 44 (6): 115836

- **Genetic depletion of adipose-derived Isthmin-1 causes hepatic steatosis.** *Molecular metabolism*
  Reghupaty, S. C., Coassolo, L., Zhao, M., Narasimhan, R. L., Patel, A., Lone, J., Bielczyk-Maczynska, E., Danneskiold-Samsoee, N. B., Brown, T., Jiang, Z., Li, V. L., Svensson, K. J.
  2025: 102172

- **Harnessing the power of peptides: advances and collaborations in biochemistry.** *Trends in biochemical sciences*
  Coassolo, L., Svensson, K. J., Gare, C. L., White, A. M., Malins, L. R., Smith, A. B., Chekan, J. R.
  2025

- **Cell Metabolism 20th anniversary Voices: Part 2 of 3** *CELL METABOLISM*
  Kajimura, S., Garcia-Caceres, C., Kazak, L., Thorp, E. B., Svensson, K. J., Yang, L.
  2025; 37 (5): 1039-1042

- **Progress in Understanding the Regulation of Glucose and Fructose Metabolism.** *Annual review of nutrition*
  Zhao, M., Lone, J., Reghupaty, S., Linde-Garelli, K. Y., Svensson, K. J.
  2025

- **Understanding peptide hormones: from precursor proteins to bioactive molecules.** *Trends in biochemical sciences*
  Coassolo, L., Wiggenhorn, A., Svensson, K. J.
  2025

- **Prohormone cleavage prediction uncovers a non-incretin anti-obesity peptide.** *Nature*
  Coassolo, L., B Danneskiold-Samsøe, N., Nguyen, Q., Wiggenhorn, A., Zhao, M., Wang, D. C., Toomer, D., Lone, J., Wei, Y., Patel, A., Liparulo, I., Kavi, D., Wat, et al
  2025

- **Restoring Mitochondrial Quantity and Quality to Reverse Warburg Effect and Drive Tumor Differentiation.** *Research square*
  Ye, J., Jiang, H., Tiche, S., He, C., Liu, J., Bian, F., Jedoui, M., Forgo, B., Islam, M. T., Zhao, M., Emengo, P., He, B., Li, et al
  2024

- **A β-hydroxybutyrate shunt pathway generates anti-obesity ketone metabolites.** *Cell*
  Moya-Garzon, M. D., Wang, M., Li, V. L., Lyu, X., Wei, W., Tung, A. S., Raun, S. H., Zhao, M., Coassolo, L., Islam, H., Oliveira, B., Dai, Y., Spaas, et al
  2024

- **AlphaFold2 enables accurate deorphanization of ligands to single-pass receptors.** *Cell systems*
  Banhos Danneskiold-Samsoe, N., Kavi, D., Jude, K. M., Nissen, S. B., Wat, L. W., Coassolo, L., Zhao, M., Santana-Oikawa, G. A., Broido, B. B., Garcia, K. C., Svensson, K. J.
  2024

- **GLUT1 overexpression in CAR-T cells induces metabolic reprogramming and enhances potency.** *Nature communications*
  Guerrero, J. A., Klysz, D. D., Chen, Y., Malipatlolla, M., Lone, J., Fowler, C., Stuani, L., May, A., Bashti, M., Xu, P., Huang, J., Michael, B., Contrepois, et al
  2024; 15 (1): 8658

- **Novel secreted regulators of glucose and lipid metabolism in the development of metabolic diseases.** *Diabetologia*
  Wat, L. W., Svensson, K. J.
  2024

- **PTER is a N-acetyltaurine hydrolase that regulates feeding and obesity.** *Nature*
  Wei, W., Lyu, X., Markhard, A. L., Fu, S., Mardjuki, R. E., Cavanagh, P. E., Zeng, X., Rajniak, J., Lu, N., Xiao, S., Zhao, M., Moya-Garzon, M. D., Truong, et al
  2024

- **Loss of RREB1 reduces adipogenesis and improves insulin sensitivity in mouse and human adipocytes.** *bioRxiv : the preprint server for biology*
  Yu, G. Z., Krentz, N. A., Bentley, L., Zhao, M., Paphiti, K., Sun, H., Honecker, J., Nygård, M., Dashti, H., Bai, Y., Reid, M., Thaman, S., Wabitsch, et al
  2024

- **Fighting Obesity** *CHEMISTRY & INDUSTRY*
  Svensson, K.
  2024; 88 (5): 18-21
- **Size matters: the biochemical logic of ligand type in endocrine crosstalk.** *Life metabolism*
  Lone, J. B., Long, J. Z., Svensson, K. J.
  2024; 3 (1)
- **Mitochondrial uncoupler and retinoic acid synergistically induce differentiation and inhibit proliferation in neuroblastoma.** *bioRxiv : the preprint server for biology*
  Jiang, H., Tiche, S. J., He, C. J., Jedoui, M., Forgo, B., Zhao, M., He, B., Li, Y., Li, A. M., Truong, A. T., Ho, J., Simmermaker, C., Yang, et al
  2024
- **A class of secreted mammalian peptides with potential to expand cell-cell communication.** *Nature communications*
  Wiggenhorn, A. L., Abuzaid, H. Z., Coassolo, L., Li, V. L., Tanzo, J. T., Wei, W., Lyu, X., Svensson, K. J., Long, J. Z.
  2023; 14 (1): 8125
- **Roles of Activin A and Gpnmb in metabolic dysfunction-associated steatotic liver disease (MASLD).** *Diabetes*
  Liu, H., Yerevanian, A., Westerhoff, M., Hastings, M. H., Guerra, J. R., Zhao, M., Svensson, K. J., Cai, B., Soukas, A. A., Rosenzweig, A.
  2023
- **Hallmarks of the metabolic secretome.** *Trends in endocrinology and metabolism: TEM*
  Reghupaty, S. C., Dall, N. R., Svensson, K. J.
  2023
- **A single-cell CRISPRi platform for characterizing candidate genes relevant to metabolic disorders in human adipocytes.** *American journal of physiology. Cell physiology*
  Bielczyk-Maczynska, E., Sharma, D., Blencowe, M., Saliba Gustafsson, P., Gloudemans, M. J., Yang, X., Carcamo-Orive, I., Wabitsch, M., Svensson, K. J., Park, C. Y., Quertermous, T., Knowles, J. W., Li, et al
  2023
- **Extracellular Vesicles in Systemic Juvenile Idiopathic Arthritis.** *Journal of leukocyte biology*
  Maller, J., Morgan, T., Morita, M., McCarthy, F., Jung, Y., Svensson, K. J., Elias, J. E., Macaubas, C., Mellins, E.
  2023
- **Organism-wide, cell-type-specific secretome mapping of exercise training in mice.** *Cell metabolism*
  Wei, W., Riley, N. M., Lyu, X., Shen, X., Guo, J., Raun, S. H., Zhao, M., Moya-Garzon, M. D., Basu, H., Sheng-Hwa Tung, A., Li, V. L., Huang, W., Wiggenhorn, et al
  2023
- **Protocol for invivo measurement of basal and insulin-stimulated glucose uptake in mouse tissues.** *STAR protocols*
  Zhao, M., Wat, L. W., Svensson, K. J.
  2023; 4 (2): 102179
- **Mapping transcriptional heterogeneity and metabolic networks in fatty livers at single-cell resolution.** *iScience*
  Coassolo, L., Liu, T., Jung, Y., Taylor, N. P., Zhao, M., Charville, G. W., Nissen, S. B., Yki-Jarvinen, H., Altman, R. B., Svensson, K. J.
  2023; 26 (1): 105802
- **Rapid and accurate deorphanization of ligand-receptor pairs using AlphaFold** *BioRxiv*
  Banhos Danneskiold-Samsøe, N., Kavi, D., Jude, K., Nissen, S., Wat, L., Coassolo, L., Zhao, M., Santana-Oikawa, G., Broido, B., Garcia, K., Svensson, K. J.
  2023
- **A class of secreted mammalian peptides with potential to expand cell-cell communication** *BioRxiv*
  Wiggenhorn, A. L.
  2023
- **A human TRPV1 genetic variant within the channel gating domain regulates pain sensitivity in rodents.** *The Journal of clinical investigation*
  He, S., Zambelli, V. O., Sinharoy, P., Brabenec, L., Bian, Y., Rwere, F., Hell, R. C., Stein Neto, B., Hung, B., Yu, X., Zhao, M., Luo, Z., Wu, et al
  2022

- **New players of the adipose secretome: Therapeutic opportunities and challenges.** *Current opinion in pharmacology*
  Coassolo, L., Dannieskiold-Samsøe, N. B., Zhao, M., Allen, H., Svensson, K. J.
  2022; 67: 102302

- **Phosphoproteomic mapping reveals distinct signaling actions and activation of muscle protein synthesis by Isthmin-1** *eLife*
  Zhao, M., Banhos Danneskiold-Samsøe, N., Ulicna, L., Nguyen, Q., Voilquin, L., Lee, D. E., White, J. P., Jiang, Z., Cuthbert, N., Paramasivam, S., Bielczyk-Maczynska, E., van Rechem, C., Svensson, et al
  2022

- **G protein-coupled receptor 151 regulates glucose metabolism and hepatic gluconeogenesis** *Nature Communications*
  Bielczyk-Maczynska, E., Zhao, M., Zushin, P. H., Schnurr, T. M., Kim, H., Li, J., Sangwung, P., Nallagatla, P., Park, C., Cornn, C., Stahl, A., Svensson, K. J., Knowles, et al
  2022

- **Organism-wide secretome mapping uncovers pathways of tissue crosstalk in exercise** *BioRxiv*
  Wei, W., et al
  2022

- **CROP-Seq: a single-cell CRISPRi platform for characterizing candidate genes relevant to metabolic disorders in human adipocytes** *BioRxiv*
  Bielczyk-Maczynska, E., Sharma, D., Blencowe, M., Gustafsson, P. S., Gloudemans, M. J., Xia, X., Carcamo-Orive, I., Wabitsch, M., Svensson, K. J., Park, C. Y., Quertermous, T., Knowles, J. W., Li, et al
  2022

- **Isthmin-1 As A Modulator Of Metabolic Health** *ENDO*
  Zhao, M., Banhos Danneskiold-Samsøe, N., Voilquin, L., Jiang, Z., Svensson, K. J.
  2022

- **Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis.** *Cell metabolism*
  Jiang, Z., Zhao, M., Voilquin, L., Jung, Y., Aikio, M. A., Sahai, T., Dou, F. Y., Roche, A. M., Carcamo-Orive, I., Knowles, J. W., Wabitsch, M., Appel, E. A., Maikawa, et al
  2021

- **Mitochondria-Rich Extracellular Vesicles Rescue Patient-Specific Cardiomyocytes From Doxorubicin Injury: Insights Into the SENECA Trial.** *JACC. CardioOncology*
  O'Brien, C. G., Ozen, M. O., Ikeda, G., Vaskova, E., Jung, J. H., Bayardo, N., Santoso, M. R., Shi, L., Wahlquist, C., Jiang, Z., Jung, Y., Zeng, Y., Egan, et al
  2021; 3 (3): 428-440

- **Isolation, culture, and functional analysis of hepatocytes from mice with fatty liver disease.** *STAR protocols*
  Jung, Y., Zhao, M., Svensson, K. J.
  2020; 1 (3): 100222

- **Mesenchymal Stem Cells Rescue Patient-Specific Cardiomyocyte Viability and Function Following Doxorubicin Injury via Microvesicle Mediated Mitochondrial Transfer to Recapitulate Human Clinical Trial Results**
  OBrien, C. G., Ozen, M. O., Vaskova, E., Jung, J., Santoso, M., Shi, L., Wahlquist, C. A., Jiang, Z., Jung, Y., Ikeda, G., Zeng, Y., Sinclair, R., Gee, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Regulation of Energy Metabolism by Receptor Tyrosine Kinase Ligands.** *Frontiers in physiology*
  Zhao, M. n., Jung, Y. n., Jiang, Z. n., Svensson, K. J.
  2020; 11: 354

- **A CRISPR-based genome-wide screen for adipogenesis reveals new insights into mitotic expansion and lipogenesis** *bioRxiv*
  Hilgendorf, K. I., Johnson, C. T., Han, K., Rabiee, A., Demeter, J., Cheng, R., Zhu, Y., Jiang, Z., Svensson, K. J., Bassik, M. C., Jackson, P. K.
  2020

- **Discovery of Hydrolysis-resistant Isoindoline N-Acyl Amino Acid Analogs that Stimulate Mitochondrial Respiration.** *Journal of medicinal chemistry*
  Lin, H. n., Long, J. Z., Roche, A. M., Svensson, K. J., Dou, F. n., Chang, M. R., Strutzenberg, T. n., Ruiz, C. n., Cameron, M. D., Novick, S. J., Berdan, C. M., Louie, S. n., Nomura, et al
  2018

- **Ablation of PM20D1 reveals N-acyl amino acid control of metabolism and nociception.** *Proceedings of the National Academy of Sciences of the United States of America*
  Long, J. Z., Roche, A. M., Berdan, C. A., Louie, S. M., Roberts, A. J., Svensson, K. J., Dou, F. Y., Bateman, L. A., Mina, A. I., Deng, Z. n., Jedrychowski, M. P., Lin, H. n., Kamenecka, et al
  2018

- **Metastasis Stimulation by Hypoxia and Acidosis-Induced Extracellular Lipid Uptake Is Mediated by Proteoglycan-Dependent Endocytosis** *CANCER RESEARCH*
  Menard, J. A., Christianson, H. C., Kucharzewska, P., Bourseau-Guilmain, E., Svensson, K. J., Lindqvist, E., Chandran, V. I., Kjellen, L., Welinder, C., Bengzon, J., Johansson, M. C., Belting, M.
  2016; 76 (16): 4828-4840

- **The Secreted Enzyme PM20D1 Regulates Lipidated Amino Acid Uncouplers of Mitochondria** *CELL*
  Long, J. Z., Svensson, K. J., Bateman, L. A., Lin, H., Kamenecka, T., Lokurkar, I. A., Lou, J., Rao, R. R., Chang, M. R., Jedrychowski, M. P., Paulo, J. A., Gygi, S. P., Griffin, et al
  2016; 166 (2): 424-435

- **A Secreted Slit2 Fragment Regulates Adipose Tissue Thermogenesis and Metabolic Function** *CELL METABOLISM*
  Svensson, K. J., Long, J. Z., Jedrychowski, M. P., Cohen, P., Lo, J. C., Serag, S., Kir, S., Shinoda, K., Tartaglia, J. A., Rao, R. R., Chedotal, A., Kajimura, S., Gygi, et al
  2016; 23 (3): 454-466

- **Exosome and microvesicle mediated phene transfer in mammalian cells** *SEMINARS IN CANCER BIOLOGY*
  Christianson, H. C., Svensson, K. J., Belting, M.
  2014; 28: 31-38

- **Meteorin-like Is a Hormone that Regulates Immune-Adipose Interactions to Increase Beige Fat Thermogenesis** *CELL*
  Rao, R. R., Long, J. Z., White, J. P., Svensson, K. J., Lou, J., Lokurkar, I., Jedrychowski, M. P., Ruas, J. L., Wrann, C. D., Lo, J. C., Camera, D. M., Lachey, J., Gygi, et al
  2014; 157 (6): 1279-1291

- **A Smooth Muscle-Like Origin for Beige Adipocytes** *CELL METABOLISM*
  Long, J. Z., Svensson, K. J., Tsai, L., Zeng, X., Roh, H. C., Kong, X., Rao, R. R., Lou, J., Lokurkar, I., Baur, W., Castellot, J. J., Rosen, E. D., Spiegelman, et al
  2014; 19 (5): 810-820

- **Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch** *CELL*
  Cohen, P., Levy, J. D., Zhang, Y., Frontini, A., Kolodin, D. P., Svensson, K. J., Lo, J. C., Zeng, X., Ye, L., Khandekar, M. J., Wu, J., Gunawardana, S. C., Banks, et al
  2014; 156 (1-2): 304-316

- **Cancer cell exosomes depend on cell-surface heparan sulfate proteoglycans for their internalization and functional activity** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Christianson, H. C., Svensson, K. J., van Kuppevelt, T. H., Li, J., Belting, M.
  2013; 110 (43): 17380-17385

- **Exosomes reflect the hypoxic status of glioma cells and mediate hypoxia-dependent activation of vascular cells during tumor development** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kucharzewska, P., Christianson, H. C., Welch, J. E., Svensson, K. J., Fredlund, E., Ringner, M., Morgelin, M., Bourseau-Guilmain, E., Bengzon, J., Belting, M.
  2013; 110 (18): 7312-7317

- **Role of extracellular membrane vesicles in intercellular communication of the tumour microenvironment** *BIOCHEMICAL SOCIETY TRANSACTIONS*
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