



## Tracey McLaughlin

Professor of Medicine (Endocrinology)

Medicine - Endocrinology, Gerontology, & Metabolism

 NIH Biosketch available Online

### CLINICAL OFFICE (PRIMARY)

- **Endocrine Clinic within Ambulatory Care Clinic**

300 Pasteur Dr Rm A13

Stanford, CA 94305

**Tel** (650) 721-1300

**Fax** (650) 498-5823

### Bio

---

#### BIO

Dr. McLaughlin graduated from Stanford University with honors and distinction in Human Biology, obtained a MS in Public Health at UC Berkeley, and MD at UC San Francisco. She completed her residency in Internal Medicine at Santa Clara Valley Medical Center and her fellowship in Endocrinology, Diabetes, and Metabolism at Stanford University School of Medicine. She is currently a clinician investigator who maintains an active clinic for patients with complicated type 1, type 2, or other forms of diabetes, polycystic ovarian disease, and hypoglycemia. Her clinical research program includes human studies on obesity, regional fat distribution, and the role of adipocytes and adipose tissue immune cells in promoting insulin resistance and type 2 diabetes. She also conducts studies on the role of incretin hormones in glucose metabolism and postbariatric hypoglycemia, and the use of continuous glucose monitoring and multi-omics methods to define metabolic sub-phenotypes and precision diets for individuals with prediabetes and type 2 diabetes.

#### CLINICAL FOCUS

- Endocrinology / Diabetes
- Endocrinology
- Diabetes and Metabolism

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Endocrinology, Gerontology, & Metabolism
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

#### ADMINISTRATIVE APPOINTMENTS

- SPARK Member, Stanford University School of Medicine, (2015- present)
- Women's Health and Sex Differences in Medicine Committee Member, Stanford University, (2013- present)
- GCRC Advisory Committee, member, Stanford University, (2003- present)
- Appointments and Promotions Committee, Stanford University, (2018- present)

- Diabetes Task Force, Chair, Stanford Hospital, (2004- present)

## HONORS AND AWARDS

- Intern of the Year, Santa Clara Valley Medical Center (1995)
- K23 Award, NIH (2000)
- Junior Physician Investigator Award, American Federation for Medical Research (2004)
- Young Investigators' Forum Finalist, Northwestern University Feinberg School of Medicine (2005)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Endocrine Society (1997 - present)
- Member, American Diabetes Association (1997 - present)
- Steering Committee Member, World Congress on Insulin Resistance (2007 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Endocrinology, Diabetes and Metabolism, American Board of Internal Medicine (1999)
- Fellowship: Stanford University Endocrinology Fellowship (2000) CA
- Residency: Santa Clara Valley Medical Center Internal Medicine Residency (1997) CA
- Internship: Santa Clara Valley Medical Center (1995) CA United States of America
- Medical Education: UCSF Medical Center (1994) CA
- M.S., Stanford University , Epidemiology (2004)
- M.D., U.C. San Francisco , Medicine (1994)
- M.S., U.C. Berkeley , Public Health (1992)
- B.A., Stanford University , Human Biology (1988)

## PATENTS

- Tracey McLaughlin. "United States Patent WO2016191394A1 Treatment of post-bariatric hypoglycemia with glp-1 antagonists", Eiger Biopharmaceuticals, May 22, 2015

## LINKS

- McLaughlin Lab Site: <https://mclaughlinlab.sites.stanford.edu/>

## Research & Scholarship

---

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. McLaughlin conducts clinical research related to obesity, insulin resistance, diabetes, and cardiovascular disease (CVD). Current studies include: 1) the impact of macronutrient composition on metabolism, DM2 and CVD; 2) comparison of different weight loss diets on metabolism and CVD risk reduction ; 3) role of adipocytes and adipose tissue immune cells in modulating insulin resistance; 4) use of continuous glucose monitoring and multi-omics to define metabolic phenotype and precision diets

### CLINICAL TRIALS

- Adipose Tissue Response to Overfeeding in Insulin Resistance-Prone vs. Insulin Sensitive Humans, Not Recruiting
- Effect of Liraglutide (Victoza) on Inflammation in Human Adipose Tissue and Blood, Not Recruiting
- Ertugliflozin: Cardioprotective Effects on Epicardial Fat, Not Recruiting
- Obesity, Weight Loss, and Cardiovascular Disease Risk, Not Recruiting

## Teaching

---

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

## Publications

---

### PUBLICATIONS

- **Relationship Between Coronary Atheroma, Epicardial Adipose Tissue Inflammation, and Adipocyte Differentiation Across the Human Myocardial Bridge.** *Journal of the American Heart Association*  
McLaughlin, T., Schnittger, I., Nagy, A., Zandle, E., Xu, Y., Song, Y., Nieman, K., Tremmel, J. A., Dey, D., Boyd, J., Sacks, H.  
2021; e021003
- **Defining clinically important hypoglycemia in patients with postbariatric hypoglycemia.** *Surgery for obesity and related diseases : official journal of the American Society for Bariatric Surgery*  
Craig, C. M., McLaughlin, T. L.  
2021
- **Mechanisms Underlying Glycemic Reduction Following Roux-en-Y Gastric Bypass Surgery: Foregut Versus Hindgut Contributions**  
Craig, C. M., McLaughlin, T. L.  
W B SAUNDERS CO-ELSEVIER INC.2021: 87
- **PREVENT: A Randomized, Placebo-Controlled Crossover Trial of Avexitide for Treatment of Post-Bariatric Hypoglycemia.** *The Journal of clinical endocrinology and metabolism*  
Craig, C. M., Lawler, H. M., Lee, C. J., Tan, M., Davis, D. B., Tong, J., Glodowski, M., Rogowitz, E., Karaman, R., McLaughlin, T. L., Porter, L.  
2021
- **Guidelines for gastrostomy tube placement and enteral nutrition in patients with severe, refractory hypoglycemia after gastric bypass.** *Surgery for obesity and related diseases : official journal of the American Society for Bariatric Surgery*  
Zanley, E., Shah, N. D., Craig, C., Lau, J. N., Rivas, H., McLaughlin, T.  
2020
- **Safety, Efficacy and Pharmacokinetics of Repeat Subcutaneous Dosing of Avexitide (Exendin 9-39) for Treatment of Post-Bariatric Hypoglycemia.** *Diabetes, obesity & metabolism*  
Tan, M., Lamendola, C., Luong, R., McLaughlin, T., Craig, C.  
2020
- **FAM13A affects body fat distribution and adipocyte function.** *Nature communications*  
Fathzadeh, M. n., Li, J. n., Rao, A. n., Cook, N. n., Chennamsetty, I. n., Seldin, M. n., Zhou, X. n., Sangwung, P. n., Gloude-mans, M. J., Keller, M. n., Attie, A. n., Yang, J. n., Wabitsch, et al  
2020; 11 (1): 1465
- **Hyaluronan levels are increased systemically in human type 2 but not type 1 diabetes independently of glycemic control** *MATRIX BIOLOGY*  
Nagy, N., Sunkari, V. G., Kaber, G., Hasbun, S., Lam, D. N., Speake, C., Sande, S., McLaughlin, T. L., Wight, T. N., Long, S. R., Bollyky, P. L.  
2019; 80: 46–58
- **Plasma FGF-19 Levels are Increased in Patients with Post-Bariatric Hypoglycemia** *OBESITY SURGERY*  
Mulla, C. M., Goldfine, A. B., Dreyfuss, J. M., Houten, S., Pan, H., Pober, D. M., Albrechtsen, N., Svane, M. S., Schmidt, J. B., Holst, J., Craig, C. M., McLaughlin, T. L., Patti, et al  
2019; 29 (7): 2092–99
- **Generating biosimilar therapeutic drugs through innovative technology and operational excellence** *NATURE*  
Zhou, B.  
2019; 569 (7755)
- **A longitudinal big data approach for precision health** *NATURE MEDICINE*  
Rose, S., Contre-pois, K., Moneghetti, K. J., Zhou, W., Mishra, T., Mataraso, S., Dagan-Rosenfeld, O., Ganz, A. B., Dunn, J., Hornburg, D., Rego, S., Perelman, D., Ahadi, et al

2019; 25 (5): 792-+

- **Longitudinal multi-omics of host-microbe dynamics in prediabetes.** *Nature*  
Zhou, W., Sailani, M. R., Contrepois, K., Zhou, Y., Ahadi, S., Leopold, S. R., Zhang, M. J., Rao, V., Avina, M., Mishra, T., Johnson, J., Lee-McMullen, B., Chen, et al  
2019; 569 (7758): 663-71
- **Plasma FGF-19 Levels are Increased in Patients with Post-Bariatric Hypoglycemia.** *Obesity surgery*  
Mulla, C. M., Goldfine, A. B., Dreyfuss, J. M., Houten, S., Pan, H., Pober, D. M., Wewer Albrechtsen, N. J., Svane, M. S., Schmidt, J. B., Holst, J. J., Craig, C. M., McLaughlin, T. L., Patti, et al  
2019
- **A longitudinal big data approach for precision health.** *Nature medicine*  
Schüssler-Fiorenza Rose, S. M., Contrepois, K. n., Moneghetti, K. J., Zhou, W. n., Mishra, T. n., Mataraso, S. n., Dagan-Rosenfeld, O. n., Ganz, A. B., Dunn, J. n., Hornburg, D. n., Rego, S. n., Perelman, D. n., Ahadi, et al  
2019; 25 (5): 792-804
- **High Frequency Actionable Pathogenic Exome Variants in an Average-Risk Cohort.** *Cold Spring Harbor molecular case studies*  
Rego, S., Dagan-Rosenfeld, O., Zhou, W., Sailani, M. R., Limcaoco, P., Colbert, E., Avina, M., Wheeler, J., Craig, C., Salins, D., Rost, H. L., Dunn, J., McLaughlin, et al  
2018
- **Hyaluronan levels are increased systemically in human type 2 but not type 1 diabetes independently of glycemic control.** *Matrix biology : journal of the International Society for Matrix Biology*  
Nagy, N., Sunkari, V. G., Kaber, G., Hasbun, S., Lam, D. N., Speake, C., Sanda, S., McLaughlin, T. L., Wight, T. N., Long, S. R., Bollyky, P. L.  
2018
- **Hypoglycemia After Gastric Bypass Surgery: Current Concepts and Controversies** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
Salehi, M., Vella, A., McLaughlin, T., Patti, M.  
2018; 103 (8): 2815-26
- **Glucotypes reveal new patterns of glucose dysregulation.** *PLoS biology*  
Hall, H., Perelman, D., Breschi, A., Limcaoco, P., Kellogg, R., McLaughlin, T., Snyder, M.  
2018; 16 (7): e2005143
- **Efficacy and pharmacokinetics of subcutaneous exendin (9-39) in patients with post-bariatric hypoglycaemia** *DIABETES OBESITY & METABOLISM*  
Craig, C. M., Liu, L., Thi Nguyen, Price, C., Bingham, J., McLaughlin, T. L.  
2018; 20 (2): 352-61
- **Integrative Personal Omics Profiles during Periods of Weight Gain and Loss.** *Cell systems*  
Piening, B. D., Zhou, W. n., Contrepois, K. n., Röst, H. n., Gu Urban, G. J., Mishra, T. n., Hanson, B. M., Bautista, E. J., Leopold, S. n., Yeh, C. Y., Spakowicz, D. n., Banerjee, I. n., Chen, et al  
2018
- **Metabolic markers, regional adiposity, and adipose cell size: relationship to insulin resistance in African-American as compared with Caucasian women.** *International journal of obesity (2005)*  
Allister-Price, C. n., Craig, C. M., Spielman, D. n., Cushman, S. S., McLaughlin, T. L.  
2018
- **T-Cells in Human Subcutaneous Adipose Tissue**  
McLaughlin, T., Liu, L., Craig, C., Perelman, D., Choi, O., Tolentino, L., Engleman, E.  
AMER DIABETES ASSOC.2017: A90
- **Substituting poly- and mono-unsaturated fat for dietary carbohydrate reduces hyperinsulinemia in women with polycystic ovary syndrome** *GYNECOLOGICAL ENDOCRINOLOGY*  
Perelman, D., Coghlan, N., Lamendola, C., Carter, S., Abbasi, F., McLaughlin, T.  
2017; 33 (4): 324-327
- **Critical role for GLP-1 in symptomatic post-bariatric hypoglycaemia.** *Diabetologia*  
Craig, C. M., Liu, L., Deacon, C. F., Holst, J. J., McLaughlin, T. L.  
2017; 60 (3): 531-540

- **Role of innate and adaptive immunity in obesity-associated metabolic disease** *JOURNAL OF CLINICAL INVESTIGATION*  
McLaughlin, T., Ackerman, S. E., Shen, L., Engleman, E.  
2017; 127 (1): 5-13
- **Adipose tissue macrophages impair preadipocyte differentiation in humans.** *PloS one*  
Liu, L. F., Craig, C. M., Tolentino, L. L., Choi, O., Morton, J., Rivas, H., Cushman, S. W., Engleman, E. G., McLaughlin, T.  
2017; 12 (2)
- **Digital Health: Tracking Physiomes and Activity Using Wearable Biosensors Reveals Useful Health-Related Information.** *PLoS biology*  
Li, X., Dunn, J., Salins, D., Zhou, G., Zhou, W., Schüssler-Fiorenza Rose, S. M., Perelman, D., Colbert, E., Runge, R., Rego, S., Sonecha, R., Datta, S., McLaughlin, et al  
2017; 15 (1)
- **Digital Health: Tracking Physiomes and Activity Using Wearable Biosensors Reveals Useful Health-Related Information** *PLOS BIOLOGY*  
Li, X., Dunn, J., Salins, D., Zhou, G., Zhou, W., Rose, S. M., Perelman, D., Colbert, E., Runge, R., Rego, S., Sonecha, R., Datta, S., McLaughlin, et al  
2017; 15 (1)
- **Substituting poly- and mono-unsaturated fat for dietary carbohydrate reduces hyperinsulinemia in women with polycystic ovary syndrome.** *Gynecological endocrinology*  
Perelman, D., Coghlan, N., Lamendola, C., Carter, S., Abbasi, F., McLaughlin, T.  
2016: 1-4
- **A glucocorticoid- and diet-responsive pathway toggles adipocyte precursor cell activity in vivo.** *Science signaling*  
Wong, J. C., Krueger, K. C., Costa, M. J., Aggarwal, A., Du, H., McLaughlin, T. L., Feldman, B. J.  
2016; 9 (451): ra103-?
- **Subcutaneous Exendin (9-39) Effectively Treats Postbariatric Hyper insulinemic Hypoglycemia**  
Craig, C. M., McLaughlin, T. L.  
AMER DIABETES ASSOC.2016: A7-A8
- **Adipose Cell Size and Regional Fat Deposition as Predictors of Metabolic Response to Overfeeding in Insulin-Resistant and Insulin-Sensitive Humans** *DIABETES*  
McLaughlin, T., Craig, C., Liu, L., Perelman, D., Allister, C., Spielman, D., Cushman, S. W.  
2016; 65 (5): 1245-1254
- **Pasireotide Induced Adrenal Insufficiency.** *Clinical endocrinology*  
Weaver, K. n., Craig, C. n., McLaughlin, T. n.  
2016
- **Macro fat and micro fat: insulin sensitivity and gender dependent response of adipose tissue to isocaloric diet change** *ADIPOCYTE*  
Li, Y., Gaillard, J. R., McLaughlin, T., Sorensen, T. A., Periwai, V.  
2015; 4 (4): 256-63
- **The receptor CD44 is associated with systemic insulin resistance and proinflammatory macrophages in human adipose tissue** *DIABETOLOGIA*  
Liu, L. F., Kodama, K., Wei, K., Tolentino, L. L., Choi, O., Engleman, E. G., Butte, A. J., McLaughlin, T.  
2015; 58 (7): 1579-1586
- **In vivo 2H2O administration reveals impaired triglyceride storage in adipose tissue of insulin-resistant humans.** *Journal of lipid research*  
Allister, C. A., Liu, L., Lamendola, C. A., Craig, C. M., Cushman, S. W., Hellerstein, M. K., McLaughlin, T. L.  
2015; 56 (2): 435-439
- **T-Cell Profile in Adipose Tissue Is Associated With Insulin Resistance and Systemic Inflammation in Humans** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
McLaughlin, T., Liu, L., Lamendola, C., Shen, L., Morton, J., Rivas, H., Winer, D., Tolentino, L., Choi, O., Zhang, H., Chng, M. H., Engleman, E.  
2014; 34 (12): 2637-2643
- **T-cell profile in adipose tissue is associated with insulin resistance and systemic inflammation in humans.** *Arteriosclerosis, thrombosis, and vascular biology*  
McLaughlin, T., Liu, L., Lamendola, C., Shen, L., Morton, J., Rivas, H., Winer, D., Tolentino, L., Choi, O., Zhang, H., Hui Yen Chng, M., Engleman, E.  
2014; 34 (12): 2637-2643

- **Subcutaneous Adipose Cell Size and Distribution: Relationship to Insulin Resistance and Body Fat** *OBESITY*  
McLaughlin, T., Lamendola, C., Coghlan, N., Liu, T. C., Lerner, K., Sherman, A., Cushman, S. W.  
2014; 22 (3): 673-680
- **The Winged Helix Transcription Factor Foxa3 Regulates Adipocyte Differentiation and Depot-Selective Fat Tissue Expansion** *MOLECULAR AND CELLULAR BIOLOGY*  
Xu, L., Panel, V., Ma, X., Du, C., Hugendubler, L., Gavrilova, O., Liu, A., McLaughlin, T., Kaestner, K. H., Muellera, E.  
2013; 33 (17): 3392-3399
- **Use of a two-stage insulin infusion study to assess the relationship between insulin suppression of lipolysis and insulin-mediated glucose uptake in overweight/obese, nondiabetic women** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
McLaughlin, T., Yee, G., Glassford, A., Lamendola, C., Reaven, G.  
2011; 60 (12): 1741-1747
- **Preferential Fat Deposition in Subcutaneous Versus Visceral Depots Is Associated with Insulin Sensitivity** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Lamendola, C., Liu, A., Abbasi, F.  
2011; 96 (11): E1756-E1760
- **B cells promote insulin resistance through modulation of T cells and production of pathogenic IgG antibodies** *NATURE MEDICINE*  
Winer, D. A., Winer, S., Shen, L., Wadia, P. P., Yantha, J., Paltser, G., Tsui, H., Wu, P., Davidson, M. G., Alonso, M. N., Leong, H. X., Glassford, A., Caimol, et al  
2011; 17 (5): 610-U134
- **Differential adipogenic and inflammatory properties of small adipocytes in Zucker Obese and Lean rats** *DIABETES & VASCULAR DISEASE RESEARCH*  
Liu, A., Sonmez, A., Yee, G., Bazuine, M., Arroyo, M., Sherman, A., McLaughlin, T., Reaven, G., Cushman, S., Tsao, P.  
2010; 7 (4): 311-318
- **Glucose-Stimulated Insulin Secretion in Gastric Bypass Patients with Hypoglycemic Syndrome: No Evidence for Inappropriate Pancreatic beta-cell Function** *OBESITY SURGERY*  
Kim, S. H., Abbasi, F., Lamendola, C., Reaven, G. M., McLaughlin, T.  
2010; 20 (8): 1110-1116
- **Pioglitazone Increases the Proportion of Small Cells in Human Abdominal Subcutaneous Adipose Tissue** *OBESITY*  
McLaughlin, T. M., Liu, T., Yee, G., Abbasi, F., Lamendola, C., Reaven, G. M., Tsao, P., Cushman, S. W., Sherman, A.  
2010; 18 (5): 926-931
- **Reversible Hyperinsulinemic Hypoglycemia after Gastric Bypass: A Consequence of Altered Nutrient Delivery** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Peck, M., Holst, J., Deacon, C.  
2010; 95 (4): 1851-1855
- **Using Pre-existing Microarray Datasets to Increase Experimental Power: Application to Insulin Resistance** *PLOS COMPUTATIONAL BIOLOGY*  
Daigle, B. J., Deng, A., McLaughlin, T., Cushman, S. W., Cam, M. C., Reaven, G., Tsao, P. S., Altman, R. B.  
2010; 6 (3)
- **Inflammation in subcutaneous adipose tissue: relationship to adipose cell size** *DIABETOLOGIA*  
McLaughlin, T., Deng, A., Yee, G., Lamendola, C., Reaven, G., Tsao, P. S., Cushman, S. W., Sherman, A.  
2010; 53 (2): 369-377
- **Plasma Glucose and Insulin Regulation Is Abnormal Following Gastric Bypass Surgery with or Without Neuroglycopenia** *OBESITY SURGERY*  
Kim, S. H., Liu, T. C., Abbasi, F., Lamendola, C., Morton, J. M., Reaven, G. M., McLaughlin, T. L.  
2009; 19 (11): 1550-1556
- **Differential Intra-abdominal Adipose Tissue Profiling in Obese, Insulin-resistant Women** *OBESITY SURGERY*  
Liu, A., McLaughlin, T., Liu, T., Sherman, A., Yee, G., Abbasi, F., Lamendola, C., Morton, J., Cushman, S. W., Reaven, G. M., Tsao, P. S.  
2009; 19 (11): 1564-1573
- **Plasma Glucose and Insulin Regulation Is Abnormal Following Gastric Bypass Surgery with or without Neuroglycopenia**  
Kim, S. H., Liu, T. C., Abbasi, F., Lamendola, C., Morton, J. M., Reaven, G. M., McLaughlin, T.  
AMER DIABETES ASSOC.2009: A10

- **Microvascular Dysfunction and Suboptimal Glycemic Control Predicts Poor Outcome Following Heart Transplantation** *58th Annual Scientific Session of the American-College-of-Cardiology*  
Khazanie, P., Haddad, F., Simos, A. M., Pham, M., Weisshaar, D. M., Desai, S. V., Shah, M. G., McLaughlin, T. L., Hunt, S. A., Valantine, H. A., Fearon, W. ELSEVIER SCIENCE INC.2009: A182–A182
- **Does Synchronizing Initiation of Therapy Affect Adherence to Concomitant Use of Antihypertensive and Lipid-Lowering Therapy?** *AMERICAN JOURNAL OF THERAPEUTICS*  
Agarwal, S., Tang, S. S., Rosenberg, N., Pettitt, D., McLaughlin, T., Joyce, A., Schwartz, J. S.  
2009; 16 (2): 119-126
- **Persistence of improvement in insulin sensitivity following a dietary weight loss programme** *DIABETES OBESITY & METABOLISM*  
McLaughlin, T., Schweitzer, P., Carter, S., Yen, C., Lamendola, C., Abbasi, F., Reaven, G.  
2008; 10 (12): 1186-1194
- **Insulin resistance is associated with a modest increase in inflammation in subcutaneous adipose tissue of moderately obese women** *DIABETOLOGIA*  
McLaughlin, T., Deng, A., Gonzales, O., AILLAUD, M., Yee, G., Lamendola, C., Abbasi, F., Connolly, A. J., Sherman, A., Cushman, S. W., Reaven, G., Tsao, P. S.  
2008; 51 (12): 2303-2308
- **Pioglitazone administration decreases cardiovascular disease risk factors in insulin-resistant smokers** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Abbasi, F., Farin, H. M., Lemendola, C., McGraw, L., McLaughlin, T., Reaven, G. M.  
2008; 57 (8): 1108-1114
- **Clinical experience with a relatively low carbohydrate, calorie-restricted diet improves insulin sensitivity and associated metabolic abnormalities in overweight, insulin resistant South Asian Indian women** *ASIA PACIFIC JOURNAL OF CLINICAL NUTRITION*  
Backes, A. C., Abbasi, F., Lamendola, C., McLaughlin, T. L., Reaven, G., Palaniappan, L. P.  
2008; 17 (4): 669-671
- **Small adipocytes: implications for inflammation and insulin resistance**  
Sonmez, A., Sung, K., Yee, G., Deng, A., Mullen, S., McLaughlin, T., Cushman, S., Reaven, G., Tsao, P.  
OXFORD UNIV PRESS.2007: 619–619
- **Enhanced proportion of small adipose cells in insulin-resistant vs insulin-sensitive obese individuals implicates impaired adipogenesis** *DIABETOLOGIA*  
McLaughlin, T., Sherman, A., Tsao, P., Gonzalez, O., Yee, G., Lamendola, C., Reaven, G. M., Cushman, S. W.  
2007; 50 (8): 1707-1715
- **Clinical efficacy of two hypocaloric diets that vary in overweight patients with type 2 diabetes - Comparison of moderate fat versus carbohydrate reductions** *DIABETES CARE*  
McLaughlin, T., Carter, S., Lamendola, C., Abbasi, F., Schaaf, P., Basina, M., Reaven, G.  
2007; 30 (7): 1877-1879
- **Lipoprotein abnormalities are associated with insulin resistance in South Asian Indian women** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Palaniappan, L. P., Kwan, A. C., Abbasi, F., Lamendola, C., McLaughlin, T. L., Reaven, G. M.  
2007; 56 (7): 899-904
- **Serum alanine aminotransferase levels decrease further with carbohydrate than fat restriction in insulin-resistant adults** *DIABETES CARE*  
Ryan, M. C., Carter, S., Abbasi, F., McLaughlin, T. L., Lamendola, C.  
2007; 30 (5): 1075-1080
- **Whole-body glycolysis measured by the deuterated-glucose disposal test correlates highly with insulin resistance in vivo** *DIABETES CARE*  
Beysen, C., Turner, H. C., Murphy, E. J., Awada, M., McLaughlin, T., Turner, S. M., Riiff, T., Reaven, G., Lamendola, C., Hellerstein, M. K.  
2007; 30 (5): 1143-1149
- **Heterogeneity in the prevalence of risk factors for cardiovascular disease and type 2 diabetes mellitus in obese individuals - Effect of differences in insulin sensitivity** *ARCHIVES OF INTERNAL MEDICINE*  
McLaughlin, T., Abbasi, F., Lamendola, C., Reaven, G.  
2007; 167 (7): 642-648
- **The relationship between insulin resistance and dyslipidaemia in cigarette smokers** *DIABETES OBESITY & METABOLISM*  
Farin, H. M., Abbasi, F., Kim, S. H., Lamendola, C., McLaughlin, T., Reaven, G. M.

2007; 9 (1): 65-69

- **The relationship between plasma adiponectin concentration and insulin resistance is altered in smokers** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
Abbasi, F., Farin, H. M., Lamendola, C., McLaughlin, T., Schwartz, E. A., Reaven, G. M., Reaven, P. D.  
2006; 91 (12): 5002-5007
- **Effects of moderate variations in macronutrient composition on weight loss and reduction in cardiovascular disease risk in obese, insulin-resistant adults** *AMERICAN JOURNAL OF CLINICAL NUTRITION*  
McLaughlin, T., Carter, S., Lamendola, C., Abbasi, F., Yee, G., Schaaf, P., Basina, M., Reaven, G.  
2006; 84 (4): 813-821
- **Differential effects of two hypocaloric diets (restricted carbohydrate versus restricted fat) on hepatic aminotransferases in obese insulin resistant individuals: An intervention study** *57th Annual Meeting of the American-Association-for-the-Study-of-Liver-Diseases*  
Ryan, M. C., McLaughlin, T. L., Reaven, G. M.  
WILEY-BLACKWELL.2006: 646A-646A
- **Plasma asymmetric dimethylarginine concentrations are elevated in obese insulin-resistant women and fall with weight loss** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Stuhlinger, M., Lamendola, C., Abbasi, F., Bialek, J., Reaven, G. M., Tsao, P. S.  
2006; 91 (5): 1896-1900
- **Metabolic and ovarian effects of rosiglitazone treatment for 12 weeks in insulin-resistant women with polycystic ovary syndrome** *HUMAN REPRODUCTION*  
Cataldo, N. A., Abbasi, F., McLaughlin, T. L., Basina, M., Fechner, P. Y., Giudice, L. C., Reaven, G. M.  
2006; 21 (1): 109-120
- **Improvements in insulin resistance with weight loss, in contrast to rosiglitazone, are not associated with changes in plasma adiponectin or adiponectin multimeric complexes** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Abbasi, F., Chang, S. A., Chu, J. W., Ciaraldi, T. P., Lamendola, C., McLaughlin, T., Reaven, G. M., Reaven, P. D.  
2006; 290 (1): R139-R144
- **Is there a simple way to identify insulin-resistant individuals at increased risk of cardiovascular disease?** *AMERICAN JOURNAL OF CARDIOLOGY*  
McLaughlin, T., Reaven, G., Abbasi, F., Lamendola, C., Saad, M., Waters, D., Simon, J., Krauss, R. M.  
2005; 96 (3): 399-404
- **Rosiglitazone reduces glucose-stimulated insulin secretion rate and increases insulin clearance in nondiabetic, insulin-resistant individuals** *DIABETES*  
Kim, S. H., Abbasi, F., Chu, J. W., McLaughlin, T. L., Lamendola, C., Polonsky, K. S., Reaven, G. M.  
2005; 54 (8): 2447-2452
- **Effect of rosiglitazone treatment on circulating vascular and inflammatory markers in insulin-resistant subjects.** *Diabetes & vascular disease research*  
Chu, J. W., Abbasi, F., Lamendola, C., McLaughlin, T., Reaven, G. M., Tsao, P. S.  
2005; 2 (1): 37-41
- **Comparative effects of rosuvastatin and gemfibrozil on glucose, insulin, and lipid metabolism in insulin resistant, nondiabetic patients with combined dyslipidemia** *AMERICAN JOURNAL OF CARDIOLOGY*  
Lamendola, C., Abbasi, F., Chu, J. W., Hutchinson, H., Cain, V., Leary, E., McLaughlin, T., Stein, E., Reaven, G.  
2005; 95 (2): 189-193
- **Relationship to insulin resistance of the Adult Treatment Panel III diagnostic criteria for identification of the metabolic syndrome** *DIABETES*  
Cheal, K. L., Abbasi, F., Lamendola, C., McLaughlin, T., Reaven, G. M., Ford, E. S.  
2004; 53 (5): 1195-1200
- **Prevalence of insulin resistance and associated cardiovascular disease risk factors among normal weight, overweight, and obese individuals** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
McLaughlin, T., Allison, G., Abbasi, F., Lamendola, C., Reaven, G.  
2004; 53 (4): 495-499
- **Plasma ghrelin concentrations are decreased in insulin-resistant obese adults relative to equally obese insulin-sensitive controls** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Abbasi, F., Lamendola, C., Frayo, R. S., Cummings, D. E.



2004; 89 (4): 1630-1635

- **Rosuvastatin is efficacious as monotherapy in patients with combined dyslipidemia** *53rd Annual Scientific Session of the American-College-of-Cardiology*  
Abbasi, F., Chu, J. W., Lamendola, C., McLaughlin, T., Cain, V., Hutchinson, H. G., Reaven, G. M.  
ELSEVIER SCIENCE INC.2004: 480A–480A
- **Discrimination between obesity and insulin resistance in the relationship with adiponectin** *DIABETES*  
Abbasi, F., Chu, J. W., Lamendola, C., McLaughlin, T., Hayden, J., Reaven, G. M., Reaven, P. D.  
2004; 53 (3): 585-590
- **Plasma adiponectin concentrations do not increase in association with moderate weight loss in insulin-resistant, obese women** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Abbasi, F., Lamendola, C., McLaughlin, T., Hayden, J., Reaven, G. M., Reaven, P. D.  
2004; 53 (3): 280-283
- **Effect of metformin treatment on multiple cardiovascular disease risk factors in patients with type 2 diabetes mellitus** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Abbasi, F., Chu, J. W., McLaughlin, T., Lamendola, C., Leary, E. T., Reaven, G. M.  
2004; 53 (2): 159-164
- **Obesity, insulin resistance, and cardiovascular disease** *RECENT PROGRESS IN HORMONE RESEARCH, VOL 59*  
Reaven, G., Abbasi, F., McLaughlin, T.  
2004; 59: 207-223
- **Use of metabolic markers to identify overweight individuals who are insulin resistant** *ANNALS OF INTERNAL MEDICINE*  
McLaughlin, T., Abbasi, F., Cheal, K., Chu, J., Lamendola, C., Reaven, G.  
2003; 139 (10): 802-809
- **Usefulness of plasma glucose and insulin concentrations in identifying patients with insulin resistance** *AMERICAN JOURNAL OF CARDIOLOGY*  
Tuan, C. Y., Abbasi, F., Lamendola, C., McLaughlin, T., Reaven, G.  
2003; 92 (5): 606-610
- **Lipoprotein risk factors for cardiovascular disease in patients with type 2 diabetes mellitus treated with oral antihyperglycaemic agents** *DIABETES OBESITY & METABOLISM*  
Chu, J. W., Abbasi, F., McLaughlin, T. L., Lamendola, C., Schaaf, P., Carlson, T. H., Leary, E. T., Reaven, G. M.  
2003; 5 (5): 333-337
- **Multiple lipoprotein abnormalities associated with insulin resistance in healthy volunteers are identified by the vertical auto profile-II methodology** *CLINICAL CHEMISTRY*  
Chu, J. W., Abbasi, F., Kulkarni, K. R., Lamendola, C., McLaughlin, T. L., Scalisi, J. N., Reaven, G. M.  
2003; 49 (6): 1014-1017
- **Rosiglitazone in insulin-resistant women with polycystic ovary syndrome: effects on ovarianfunction and metabolism**  
Cataldo, N. A., Abbasi, F., McLaughlin, T. L., Chu, J. W., Basina, M., Fechner, P. Y., Reaven, G. M., Giudice, L. C.  
OXFORD UNIV PRESS.2003: 43–43
- **Differentiation between obesity and insulin resistance in the association with C-reactive protein** *CIRCULATION*  
McLaughlin, T., Abbasi, F., Lamendola, C., Liang, L., Reaven, G., Schaaf, P., Reaven, P.  
2002; 106 (23): 2908-2912
- **Comparison in patients with type 2 diabetes of fibric acid versus hepatic hydroxymethyl glutaryl- coenzyme a reductase inhibitor treatment of combined dyslipidemia** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
McLaughlin, T., Abbasi, F., Lamendola, C., Leary, E., Reaven, G. M.  
2002; 51 (10): 1355-1359
- **Relationship between obesity, insulin resistance, and coronary heart disease risk** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Abbasi, F., Brown, B. W., Lamendola, C., McLaughlin, T., Reaven, G. M.  
2002; 40 (5): 937-943
- **Metformin treatment lowers asymmetric dimethylarginine concentrations in patients with type 2 diabetes** *METABOLISM-CLINICAL AND EXPERIMENTAL*

- Asagami, T., Abbasi, F., Stuelinger, M., Lamendola, C., McLaughlin, T., Cooke, J. P., Reaven, G. M., Tsao, P. S.  
2002; 51 (7): 843-846
- **Relationship between insulin resistance and an endogenous nitric oxide synthase inhibitor** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Stuhlinger, M. C., Abbasi, F., Chu, J. W., Lamendola, C., McLaughlin, T. L., Cooke, J. P., Reaven, G. M., Tsao, P. S.  
2002; 287 (11): 1420-1426
  - **Plasma concentrations of asymmetric dimethylarginine are increased in patients with type 2 diabetes mellitus** *AMERICAN JOURNAL OF CARDIOLOGY*  
Abbasi, F., Asagami, T., Cooke, J. P., Lamendola, C., McLaughlin, T., Reaven, G. M., Stuehlinger, M., Tsao, P. S.  
2001; 88 (10): 1201-?
  - **Improvement in insulin sensitivity followed by ovulation and pregnancy in a woman with polycystic ovary syndrome who was treated with rosiglitazone** *83rd Annual Meeting of the Endocrine-Society*  
Cataldo, N. A., Abbasi, F., McLaughlin, T. L., Lamendola, C., Reaven, G. M.  
ELSEVIER SCIENCE INC.2001: 1057-59
  - **Effect of insulin resistance on postprandial elevations of remnant lipoprotein concentrations in postmenopausal women** *AMERICAN JOURNAL OF CLINICAL NUTRITION*  
Kim, H. S., Abbasi, F., Lamendola, C., McLaughlin, T., Reaven, G. M.  
2001; 74 (5): 592-595
  - **Relationship between insulin resistance, weight loss, and coronary heart disease risk in healthy, obese women** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
McLaughlin, T., Abbasi, F., Kim, H. S., Lamendola, C., Schaaf, P., Reaven, G.  
2001; 50 (7): 795-800
  - **Metabolic changes following sibutramine-assisted weight loss in obese individuals: Role of plasma free fatty acids in the insulin resistance of obesity** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
McLaughlin, T., Abbasi, F., Lamendola, C., Kim, H. S., Reaven, G. M.  
2001; 50 (7): 819-824
  - **Insulin resistance, dietary cholesterol, and cholesterol concentration in postmenopausal women** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Reaven, G. M., Abbasi, F., Bernhart, S., Coulston, A., Darnell, B., Dashti, N., Kim, H. S., Kulkarni, K., Lamendola, C., McLaughlin, T., Osterlund, L., Schaff, P., Segrest, et al  
2001; 50 (5): 594-597
  - **Carbohydrate-induced hypertriglyceridemia: An insight into the link between plasma insulin and triglyceride concentrations** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Abbasi, F., Lamendola, C., Yeni-Komshian, H., Reaven, G.  
2000; 85 (9): 3085-3088
  - **Insulin resistance and hypertension - Patients in double jeopardy for cardiovascular disease** *GERIATRICS*  
McLaughlin, T., Reaven, G.  
2000; 55 (6): 28-?
  - **Plasma insulin concentration is more tightly linked to plasma leptin concentration than is the body mass index** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Abbasi, F., Carantoni, M., McLaughlin, T., Reaven, G. M.  
2000; 49 (4): 544-547
  - **The relationship between glucose disposal in response to physiological hyperinsulinemia and basal glucose and free fatty acid concentrations in healthy volunteers** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
Abbasi, F., McLaughlin, T., Lamendola, C., Reaven, G. M.  
2000; 85 (3): 1251-1254
  - **Insulin regulation of plasma free fatty acid concentrations is abnormal in healthy subjects with muscle insulin resistance** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Abbasi, F., McLaughlin, T., Lamendola, C., Reaven, G. M.  
2000; 49 (2): 151-154
  - **High carbohydrate diets, triglyceride-rich lipoproteins, and coronary heart disease risk** *AMERICAN JOURNAL OF CARDIOLOGY*

Abbasi, F., McLaughlin, T., Lamendola, C., Kim, H. S., Tanaka, A., Wang, T., Nakajima, K., Reaven, G. M.  
2000; 85 (1): 45-48

- **Fasting remnant lipoprotein cholesterol and triglyceride concentrations are elevated in nondiabetic, insulin-resistant, female volunteers** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
Abbasi, F., McLaughlin, T., Lamendola, C., Yeni-Komshian, H., Tanaka, A., Wang, T., Nakajima, K., Reaven, G. M.  
1999; 84 (11): 3903-3906
- **Comparison of plasminogen activator inhibitor-1 concentration in insulin-resistant versus insulin-sensitive healthy women** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Abbasi, F., McLaughlin, T., Lamendola, C., Lipinska, I., Tofler, G., Reaven, G. M.  
1999; 19 (11): 2818-2821
- **Mononuclear cell adherence to cultured endothelium is enhanced by hypertension and insulin resistance in healthy nondiabetic volunteers** *CIRCULATION*  
Chen, N. G., Abbasi, F., Lamendola, C., McLaughlin, T., Cooke, J. P., Tsao, P. S., Reaven, G. M.  
1999; 100 (9): 940-943
- **Differences in insulin resistance do not predict weight loss in response to hypocaloric diets in healthy obese women** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
McLaughlin, T., Abbasi, F., Carantoni, M., Schaaf, P., Reaven, G.  
1999; 84 (2): 578-581