

Curriculum Vitae

James Mukasa Ntambi, PhD

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TITLE: Professor of Biochemistry and Steenbock Professor of Nutritional Sciences, UW-Madison, Madison WI, USA
Adjunct Professor of Biological Chemistry, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

EDUCATION AND DEGREES:

1972-1975 BSc (Hons) Chemistry and Biochemistry
Makerere University, Kampala, Uganda

1975-1978 Msc in Microbial Biochemistry
Makerere University, Kampala, Uganda

1980-1985 PhD Johns Hopkins University School of Medicine, Baltimore, MD, USA
Thesis title: "Studies on the Replication of Kinetoplast DNA in *Trypanosoma Equiperdum*" Major Professor: Paul Englund

POSITIONS HELD:

1975-1978 **Research Fellow**, Federal Republic of Germany (DAAD)
Makerere University, Kampala, Uganda

1976-1980 **Resident Tutor/Warden**, Makerere University, Kampala, Uganda

1978-1980 **University Lecturer** in Biochemistry, Makerere University,
Kampala, Uganda

1980-1985 Fulbright Fellows; **Graduate Research Assistant**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA
Mentor: Professor Paul Englund

1985-1987 **Rockefeller Foundation Postdoctoral Research Fellow**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA
Mentor: Professor Daniel M. Lane

- 1987-1989 **Research Associate**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA Title: Genetic regulation of fat cell differentiation and metabolism, Mentor: Professor Daniel M. Lane
- 1989-1992 **Assistant Professor of Biochemistry and Molecular Biology**, Georgetown University Medical School, Washington, DC USA
- 1992-97 **Assistant Professor of Biochemistry and of Nutritional Sciences**, University of Wisconsin-Madison, Madison, Wisconsin, USA
- 2000 **Acting Assistant Dean**, College of Agricultural and Life Sciences, University of Wisconsin-Madison, Madison, Wisconsin, USA
- 1997- 2002 **Associate Professor of Biochemistry and of Nutritional Sciences**, University of Wisconsin-Madison, Madison, Wisconsin, USA
- 2002-Present **Professor of Biochemistry and of Nutritional Sciences**, University of Wisconsin-Madison, Madison, Wisconsin, USA
- 2003-Present **Katherine Berns Van Donk Steenbock Professor in Nutrition** University of Wisconsin-Madison, Madison, Wisconsin, USA
- 2011-2015 **Chair, Department of Nutritional Sciences**, University of Wisconsin-Madison, USA
- 2011-2015 **Director of Interdepartmental Graduate Program in Nutritional Sciences**, University of Wisconsin-Madison, USA
- 2016- **Adjunct Professor of Biological Chemistry**, Johns Hopkins University School of Medicine, Baltimore MD

HONORS AND AWARDS:

- 1975 Honors in Biochemistry and Chemistry
- 1975 UNDP/UNESCO Fellowship
- 1976-1978 Exchange Program of the Federal Republic of Germany (DAAD) Fellowship
- 1980-1985 Predoctoral Fulbright Fellowship
- 1985 The David Israel Macht Research Award in Medical Science, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA
- 1985-1987 Rockefeller Foundation Postdoctoral Fellowship
- 1986 Rockefeller Foundation Career Development Award

1990-1997 Frolisch/New York Academy of Sciences Fellowship

1991 Nominee for Dean's Medical School Teaching Award, Georgetown University School of Medicine, Washington, DC

1992-1998 Steenbock Career Development Award, University of Wisconsin-Madison, Madison, Wisconsin

1994-2000 Fogarty International Center/National Institutes of Health (NIH) International Biomedical Research Minority Faculty Fellowship

2001-2003 Wisconsin/Hilldale Undergraduate/Faculty Research award

2002 Outstanding teaching and advising Award Univ. of Wisconsin-Madison

2003 Katherine Berns Van Donk Steenbock Professor in Nutrition

2004 Osborne and Mandel award in Nutritional Sciences

2005 Hilldale Faculty Research award, University of Wisconsin-Madison

2006 Hilldale Faculty Research award, University of Wisconsin-Madison

2008 Fulbright Fellow, African Regional Research Award
College of Agricultural and Life Sciences Extra Mile Award
Vilas Research Award, University of Wisconsin-Madison

2009 Excellence in International Activities award, University of Wisconsin-Madison
Scientist of the week
Elected to the Uganda National Academy of Sciences (UNAS)

2010 Chancellor's distinguished Teaching award

2012 Appointed to the Institute of Medicine (IOM)/Food Nutrition Board of the US National Academy of Sciences
Appointed to the International committee of the American Society for Cell Biology (ASCB)

2013 Hilldale Faculty Research award, University of Wisconsin-Madison
American Society for Biochemistry and Molecular Biology (ASBMB) Award for Exemplary Contributions to Education

Reappointed to the Board of Scientific Counselors of the National Institutes of Health/National Institute of Alcohol and Alcohol Abuse (NIH/NIAAA)

Reappointed, the Katherine Berns Van Donk Steenbock Professor of Nutrition

“Ekitiibwa kya Buganda” Award for Contributions to Education

- 2016 Wisconsin Without Borders Peter Bosscher Award
- 2018 Appointed Council Member of the American Society of Biochemistry and Molecular Biology (ASBMB)
- 2021 Re-elected Council Member of the American Society of Biochemistry and Molecular Biology (ASBMB)
- 2023 Named Fellow of the American Society of Biochemistry and Molecular Biology (ASBMB)

RESEARCH AND TEACHING AND SERVICE:

RESEARCH TRAINING AT WISCONSIN:

Past trainees include: 15 Postdoctoral fellows, 22 PhDs, 4 Masters, 30 Undergraduates and 4 High school students.

GENERAL RESEARCH INTERESTS:

I have laid the groundwork on understanding the genetic aspects of obesity and related metabolic diseases since 1985. My laboratory combines metabolic research with current approaches of genetics, metabolomics, lipidomics and mouse gene knockout technology to unravel mechanisms of carbohydrate and lipid metabolism in health and disease. I have worked on adipocyte differentiation, hormonal and dietary regulation of gene expression, and in more recent years, I have used a multidisciplinary approach to unravel the physiological role of the stearoyl-CoA desaturase genes in lipid and carbohydrate metabolism. I am using transgenic mouse models to study the influence of dietary and endogenously synthesized fatty acid molecules on metabolism. Recent work has focused on the role monounsaturated fatty acids in diet induced de novo lipogenesis, obesity and insulin resistance. We are pushing forward to extrapolate our animal work to practical application in humans. Based on our findings pharmaceutical companies are developing drugs for the treatment of human obesity, diabetes and cancer.

I am also interested in conducting research on obesity and diabetes and other non-communicable metabolic diseases in developing countries. I strive to translate basic science research into treatment and prevention strategies and share the validated treatment and prevention tools to the communities in developing countries and across the World. I provide advice on how to

prevent or delay the progression of metabolic diseases through nutritional interventions and lifestyle changes.

I am involved in building the African National Sciences Research Consortium (ANSRC), which is a consortium bringing together academic and research institutions across the East and central African region with the goal of building a PhD training program in basic laboratory research in biochemistry and nutritional sciences.

PUBLICATIONS:

233. **Ntambi JM**, Liu X, Burhans MS, Aljohani A, Selen ES, Kalyesubula M, Assadi-Porter F. (2023) Hepatic oleate regulates one-carbon metabolism during high carbohydrate feeding. *Biochem Biophys Res Commun.* 651:62-69. PMID: 36791500
232. O'Neill LM, Phang YX, Liu Z, Lewis SA, Aljohani A, McGahee A, Wade G, Kalyesubula M, Simcox J, **Ntambi JM**. (2022) Hepatic Oleate Regulates Insulin-like Growth Factor-Binding Protein 1 Partially through the mTORC1-FGF21 Axis during High-Carbohydrate Feeding. *Int J Mol Sci.* 23(23):14671. PMID: 36498997
231. **James M. Ntambi** Role of stearoyl-CoA Desaturase in Hepatic De novo Lipogenesis *BBRC* 633 81-83.
230. Ducheix S, Piccinin E, Peres C, Garcia-Irigoyen O, Bertrand-Michel J, Fouache A, Cariello M, Lobaccaro JM, Guillou H, Sabbà C, **Ntambi JM**, Moschetta A. (2022) Reduction in gut-derived MUFAs via intestinal stearoyl-CoA desaturase 1 deletion drives susceptibility to NAFLD and hepatocarcinoma. *Hepatology Commun.* 6(10):2937-2949. PMID: 3590385
229. Burchat N, Akal T, **Ntambi JM**, Trivedi N, Suresh R, Sampath H. (2022) SCD1 is nutritionally and spatially regulated in the intestine and influences systemic postprandial lipid homeostasis and gut-liver crosstalk. *Biochim Biophys Acta Mol Cell Biol Lipids.* 1867(9):159195. PMID: 35718096
228. Ana-Maria Gan, Zuzanna Tracz-Gaszewska, Aleksandra Ellert-Miklaszewska, Viktor O. Navrulin, **James M. Ntambi** and Pawel Dobrzyn Stearoyl-CoA Desaturase Regulates Angiogenesis and Energy Metabolism in Ischemic Cardiomyocytes *Int. J. Mol. Sci.* 2022, 23, 10459
227. Rabionet M, Bernard P, Pichery M, Marsching C, Bayerle A, Dworski S, Kamani MA, Chitraju C, Gluchowski NL, Gabriel KR, Asadi A, Ebel P, Hoekstra M, Dumas S, **Ntambi JM**, Jacobsson A, Willecke K, Medin JA, Jonca N, Sandhoff R. (2022) Epidermal 1-O-acylceramides appear with the establishment of the water permeability barrier in mice and are produced by maturing keratinocytes. *Lipids.* 57(3):183-195. PMID: 35318678
226. Wade G, McGahee A, **Ntambi J**, and Simcox J. Lipid transport in brown adipocytes thermogenesis. 2021. *Frontiers in Physiology.* 12.10.3389/fphys.2021.787535.
225. Olorundare OE, Adeneye AA, Akinsola AO, Ajayi AM, Agede OA, Soyemi SS, Mgbehoma AI, Okoye II, Albrecht RM, **Ntambi JM**, Crooks PA. (2021) Therapeutic Potentials

of Selected Antihypertensive Agents and Their Fixed-Dose Combinations Against Trastuzumab-Mediated Cardiotoxicity. *Front. Pharmacol.* 11:610331. PMID: 33897413

224. Zhang Y, Gui M, Wang Y, Mani N, Chaudhuri S, Gao B, Li H, Kanwar YS, Lewis SA, Dumas SN, **Ntambi JM**, Zhang K, Fang D. (2021) Inositol-Requiring Enzyme 1 α -Mediated Synthesis of Monounsaturated Fatty Acids as a Driver of B Cell Differentiation and Lupus-like Autoimmune Disease. *Arthritis Rheumatol.* 73(12):2314-2326. PMID: 34105254

223. Adam Olichwier, Volodymyr V. Balatskyi, Marcin Wolosiewicz, **James M. Ntambi** and Pawel Dobrzyn (2020) Interplay between Thyroid Hormones and Stearoyl-CoA Desaturase 1 in the Regulation of Lipid Metabolism in the Heart. *Int. J. Mol. Sci.* 22(1):109. PMID: 33374300

222. O'Neill LM, Guo CA, Ding F, Phang YX, Liu Z, Shamsuzzaman S, **Ntambi JM**. (2020) Stearoyl-CoA Desaturase-2 in Murine Development, Metabolism, and Disease. *Int J Mol Sci.* 21(22):8619. PMID: 33207603

221. Olufunke Olorundare, Adejuwon Adeneye, Akinyele Akinsola, Sunday Soyemi, Alban Mgbehoma, Ikechukwu Okoye, **James M. Ntambi**, and Hasan Mukhta African Vegetables (Clerodendrum volubile Leaf and Irvingia gabonensis Seed Extracts) Effectively Mitigate Trastuzumab-Induced Cardiotoxicity in Wistar Rats. Adejuwon Adeneye *Oxidative Medicine and Cellular Longevity* Volume 2020, Article ID 9535426, PMCID: PMC7644299

220. **James M. Ntambi**. Editor (2020), *Lipid Signaling and Metabolism* Springer.

219. Juan Zheng, Ting Chen, Xin Guo, **James M. Ntambi**, and Chaodong Wu (2020) Interplays between nutritional and inflammatory signaling and fat metabolism in pathophysiology of NAFLD. In: *Lipid Signaling and Metabolism*. J. M. Ntambi Editor Springer pages 197-221

218. Frédéric Desmarais, Karl F. Bergeron, **James M. Ntambi** and Catherine Mounier (2020) Fatty acid mediators and the inflammasome. In: *Lipid Signaling and Metabolism*. J. M. Ntambi Editor Springer. pages 273-295

217. Rachel M. Golonka, Ahmed Abokor, **James M. Ntambi** and Matam Vijay-Kumar (2020) Gut Microbiota Interaction in Host Lipid Metabolism In: *Lipid Signaling and Metabolism*. J. M. Ntambi Editor Springer. pages 321-343.

216. Ademola O. Ayeleso, Mashudu G. Matumba, **James M. Ntambi** and Emmanuel Mukwevho (2020) Insights into the metabolism of lipids in Obesity and Diabetes In: *Lipid Signaling and Metabolism*. J. M. Ntambi Editor Springer. pages 345-357.

215. Elena Piccinin, **James M. Ntambi**, Antonio Moschetta (2020) Lipid Metabolism and Signaling in Cancer In: *Lipid Signaling and Metabolism*. J. M. Ntambi Editor Springer. pages 455-467

214. Hayes CE, **Ntambi JM**. (2020) Multiple Sclerosis: Lipids, Lymphocytes, and Vitamin D. *Immunometabolism.* 2(3):e200019. Epub. PMID: 32528735 [[PubMed](#)]

213. O'Neill LM, Phang YX, Matango M, Shamsuzzaman S, Guo CA, Nelson DW, Yen CE, **Ntambi JM**. (2020) Global Deficiency of stearyl-CoA desaturase-2 Protects Against Diet-Induced Adiposity. *Biochem Biophys Res Commun.* 30;527(3):589-595. PMID: 32423819 [[PubMed](#)]

212. Bogie JF, Grajchen E, Wouters E, Corrales AG, Dierckx T, Vanherle S, Maileux J, Gervois P, Wolfs E, Dehairs J, Van Broeckhoven J, Bowman AP, Lambrechts I, Gustafsson J-A, Remaley AT, Mulder M, Swinnen JV, Haidar M, Ellis SR, **Ntambi JM**, Zelcer N, Hendriks JJA. (2020) Stearoyl-CoA desaturase-1 Impairs the reparative properties of macrophages and microglia in the brain. *J Exp Med*. 217(5). PMID: 32097464 [[PubMed](#)]
211. **James M Ntambi** (2019) Highlighting Inflammation and Lipid Metabolism. *Biochem Biophys Res Commun*. 520(4), 688-689. PMID: 31761079 [[PubMed](#)]
210. AlJohani A, Khan MI, Bonneville A, Guo C, Jeffery J, O'Neill L, Syed DN, Lewis SA, Burhans M, Mukhtar H, **Ntambi JM**. (2019) Hepatic stearoyl CoA desaturase 1 deficiency increases glucose uptake in adipose tissue partially through the PGC-1 α -FGF21 axis in mice. *J Biol Chem*. 294(51), 19475-19485. PMID: 31690632 [[PubMed](#)]
209. Aljohani A, Khan MI, Syed DN, Abram B, Lewis S, Neill LO, Mukhtar H, **Ntambi JM**. (2019) Hepatic Stearoyl-CoA desaturase-1 deficiency-mediated activation of mTORC1- PGC-1 α axis regulates ER stress during high-carbohydrate feeding. *Sci Rep*. 9(1):15761. PMID: 31673045 [[PubMed](#)]
208. Piccinin E, Cariello M, De Santis S, Ducheix S, Sabbà C, **Ntambi JM**, Moschetta A. (2019) Role of Oleic Acid in the Gut-Liver Axis: From Diet to the Regulation of Its Synthesis via Stearoyl-CoA Desaturase 1 (SCD1). *Nutrients*. 11(10). pii: E2283. PMID: 31554181 [[PubMed](#)]
207. Kasza I, Adler D, Nelson DW, Eric Yen CL, Dumas S, Ntambi JM, MacDougald OA, Hernando D, Porter WP, Best FA, Alexander CM. (2019) Evaporative cooling provides a major metabolic energy sink. *Mol Metab*. 27:47-61. PMID: 31302039 [[PubMed](#)]
206. Miller KN, Clark JP, Martin SA, Howell PR, Burhans MS, Haws SA, Johnson NB, Rhoads TW, Pavelec DM, Eliceiri KW, Roopra AS, **Ntambi JM**, Denu JM, Parks BW, Anderson RM. (2019) PGC-1 α integrates a metabolism and growth network linked to caloric restriction. *Aging Cell*. 18(5):e12999. PMID: 31267675 [[PubMed](#)]
205. Dziejulska A, Dobosz AM, Dobrzyn A, Smolinska A, Kolczynska K, **Ntambi JM**, Dobrzyn P. (2019) SCD1 regulates the AMPK/SIRT1 pathway and histone acetylation through changes in adenine nucleotide metabolism in skeletal muscle. *J Cell Physiol Jun 26* [Epub ahead of print]. PMID: 31241768 [[PubMed](#)]
204. Dumas SN, Guo CA, Kim JK, Friedline RH, **Ntambi JM** (2019) Interleukin-6 derived from cutaneous deficiency of stearoyl-CoA desaturase-1 may mediate metabolic organ crosstalk among skin, adipose tissue and liver *Biochem. Biophys. Res. Commun*. 508(1):87-91. [Epub 2018 Nov 22] PMID: 30470572 [[PubMed](#)]
203. Bond LM, Burhans MS, **Ntambi JM**. (2018) Uncoupling protein-1 deficiency promotes brown adipose tissue inflammation and ER stress. *PLoS One*. Nov 14;13(11):e0205726. eCollection PMID:30427862 [[PubMed](#)]
202. Khan MI, Al Johani A, Hamid A, Ateeq B, Manzar N, Adhami VM, Lall RK, Rath S, Sechi M, Siddiqui IA, Choudhry H, Zamzami MA, Havighurst TC, Huang W, **Ntambi JM**, Mukhtar

- H. (2018) Pro-proliferative function of adaptor protein GRB10 in prostate carcinoma. *FASEB J.*33(3):3198-3211. PMID: 30379590 [[PubMed](#)]
201. Spiegel S., **Ntambi J.** Editorial for BBRC lipidomics special issue. *Biochem. Biophys Res Commun* 2018 Oct 7; 504(3):iii. doi: 10.1016/j.bbrc.2018.09.117. PMID: 30379590
200. Sabrina N Dumas and **James M Ntambi** (2018) A Discussion on the Relationship between Skin Lipid Metabolism and Whole-Body Glucose and Lipid Metabolism: Systematic Review. *Journal of Cell Signaling* 3(3). pii: 189. Epub 2018 Oct 10. PMID: 30474082 [[PubMed](#)]
199. Mukherjee P, Hough G, Chattopadhyay A, Grijalva V, O'Connor EI, Meriwether D, Wagner A, **Ntambi JM**, Navab M, Reddy ST, Fogelman AM (2018) Role of Enterocyte Stearoyl Co-A Desaturase-1 in LDLR Null Mice *J Lipid Res.* 2018 Oct;59(10):1818-1840. Epub 2018 Aug 23. PMID: 30139760 [[PubMed](#)]
198. Ducheix S, Peres C, Härdfeldt J, Frau C, Mocciaro G, Piccinin E, Lobaccaro JM, De Santis S, Chieppa M, Bertrand-Michel J, Plateroti M, Griffin JL, Sabbà C, **Ntambi JM**, Moschetta A (2018) Ablation of Stearoyl-CoA Desaturase-1 in the intestinal epithelium drives gut inflammation and tumorigenesis that are rescued by dietary oleate. *Gastroenterology.* Nov;155(5):1524-1538.e9. Epub 2018 Jul 29. PMID: 30063922 [[PubMed](#)]
197. Sabrina Dumas and **James M. Ntambi** (2018) Increased hydrophilic plasma bile acids are correlated with protection from adiposity in skin-specific stearoyl-CoA desaturase-1 deficient mice *PLoS One.* Jul 2;13(7): e0199682. PMID: 29965978 [[PubMed](#)]
196. Kohno S, Keenan AL, **Ntambi JM**, Miyazaki M (2018) Lipidomic Insight into cardiovascular diseases. *Biochem Biophys Res Commun.* Oct 7;504(3):590-595. doi:10.1016/j.bbrc.2018.04.106. Epub 2018 Apr 19. PMID: 29665359 [[PubMed](#)]
195. Mary J. Christoph, Diana S. Grigsby-Toussaint, and **James M. Ntambi** (2018) Health Data Collection Efforts and Non-Communicable Diseases: A Case Study in Uganda. In: *Public Health, Disease and Development in Africa, Geographies of Health Series*; Ezekiel Kalipeni, Juliet Iwelunmor, Diana Grigsby-Toussaint, and Imelda Moise editors
194. Inaba T, Tanaka Y, Tamaki S, Ito T, **Ntambi JM**, Tsubota K (2018) Compensatory increases in tear volume and mucin levels associated with meibomian gland dysfunction caused by stearoyl-CoA desaturase-1 deficiency. *Sci Rep.* Feb 20;8(1):3358. doi: 10.1038/s41598-018-21542-3. PMID: 29463801 [[PubMed](#)]
193. Laura Bond and **James M. Ntambi** (2017) UCP1 deficiency increases adipose tissue monounsaturated fatty acid synthesis and trafficking to the liver. *J. Lipid Res.* *J Lipid Res.* 59(2):224-236. PMID:29203476 [[PubMed](#)]
192. Sabrina Dumas and **James M. Ntambi** (2017) Co-conspirators in a new mechanism for the degradation of Delta 9 desaturase. *J. Biol. Chem.* 292(49):19987-19988. PMID:29222194 [[PubMed](#)]

191. ALJohani AM, Syed DN, **Ntambi JM**. (2017) Insights into Stearoyl-CoA Desaturase-1 Regulation of Systemic Metabolism. *Trends Endocrinol Metab.* (Epub) PMID: 29089222 [[PubMed](#)]
190. Forney LA, Stone KP, Wanders D, **Ntambi JM**, Gettys TW. (2017) The role of suppression of hepatic SCD1 expression in the metabolic effects of dietary methionine restriction. *Appl Physiol Nutr Metab.* (Epub) PMID: 28982014 [[PubMed](#)]
189. Lounis MA, Bergeron KF, Burhans MS, **Ntambi JM**, Mounier C. (2017) Oleate increases SREBP-1 signaling activity in SCD1 deficient hepatocytes. *Am J Physiol Endocrinol Metab.* (Epub) PMID: 28851735 [[PubMed](#)]
188. Christoph MJ, Grigsby-Toussaint DS, Baingana R, **Ntambi JM**. (2017) Physical Activity, Sleep, and BMI Percentile in Rural and Urban Ugandan Youth. *Ann of Glob Health* 83 (2) 311-319. PMID: 28619406 [[PubMed](#)]
187. Ansari IH, Longacre MJ, Stoker SW, Kendrick MA, O'Neill LM, Zitur LJ, Fernandez LA, **Ntambi JM**, MacDonald MJ. (2017) Characterization of Acyl-CoA synthetase isoforms in pancreatic beta cells: Gene silencing shows participation of ACSL3 and ACSL4 in insulin secretion. *Arch Biochem Biophys.* 618:32-43. PMID: 28193492 [[PubMed](#)]
186. Miller KN, Burhans MS, Clark JP, Howell PR, Polewski MA, DeMuth TM, Eliceiri KW, Lindstrom MJ, **Ntambi JM**, Anderson RM. (2017) Aging and caloric restriction impact adipose tissue, adiponectin, and circulating lipids. *Aging Cell.* Feb 03. doi: 10.1111/accel.12575. PMID: 28156058 PMCID: PMC5418198 [[PubMed](#)]
185. Lai KKY, Kweon SM, Chi F, Hwang E, Kabe Y, Higashiyama R, Qin L, Yan R, Wu RP, Lai K, Fujii N, French S, Xu J, Wang JY, Murali R, Mishra L, Lee JS, **Ntambi JM**, Tsukamoto H. (2017) Stearoyl-CoA Desaturase Promotes Liver Fibrosis and Tumor Development in Mice via Wnt Signaling and Stabilization of Low Density Lipoprotein Receptor-related Proteins 5 and 6. *Gastroenterology.* 152(6):1477-1491. PMID: 28143772 [[PubMed](#)]
184. Bednarski T, Olichwier A, Opasinska A, Pyrkowska A, Gan AM, **Ntambi JM**, Dobrzyn P. (2016) Stearoyl-CoA desaturase 1 deficiency reduces lipid accumulation in the heart by activating lipolysis independently of peroxisome proliferator-activated receptor alpha. *Biochim Biophys Acta* 1861 (12), 2029-2037. PMID: 27751891 [[PubMed](#)]
183. Sawin EA, Stroup BM, Murali SG, O'Neill LM, **Ntambi JM**, Ney DM. (2016) Differential Effects of Dietary Fat Content and Protein Source on Bone Phenotype and Fatty Acid Oxidation in Female C57Bl/6 Mice. *PLoS One* Oct 03. PMID: 27695036 PMCID: PMC5047596 [[PubMed](#)]
182. Lounis MA, Escoula Q, Veillette C, Bergeron KF, **Ntambi JM**, Mounier C. (2016) SCD1 deficiency protects mice against ethanol-induced liver injury. *Biochim Biophys Acta.* 1861(11) 1662-1670. PMID: 27477676 [[EPublish PubMed](#)]
181. Xueqing Liu, Maggie S. Burhans, Matthew T. Flowers, **James M. Ntambi** (2016) Hepatic oleate regulates liver stress response partially through PGC-1 α during high-carbohydrate feeding. *J Hepatology* 65, 103-112. PMID:26976120. PMCID: PMC4939798 [[PubMed](#)]

180. James M. Ntambi (2016) miRNAs Caught Up in Metabolic Organ Crosstalk to Combat Obesity. *EBioMedicine* 5, 10-11. PMID: 27077099 PMCID: PMC4816838 [[PubMed](#)]
179. Guo, C-A, Bond LM, and **Ntambi JM**. Metabolic Regulation of Inflammation. (2016) In: *Frontiers in Inflammation* Vol. 1, 83-105.
178. Maggie S. Burhans and **James M. Ntambi** (2016) Monounsaturated Fatty Acid Mediated Liver-Adipose Tissue Crosstalk and Metabolic Regulation. In: *Hepatic De Novo Lipogenesis and Regulation of Metabolism* J. M. Ntambi Editor Springer. pages 255-266.
177. Mohamed Amine, Lounis Sabri Rial, **James M. Ntambi** Catherine Mounier (2016) Role of Lipogenesis and Lipid Desaturases in Non-alcoholic Fatty Liver Disease. In: *Hepatic De Novo Lipogenesis and Regulation of Metabolism* J. M. Ntambi Editor Springer. pages 189-210.
176. Vishal Singh, Beng San Yeoh, **James M. Ntambi**, Matam Vijay-Kumar (2016) Influence of Gut Microbiota on Hepatic Lipogenesis and Disease Pathogenesis. In: *Hepatic De Novo Lipogenesis and Regulation of Metabolism* J. M. Ntambi Editor Springer. pages 143-164.
175. **James M. Ntambi** Editor (2016) *Hepatic De Novo Lipogenesis and Regulation of Metabolism*. Springer.
174. Masuda M, Miyazaki-Anzai S, Keenan AL, Okamura K, Kendrick J, Chonchol M, Offermanns S, **Ntambi JM**, Kuro-O M, Miyazaki M (2015) Saturated phosphatidic acids mediate saturated fatty acid-induced vascular calcification and lipotoxicity. *J Clin Invest*. 125(12):4544-4558. PMID: 26517697 [[PubMed](#)]
173. Vishal Singh, Benoit Chassaing, Limin Zhang, Beng San Yeoh, Xia Xiao Manish Kumar, Mark T Baker, Kevin Harvatine, **James M Ntambi**, Andrew D. Patterson, Andrew Gewirtz, Matam Vijay-Kumar (2015) Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase (SCD-1) Determines Metabolic Syndrome in TLR5-Deficient Mice. *Cell Metabolism* 22(6):983-96. PMID: 26525535 [[PubMed](#)]
172. Laura M. Bond, Makoto Miyazaki, Lucas M. O'Neill, Fang Ding, **James M. Ntambi** (2015) Fatty Acid Desaturation and Elongation in Mammals. In: *Biochemistry of Lipids, Lipoproteins and Membranes*. 6th edition D. E. Vance and J. E. Vance Editors
171. Polewski MA, Burhans MS, Zhao M, Colman RJ, Shanmuganayagam D, Lindstrom MJ, **Ntambi JM**, Anderson RM (2015) Plasma diacylglycerol composition is a biomarker of metabolic syndrome onset in rhesus monkeys. *J. Lipid Res*. 2015, 56: 1461-1470. PMID: 26063458 [[PubMed](#)]
170. Marty AJ, Broman AT, Zarnowski R, Dwyer TG, Bond LM, Lounes-Hadj Sahraoui A, Fontaine J, **Ntambi JM**, Keleş S, Kendzierski C, Gauthier GM. (2015) Fungal morphology, iron homeostasis, and lipid metabolism regulated by a GATA transcription factor in *Blastomyces dermatitidis*. *PLoS Pathog* 11(6) PMID: 26114571 [[PubMed](#)]

169. MacDonald MJ, Ade L, **Ntambi JM**, Stoker SW. (2015) Characterization of Phospholipids in Insulin Secretory Granules and Mitochondria in Pancreatic Beta Cells and Their Changes with Glucose Stimulation. *J Biol Chem.* 290 11075-11092. PMID: 25762724 [[PubMed](#)]
168. Burhans MS, Flowers MT, Harrington KR, Bond LM, Guo CA, Anderson RM, **Ntambi JM** (2015) Hepatic oleate regulates adipose tissue lipogenesis and fatty acid oxidation. *J. Lipid Res.* 56:(2) 304-318. PMID: 25555387 [[PubMed](#)]
167. **Ntambi JM** (2014) Stearoyl-CoA desaturases are regulators of lipid metabolism in skin. Chapter 15, "Lipids and Skin Health" Pappas Editor Springer.
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4. **Ntambi, J. M.**, Ryan, K. A. and Englund, P. T. (1987) The replication origin in kinetoplast DNA minicircles from *Trypanosoma equiperdum*. In: *Molecular Biology of Parasitic Invasion*, Alan R. Liss, Inc., pp. 113-120.
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2. **Ntambi, J. M.** and Englund, P. T. (1985) A gap at a unique location in newly replicated kinetoplast DNA minicircles from *Trypanosoma equiperdum*. *J. Biol. Chem.* 260, 5574-5579. [[PubMed](#)]
1. **Ntambi, J. M.**, Marini, J. C., Bangs, J. D., Hajduk, S. L., Jiminez, H. E., Kitchin, P. A., Klein, V. A., Ryan, K. A. and Englund, P. T. (1984) The presence of bent helix in the fragments of kinetoplast DNA minicircles from several trypanosomatid species. *Mol. Biochem. Parasitol.* 12, 273-286. [[PubMed](#)]

PATENTS:

1. Us Patent #P00186US
2. US Patent #7816075
3. US Patent #7696151
4. US Patent #7790408
5. US: 60/398,471: Methods for Increasing Insulin Sensitivity and for Treating and Preventing Type 2 Diabetes
6. US PO1394 US: Increased Lean Body Mass Through Inhibition of Stearoyl-CoA Desaturase (SCD1): SCD1 is a Target for Muscle Building and Lean Beef Production
7. P05141 US: Development of Specific Assay for Human SCD Isoforms and Determination of Substrate Specificities
8. P05362 US: Methods and Materials for Assaying Non-SCD1 Isoforms
9. P04003 US: Vitamin D Analogs for Obesity Prevention and Treatment; (App # 10/997698)
10. U.S. Patent Application No. 11/147,606: Stearoyl-CoA Desaturase 4 Gene
11. US P130387US01 Prevention and Treatment of Dermatitis and Ulcerative Dermatitis
12. P150057: Molecular Blood Profile and Use thereof for clinically predicting the subsequent development of metabolic syndrome and/or glucoregulatory impairment.

ABSTRACTS: more than 60

TEACHING:

Biochemistry 501: Introduction to Biochemistry (1993-2012)

This is a high enrollment course (approx. 800 students) that is designed to survey the principles of biochemistry for students who are non-majors and those who are biochemistry majors. Some of the students are graduate students. The course is taught every semester. The students come from different disciplines of the campus including Chemical Engineering, Nutritional Sciences, Bacteriology, Dairy Science, Horticulture, Meat and Animal Science. Biochemistry 501 therefore represents an important service course to the University. This is a three-credit course, which includes three lectures per week and two discussion sections led by the second- or third-year Ph.D. student within the department of Biochemistry. 22 of the 86 lectures per year are presented by myself while the other lectures are presented by Drs. Amasino (20), Butcher (22) and Kelly Harris-Johnson (22).

Biochemistry 510: Biochemical Principles of Human and Animal Nutrition (1999-2004)

This is a three-credit course emphasizing human nutrition. It is a team-taught course, and I present sixteen lectures on micronutrients and hormones that utilize steroid hormone nuclear receptors to elicit biological responses. Enrollment is about 70 students.

Biochemistry 511: Undergraduate seminar course (Fall 1996, Spring 2010)

This course is intended for the undergraduate students to disseminate information to colleagues about recent advances in biochemistry, cell biology, molecular biology, immunology, genetics, toxicology, virology, and neurology and related areas. It provides the students with an opportunity to study a topic of interest in depth and to practice oral presentation in a semi-formal, yet supportive setting.

Nutritional Sciences 619: Intermediary Metabolism of Macronutrients (Spring 2000-present)

This is a three-credit graduate team-taught course. My lectures are on lipid metabolism and gene expression.

Biochemistry 901: Nutrition and Metabolism seminar course (Fall 1994-present)

This is a 1 credit graduate level course taught in the fall. The seminar topics are organized as a series of talks, which deal with recent advances in a number of specific areas of importance to metabolism/nutrition. Dr. Richard Eisenstein and myself have assumed major responsibility for the organization and management of this course. 10-15 graduate students enroll in this course.

Biochemistry 999: Research orientation course (Fall 1993-present)

I have presented one lecture during the fall semester to new Biochemistry graduate students about various aspects of the research going on in my laboratory.

International Health and Nutrition: The Uganda Undergraduate Program (2002-present)

I have never been satisfied with success just in the classroom. I embody the philosophy that an educational experience at UW is multi-faceted and involves efforts outside the classroom as well as within it. For example, my contribution to international education is a significant service to the departments of biochemistry and nutritional sciences, the University of Wisconsin and the international community. Since the fall of 2002, I have led an extraordinary and invaluable program for UW-Madison undergraduates, taking them to Uganda to both learn about nutrition and put what they learn into practice – an experience that brings new meaning to their education.

The program combines a semester course with a 3-week field experience in Uganda. During the fall course, my colleagues here at UW and I provide students with background information on the biochemical basis of nutrition, agriculture, culture, education, economics and public health issues particular to Uganda, so that when they arrive they have a good grasp of the realities faced by Ugandans as they make their health and nutrition decisions. While in Uganda, they visit rural health centers, HIV/AIDS clinics, child nutrition centers, agricultural research

stations, farms and local markets to learn about the relationships between health, water and food. While in the field and towards the end of every day I discuss with the students the real life experiences they would have witnessed putting them in the context of biochemistry or nutritional sciences lectures they receive in classroom setting in Madison.

Global Health Certificate:

We provide global health field experience that introduces students to the many facets of multidisciplinary and collaborative approaches to global health. Our typical field course includes mobile clinics, some combination of site visits, service learning and meetings with government agencies, nonprofits and community groups in Uganda. The field experiences offer students the chance to see connections between human, animal and environmental health. They also allow them to compare their perceptions of health and wellness in new settings among diverse populations. Students on field courses do not provide medical care to patients.

UW-Madison School of Medicine and Public Health Global Health Institute Health and Disease in Uganda course and Field Experience

I teach and participate in the UW-Madison School of Medicine and Public Health Global Health Institute Health and Disease in Uganda course and Field Experience which is an intensive program that provides medical, nursing, pharmacy, veterinary medicine, and other graduate students the opportunity to learn about important health issues, including nutrition, maternal and child health, and infectious diseases. Throughout the program, you will also be introduced to the language, culture, and way of life of Uganda. During the program, the students spend time in community-based health care centers and visit hospitals, nutritional units, and schools. In addition, they interact with faculty, staff, and students from Makerere University, Mulago Hospital, and other institutions and non-governmental organizations. The students then spend time in small groups in rural areas, partnering with Makerere University students through the Community Based Education and Services (COBES) program. Here the students learn the health challenges of rural areas and see how public health principles are employed in addressing those challenges.

I will be giving presentations to medical students in the Science of Diabetes and Obesity course in the spring of 2019.

PhD Training programs in Nutritional Sciences in Africa by ANSRC:

The primary goal of the African Nutritional Sciences Consortium (ANSRC) is to develop world class graduate level (PhD) training in laboratory-based biochemistry and nutritional sciences, which will in turn enhance nutritional security and economic capacity in Africa through improved access to quality advanced training and research opportunities. I have also recently been invited to participate in the NIH funded NURTURE project aimed to support junior and mid-career faculty at Makerere University college of Health sciences to sharpen their skills with a goal of becoming independent researchers and research leaders and to enhance research culture at Makerere. I will engage in translational research strategies and establish research collaborations particularly on non-communicable metabolic diseases which are on the rise in Uganda and other African countries. I will develop a curriculum in the regulation of metabolism in health and disease.

PAST AND PRESENT UNIVERSITY SERVICE:

- Served as Acting Assistant Dean of the college of Agricultural and Life sciences (CALs) for student affairs (Spring semester 2000)
- Member of CALs task force for the Acceleration of Internationalization
- Member of CALs Equity and Diversity Committee
- Grant reviewer Hatch competitive funded programs
- Member of International degrees committee
- Serve on 8 departmental committees of Biochemistry and Nutritional Sciences
- Numerous Ph.D., Master degree and preliminary examination committees
- 5 University training programs
- Member of the CALs Curriculum Committee
- Member of Biological Sciences Curriculum planning committee
- Member, CALs Animal Care and Use Committee (ACUC) (1996-1999)
- Chairperson, The Biochemistry Roundtable Discussion Section for the 10th Annual Committee on Institutional Cooperation (CIC) Conference (1997)
- Forum organized by World Bank on funding of international programs (1997)
- Faculty Senator for Department of Biochemistry (1993-1995)
- Chair, Dept. of Nutritional Sciences
- Director, Interdepartmental Graduate Program in Nutritional Sciences
- Faculty Senator for Department of Biochemistry (2015-17)
- Member, Animal Care committee
- Member, International committee.
- Non-Faculty Awards Committee

PROFESSIONAL EXPERIENCE AND SERVICE:

- | | |
|-----------|--|
| 1986 | Visiting Scientist, International Laboratory for Research on Animal Diseases (ILRAD), Nairobi, Kenya |
| 1989-1992 | Member, NIH grant review committee |
| 1990 | Visiting Professor, Department of Biochemistry, Makerere University, Kampala, Uganda |
| 1991-1994 | Consultant, ISTI and USAID's Agency Center for University Cooperation in Development, Washington, DC |
| 1992 | Visiting Professor, Department of Biochemistry, Makerere University, Kampala, Uganda |
| 1993 | Committee Member, National Research Council/National Academy of Sciences Grant Review Panel, Washington, DC |
| 1994 - | Reviewer, <i>Proceedings of the National Academy of Sciences</i>
Reviewer, <i>The Journal of Biological Chemistry</i> |
| 1995 | Member, NIH site visit team, Hunter College, New York, New York |

Grant reviewer for the National Research Council/National Academy of Sciences

Reviewer, *Journal of Lipid Research*

Chairperson, The Biochemistry Roundtable Discussion Section for the 10th Annual Committee on Institutional Cooperation (CIC) Conference, University of Wisconsin-Madison

1996 Reviewer, *Journal of Nutritional Biochemistry*

Reviewer, *Biochim. Biophys. Acta*

1997 - Reviewer, *Journal of Lipid Research*

Reviewer, *Journal of Nutrition*

Grant Reviewer for USDA

1998 - Grant Reviewer for American Heart Association

Member, Editorial Advisory Board of Nutrition: *The International Journal of Applied and Basic Nutritional Sciences*

Member, NIH Site Visit Team, Boston University

2001-2002 Chair, Nutrient and Gene Interactions Interest Research Section International Society of Nutritional Sciences

2001-2004 Member, NIH Physiological Chemistry Study section

2002-2004 Committee member Food and Nutrition Board, Institute of Medicine, National Academy of Sciences

2002-2007 Member of National Institutes of Alcohol and Alcohol Abuse (NIAAA) Board of Scientific Counselors

Member of the Graduate Record Examination (GRE) Biochemistry, Cell and Mol. Biol. Committee of Examiners

2004-2006 Member of MGC NIH Study section

2004 Grant Reviewer for Research Council of Norway

2006 Committee member NIH State of-the-Science Conference on Multivitamin/Mineral Supplements and Chronic Disease

- Member of Cellular Aspects of Diabetes and Obesity (CADO) NIH Study section
- 2006 - Reviewer, *Biochemical Biophysical Research Communications (BBRC)*
- Reviewer, *Cell and Metabolism*
- Reviewer, *Journal of Clinical Investigation*
- Reviewer, *American Journal of physiology Endocrinology and Metabolism*
- Reviewer, *Diabetes Journal*
- Reviewer, *International Journal of Obesity*
- 2007 Co-Chair of the Board of Examiners for the Graduate Record Examination in Biochemistry, Cell and Molecular Biology
- 2008-2010 Member of cellular aspects of Diabetes and obesity (CADO) NIH study section
- Xenobiotic and Nutrient Disposition and Action (XNDA) NIH study section
- Reviewer, Fulbright African Regional Research Program
- 2011 Reviewer, Mouse metabolic Phenotyping Centers Consortium, National Institutes of Health (NIH) study section
- Co-Chair and reviewer of the American Heart Association (AHA) Lipoprotein and Metabolism Basic science -1 grants
- Board member Malaria Institute, Johns Hopkins University School of Public Health, Baltimore MD, USA
- 2011-2017 Reviewer, National Institutes of Health Diabetes, Digestive and kidney diseases (NIH DDK-B) subcommittee
- 2012 Reviewer, *American Institute of Biological Sciences*
- 2012-2018 Member of Institute of Medicine (IOM) Food and Nutrition Board
- Chair, of the American Heart Association Lipoprotein and Metabolism Basic Science-1 grant review panel
- Editorial Board of *Annual Review of Nutrition*
- Member on the International Committee of the American Society for Cell Biology

- 2014-Present Editorial Board of *Journal of Biological Chemistry*
 Editorial Board *BBRC Journal*
- 2014 Thesis defense opponent University of Oslo Norway
- 2015 Thesis defense opponent, University of Southern Denmark
- 2016-Present Grant reviewer for the Florida Department of Health
- 2017-Present Grant reviewer for the Pennsylvania Department of Health
- 2017 Thesis defense opponent, University of Southern Denmark
- 2018 External Research mentor for an NIH-funded NURTURE program of faculty at Makerere University College of Health Sciences, Kampala Uganda
- 2019 Chair, grant review committee, USDA
 Grant Reviewer, National Science Center, Poland (NCN)

MEETINGS ORGANIZED:

- 1999 Organizer of the 27th Steenbock Symposium, on Adipocyte Biology and Hormone Signaling, University of Wisconsin-Madison, Madison, WI
 Organizer and Chair of Federation of American Society for Biochemistry (FASEB) symposium on Lipid Metabolism and Gene Expression, Washington, DC
- 2000 Organizer and Chair of the Federation of American Society for Biochemistry (FASEB) mini symposium on Adipocyte Differentiation, Metabolism and Gene Expression, San Diego, CA
- 2004 One of the organizers of the American Diabetes Association research symposium on Integrative Role of Fatty Acids in Metabolic Regulations for Obesity and Diabetes, Newport, RI
- 2005 Chair of Federation of American Society for Biochemistry (FASEB) session of the metabolic regulatory circuits meeting, San Diego, CA
- 2006 Chair of International Society for the study of fatty acids and lipids session on omega 3 fatty acids, Cairns, Australia
- 2008 Theme Chair of the 2008 American Society for Biochemistry and Molecular Biology (ASBMB) in San Diego, CA
- 2011 Symposium chair ASBMB on enzymes, hormones, and obesity, Washington, DC

- Organizer of the 34th Steenbock Symposium, on Metabolism of lipids: Implications in Human diseases, University of Wisconsin-Madison, Madison, WI
- 2012 Session Chair Frontiers in Lipid Biology Conference, Banff, Canada
- 2013-2018 Member of National Institutes of Alcohol and Alcohol Abuse (NIAAA) Board of Scientific Counselors
- 2015 Session Chair at Gordon Conference on Cellular and Molecular Biology of Lipids Waterville Valley NH
- 2016 Organizer and Chair of the American Society for Biochemistry and Molecular Biology symposium on Lipids and Lipid Signaling, San Diego CA
- 2017 Chaired a session on Global Harmonization of Methodological Approaches to Nutrient Intake recommendations at UN-FAO headquarters in Rome Italy
- 2018 Chaired a session at the African National Sciences Research Consortium (ANSRC), workshop in Nairobi, Kenya,

INVITED SEMINARS AND LECTURES (1993-Present):

- 1993 • Department of Physiology, Michigan State University, East Lansing, MI
 • Department of Biochemistry, Makerere University, Kampala, Uganda
- 1994 • Department of Pharmacology, Makerere University School of Medicine, Kampala, Uganda
 • Department of Nutrition, University of Wisconsin-Madison, Madison, WI
 • Federation of the American society for Biochemistry (FASEB) Meeting, Anaheim, CA
 • 2nd Round Table on Fatty Acids and Cell Signaling, University of Wisconsin-Madison, Madison, WI
- 1995 • Department of Biochemistry and Molecular Biology, Georgetown University School of Medicine, Washington, DC
 • 2nd International Congress of the ISSFAL; International Society for the Study of Fatty Acids and Lipids at NIH, Bethesda, MD
 • Environmental Toxicology Center, University of WI-Madison, Madison, WI
 • Wisconsin Biotechnology Association (WBA) Midwest Regional Biotechnology Conference, Madison, WI
- 1996 • First South African International Symposium on Development, Cell and Molecular Biology, University of Witwatersrand, Johannesburg, South Africa
 • Department of Biochemistry, The University of the North, South Africa
 • Department of Biological Chemistry, Johns Hopkins University School of Medicine, Baltimore, MD
 • National Institute of Diabetes and Digestive and Kidney Diseases (NDDK), Division of Diabetes, Endocrinology, and Metabolic Diseases, Bethesda, MD
 • Department of Anatomy, University of Wisconsin-Madison, Madison, WI

- Department of Medical Biochemistry, University of Oslo, Oslo, Norway
 - Scandinavian Forum for Lipid Research and Technology, Norwegian Academy of Science and Letters, Oslo, Norway
 - Department of Biochemistry and Molecular Biology, Odense University, Odense, Denmark
- 1997 • Department of Biochemistry, University of Wisconsin-Madison, Madison, WI
- 1998 • Division of Nutritional Sciences, Cornell University, Ithaca, NY
- FASEB Meeting San Francisco, CA
 - Invited speaker to the 89th American Oil Chemical Society and Expo, Chicago, IL
 - Department of Nutrition, University of California, Berkeley, CA
 - Division of Gastroenterology, Department of Medicine, University of California, San Francisco, CA
 - Department of molecular and cellular and developmental Biology, University of California, Santa Barbara, CA
- 1999 • Departments of Biochemistry and Animal Sciences, University of Missouri Columbia: The Boyd O'Del lecture
- Skin Biology Research Center, Johnson and Johnson
 - Cardiovascular Disease Section, Turlik Corporation
 - FASEB Meeting, Washington, DC, and also chair of session of Lipid Metabolism and Gene Expression
 - 40th International Conference on the Biochemistry of Lipids, Dijon, France
 - The XXXV annual meeting of The Argentina Society of Biochemical and Molecular Biology, Mendoza City, Argentina
 - International Workshop on Dietary Factors and Cardiovascular Disease, Rome, Italy
 - 27th Steenbock Symposium on Adipocyte Biology and Hormone Signaling, University of Wisconsin-Madison, Madison, WI
- 2000 • FASEB Meeting, San Diego, CA, and also chair of session of Adipocyte Differentiation and Metabolism and Gene Expression
- An International Workshop on Brain Uptake and Utilization of Fatty Acids, Bethesda, MD
 - Department of Biology, San Diego State University, San Diego, CA
 - Xenon Genetics Inc., Vancouver, BC, Canada
 - 51st Harden Conference on Fatty Acid Desaturases: Function and Future. Wye College, Kent, England
 - International Society for the Study of Fatty Acids and Lipids, Tsukuba, Japan
 - Invited participant FASEB Minority Access Research Career Program Tucson, AZ
 - Invited speaker: Canadian Society of Exercise Physiology, (CSEP) Conference University of Calgary, Calgary, Alberta, Canada
 - Invited speaker: An International workshop on Omega 3 Fatty Acids, Diabetes and Cardiovascular Disease, Bethesda, MD
- 2001 • FASEB Meeting, Orlando, FL

- Seminar Dept. of Biochemistry, James Cook University, Townsville, Australia
 - 2nd Messengers and phosphoproteins, Melbourne, Australia
 - Department of Jewish studies, University of Sydney, Australia
 - Millennium Pharmaceuticals Inc, Cambridge, MA
 - Hoffmann-La Roche, Nutley, NJ
 - Gordon Research Conference, Kimball Union Academy, Meriden, NH
 - American Chemical Society symposium on Influence of Food Components on Gene Expression, Chicago, IL
 - 4th International Smolenice Insulin Symposium: Lipids and insulin Resistance, Smolenice Castle, Slovak Republic
 - Department of Nutrition, University of North Carolina, Chapel Hill, NC
 - National Eye Institute, NIH
- 2002
- Department of Chemistry, City College of the City University of New York, NY
 - Department of Medicine, National Jewish Medical and Research Center, Denver, CO
 - Eli Lilly and Company, Indianapolis, IN
 - FASEB Meeting, New Orleans, LA
 - American Oil Chemical Society symposium on Lipid Modulation of Gene Expression, Montreal, Canada
 - 15th International Symposium on Plant Lipids, Okazaki, Japan
 - Kern Conference Aspen, CO
 - 53rd EAAP conference, Cairo, Egypt
 - Department of Nutrition, Columbia University, New York, NY
 - External Examiner for Vern Dolinsky's Ph.D. thesis Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada
 - Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada
- 2003
- Department of Nutrition, The Pennsylvania State University, PA
 - Federation of American Society for Experimental Biology (FASEB) Meeting, San Diego, CA
 - Gordon Research Conference, Kimball Union Academy, Meriden, NH
 - Federation of American Society for Experimental Biology (FASEB) Summer Conference (Intestinal Lipid transport), Snowmass, CO
 - Federation of American Society for Experimental Biology (FASEB) Summer Conference (Nutrient Gene Expression), Snowmass, CO
 - Arteriosclerosis, Thrombosis and Vascular Biology Conference, Washington, DC
 - Department of Nutrition, University of Wisconsin-Madison, Madison, WI
 - Department of Human Nutrition, University of Florida, Gainesville, FL
 - Department of Biology, San Diego State University, San Diego, CA
 - Department of Biological Chemistry, Johns Hopkins University School of Medicine, Baltimore, MD
 - Departments of Physiology and Internal Medicine, Touchstone Center for Diabetes Research, UT Southwestern Medical Center, Dallas, TX
 - Pfizer Discovery Technology Center, Cambridge, MA
 - Diabetes and Metabolism, Novartis Institutes for Biomedical Research,

- Cambridge, MA
 - SPRL, Cambridge, MA
- 2004
- Case Western Reserve University, Department of Nutrition, Cleveland, OH
 - American Diabetes Association Symposium, Newport, RI
 - American Diabetes Association meeting, Orlando, FL
 - International Society for the Study of Fatty Acids and Lipids (ISSFAL) meeting, Brighton, England
 - Pfizer Discovery Technology Center, Cambridge, MA
 - Department of Food Science and Nutrition, University of Minnesota, St Paul, MN
 - Saturated Fatty Acids Revisited International Seminar, Uppsala, Sweden
 - Third Throne Holst Symposium on Nutrition "Overweight and Nutrition," Oslo, Norway
 - NAASO 2004 Scientific Meeting, Las Vegas, NV
 - Department of Nutrition and Toxicology, UC-Berkeley, Berkeley, CA
 - Food summit meeting "Diet and Metabolic Syndrome," Wageningen, The Netherlands
- 2005
- Department of Biochemistry, Makerere University, Kampala, Uganda
 - Clinical Research Institute of Montreal (IRCM), Montreal, Canada
 - Velma Hamilton Middle School, Madison, WI
 - Tri-Beta--Omega Pi Chapter Biological Honor Society, University of Wisconsin-Madison, Madison, WI
 - Department of Food Science and Human Nutrition, Univ. of Illinois at Urbana-Champaign, Champaign, IL
 - Sarah W. Stedman Nutrition and Metabolism Center Departments of Pharmacology and Cancer Biology, Biochemistry, and Medicine, Duke University Medical Center
 - Division of Metabolism Endocrinology and Diabetes, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
 - The Wenner-Gren Institute, The Arrhenius Laboratories F3 Stockholm University, Stockholm, Sweden
 - External Examiner for Andreas Jakobsson's Ph.D. Thesis, The Arrhenius Laboratories F3 Stockholm University, Stockholm, Sweden
 - Astra Zeneca, Gotteborg, Sweden
 - FASEB Meeting, San Diego, CA, and also chair of Session of Metabolic Regulatory Circuits meeting
 - Diabetes and Metabolism, Novartis Institutes for Biomedical Research, Cambridge, MA
 - Xenon Pharmaceuticals, Vancouver, Canada
 - Summit SCD1 Inhibitor for the Treatment of Obesity Diabetes and Metabolism Novartis
 - Institutes for Biomedical Research, Cambridge, MA
 - American Oil Chemical Society (AOCS) Annual Meeting, Salt Lake City, UT
 - Pfizer Discovery Technology Center, Cambridge, MA
 - Department of Food Science & Technology, Makerere University, Kampala, Uganda
 - Ph.D. Summer School, University of Southern Denmark, Nyborg, Denmark

- International Congress of Nutrition, Durban, South Africa
 - Department of Medicine and of Physiology, University of Manitoba, Winnipeg, Manitoba, Canada
 - Division of Endocrinology, Diabetes, and Metabolism, University of Pennsylvania School of Medicine, Philadelphia, PA
- 2006
- Institute of Public Health Makerere University Kampala, Uganda
 - International Society for the Study of Fatty Acids and Lipids (ISSFAL) meeting, Cairns, Australia
 - Dept. of Biochemistry, University of Sydney, Sydney, Australia
 - Federation of American Society for Experimental Biology (FASEB) Summer Conference (AMPK: Impact on Mammalian metabolism and disease), Snowmass, CO
 - Pfizer Discovery Technology Center, Groton, CT
 - Department of biochemistry, University of Montreal, Montreal, Canada
 - NIH/NIHAAA Bethesda, MD
 - Hoffman-La Roche, Nutley, NJ
 - CV Therapeutics, Palo Alto, CA
- 2007
- Deuel Conference on Lipids, Borrego Springs, CA
 - Forest Research Laboratories, Jersey City, NJ
 - University of Washington School of Medicine St Louis, MO
 - Uganda North American Medical Society Conference, Atlanta, GA
 - Endocrinology Society Meeting Toronto, Canada
 - Wake Forest University School of Medicine, Winston-Salem, NC
 - University of Wisconsin La Crosse, La Crosse, WI
 - Gordon Research Conference Waterville Valley, NH
 - Keynote speaker at the Short-Term Education Program for Under Represented Persons, NIDDK/NIH
 - Community-based Workshop on Nutrition, Lyantonde, Uganda
 - Disorders of Lipid Metabolism Symposium San Diego, CA
 - Eli Lilly and Company, Indianapolis, IN
 - Morehouse School of Medicine Atlanta, GA
 - Rutgers University New Brunswick, NJ
 - Schering-Plough Research Institute Brunswick, NJ
- 2008:
- FASEB Meeting, San Diego, CA, and also chair of Session of Metabolic Regulatory Circuits meeting
 - Smith-Kline Omega-3 Fatty Acids Scientific Advisory Board Meeting Philadelphia, PA
 - Community-based Workshop on Nutrition, Lyantonde, Uganda
 - School of Public Health Makerere University, Kampala, Uganda
 - Nkumba University, Uganda
 - Community-based Workshop on Nutrition, Kiruhura Uganda
 - Federation of American Society for Experimental Biology (FASEB) Summer Conference in Carefree, AZ
 - City-wide morning rounds at the University of Toronto, Toronto Canada
 - USAID, African Regional Higher Education Summit, Kigali, Rwanda

- Glenmark Pharmaceuticals, Mumbai, India
- 2009
- NIH Bethesda, MD
 - Department of Animal Science Texas A&M University, College Station, TX
 - Program in Molecular Medicine University of Massachusetts Medical School, Worcester, MA
 - 2009 International Food Technology (IFT) Annual meeting and Food Expo, Anaheim, CA
 - Summer symposium in Nutrition, Genes and Physical Activity Penn State, State College, PA
 - Makerere University School of Public Health, Kampala, Uganda
 - Pennington Biomedical Research Center Louisiana State University, Baton Rouge, LA
 - Harvard School of Public Health, Boston, MA
- 2010:
- Keystone Symposium, Big Sky, MT
 - 5th International Barth Syndrome conference, Orlando, FL
 - Uganda National Academy of Sciences inauguration, Kampala Uganda
 - LEM symposium Johns Hopkins University School of Medicine, Baltimore, MD
 - Department of Biochemistry and Molecular Biology, Johns Hopkins School of Public Health, Baltimore, MD
 - OMICS symposium, University of Maryland College Park, MD
- 2011
- Department of Biological Chemistry Johns Hopkins University School of Medicine, Baltimore, MD
 - McArdle Laboratory for Cancer Research, University of Wisconsin-Madison, WI
 - North Carolina A&T State University, Greensboro, NC
 - Department of Nutritional sciences, University of Wisconsin-Madison, Madison, WI
 - FASEB Meeting, Washington DC, and also chair of Session on Enzymes, Hormones and obesity. One of my students participated in the ASBMB undergraduate student research poster competition
 - The role of basic research in global health education and training
 - 34th Steenbock Symposium, University of Wisconsin-Madison, Madison, WI
 - Fudan University Shanghai medical College, Shanghai, China
 - ASN-ASAS-ADSA preconference, New Orleans, LA
 - Center For African Action, Inc., Milwaukee, WI
 - ICBL, Warsaw, Poland
 - Merck Program, University of Minnesota, MN
 - Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota, MN
 - Division of Endocrinology, Metabolism and Clinical Nutrition Medical College of Wisconsin, Milwaukee, WI
 - Merck Program, Brookfield, WI
 - International Symposium at ABRC, Academia Sinica, Taipei Taiwan
 - Department of Human Nutrition, Ohio State University, Columbus, Ohio
 - CFSA/ANDP Joint Meeting Presentations Penn State, College Station, PA
 - Merck Program, Orlando, FL

- Sanford Burnham, Medical Research Institute, Orlando, FL
- 2012
- Africa Nutritional Sciences Research Consortium, Nairobi, Kenya
 - Colorado State University, Fort Collins, CO
 - University of Kentucky, Lexington, KY
 - International Society for the study of fatty acids and Lipids (ISSFAL) Vancouver BC, Canada
 - Institute of Food Technology (IFT), Las Vegas, NV
 - Advanced Summer School for Biochemistry and Molecular Biology, Shanghai, China
 - Merck Program, Denver, CO
 - University of Colorado School of Medicine, Denver, CO
 - FASEB conference, Snowmass, CO
 - Frontiers in Lipid Biology Conference, Banff, Canada
- Mini Med School on Weight Management, Diabetes and Obesity symposium, University of Wisconsin-Madison School of Medicine and Public Health, WI
 - Eastern Virginia Medical School, Norfolk, VA
 - Merck Program, Norfolk, VA
 - Department of Pharmacology, University of Virginia, Charlottesville, VA
 - Division of Endocrinology and Metabolism, University of Wisconsin-School of Medicine and Public Health, Madison, WI
 - Skin Biology Research Center, Johnson and Johnson, NJ
- 2013
- Africa Nutritional Sciences Research Consortium, Nairobi, Kenya
 - Federation of American Society for Experimental Biology (FASEB), Boston, MA
 - Oregon Rotary Club, Oregon, WI
 - Gordon Research Conference, Waterville Valley, NH
 - Africa Nutritional Sciences Research Consortium, Arusha, Tanzania
 - Yale University School of Medicine Section of Comparative Medicine, New Haven, CT
 - Texas Tech University Lubbock, TX
 - Science & Medicine Graduate Research Scholars program
 - Washington University School of Medicine St. Louis, MO
 - International Conference on the Bioscience of Lipids, Banff, Canada
- 2014
- Africa Nutritional Sciences Research Consortium, Kampala, Uganda
 - Uganda Bureau of Standards, Kampala, Uganda
 - Chaos and Complex Systems Seminar series, University of Wisconsin-Madison, WI
 - Virginia Commonwealth University Richmond, VA
 - FASEB, San Diego, CA
 - American Oil Chemical Society (AOCS), San Antonio, TX
 - International Conference on the Bioscience of Lipids, Aberdeen, Scotland
 - FASEB, Saxtons River, VT
 - Rubaga Club, Kampala, Uganda
 - Department of Nutritional Sciences Penn State University PA USA
- 2015
- Dept. of Medicine University of Wisconsin-Madison

- University of Illinois at Urbana-Champaign
 - Johns Hopkins University School of Medicine Baltimore MD
 - University of Wisconsin-Madison Dept. of Pediatrics
 - Gordon Research Conference, Waterville Valley, NH
 - Kampala Senior Club, Kampala Uganda
 - Infectious Disease Institute (IDI) Kampala Uganda
 - Danish Diabetes Academy Odense Denmark
 - Morgridge Institute, University of Wisconsin-Madison
 - Department of Genetics, University of Wisconsin-Madison
 - Argentina Society for Research in Biochemistry and Molecular Biology (SAIB) Mar Del Plata Argentina
 - Department of Animal Sciences, University of Wisconsin-Madison
 - College of Agricultural and Life Sciences, University of Wisconsin-Madison
- 2016
- ASBMB meeting in San Diego CA
 - Nutrition and Obesity Research Center (NORC) University of Alabama Birmingham (UAB), Birmingham AL
 - University of Nebraska Lincoln, NE
 - Department of Biochemistry UW-Madison
 - Georgia State University, Atlanta GA
 - Rutgers University NJ
- 2017
- Keystone Symposium on Molecular and cellular Biology, Tahoe CA
 - ASBMB meeting in Chicago IL
 - Johns Hopkins University School of Medicine, Baltimore MD
 - University of Southern Denmark, Odense Denmark
 - Global Harmonization of Methodological Approaches to Nutrient Intake Recommendations, Rome Italy
 - Weill Cornell Medical College, New York NY
- 2018
- Kampala Senior Club, Kampala Uganda
 - The Nook Club, Kampala Uganda
 - Uganda National Academy of Sciences
 - Department of Biochemistry Makerere University, Kampala Uganda
 - The Nencki Institute of Experimental Biology, Warsaw Poland
 - The BioHouse, UW-Madison Residential Learning Community
- 2019
- ASBMB meeting in Orlando FL
 - Buganda Bumu North America Convention, Washington DC
 - University of Wisconsin School of Medicine and Public Health Division of Diabetes and Endocrinology
- 2020 COVID
- 2021
- Diabetes Obesity and Metabolism Institute Icahn School of Medicine at Mount Sinai
 - Mayo Clinic College of Medicine
- 2023
- Department of Biochemistry and Molecular Biology Virginia Commonwealth School of Medicine

SOCIETY MEMBERSHIPS:

- Uganda National Academy of Sciences
- American Society for Biochemistry and Molecular Biology (ASBMB)
- American Institute of Nutrition
- American Diabetes Association
- American Heart Association
- New York Academy of Sciences
- International Society for the study of fatty acids and lipids (ISSFAL)
- American Society for Cell Biology