4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

<b>EDUCATION:</b> 1980 – 1987:	Addis Ababa University Medical Faculty, Addis Ababa, Ethiopia. Graduated with MD
1989 - 1992:	Residency in internal medicine, Addis Ababa University, Medical Faculty, Addis Ababa, Ethiopia. Graduated with Specialty Certificate in Internal Medicine.
2001 - 2003:	Residency in internal medicine in New York Methodist hospital. Brooklyn, New York.
2003 - 2006:	Endocrinology fellowship, Division of Endocrinology, Diabetes and metabolism, Wayne State University School of Medicine, Detroit, Michigan.
2004 - 2007:	Masters program in Public Health, Community Medicine, Wayne State University School of Medicine, Detroit, Michigan.
2004 - 2008:	Diploma in Coptic Orthodox Theology, Coptic Orthodox Theological College, Sydney, Australia
2015 - 2017:	Diploma in Christian counseling, Family Ministry Program, Coptic Orthodox Diocese of the Southern United States, Titusville, Florida
ACADEMIC APP 1992 - 1999:	OINTMENTS & WORK: Assistant Professor of Medicine, Department of Internal Medicine, Faculty of Medicine, Addis Ababa University, Addis Ababa, Ethiopia.
1996 - 1999:	Head of Endocrine/Diabetes Division, Department of Internal Medicine, Faculty of Medicine, Addis Ababa University, Addis Ababa, Ethiopia
2006 - 2012:	Assistant Professor of Medicine, Division of Endocrinology, Department of Internal Medicine, Wayne State University School of Medicine
2013 - 2020:	Interim Chief, Division of Endocrinology, Wayne State University School of Medicine
2006 -	Supervisor of the continuity clinics of trainees in clinical endocrinology,

4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

### **CURICULUM VITAE**

**present:** diabetes and metabolic diseases,

Wayne State University, Detroit, MI

**2010 -** Medical Director, Diabetes programs

**Present:** 

**2013 - 2020:** Associate Professor of Medicine, Division of Endocrinology, Department of

Internal Medicine, Wayne State University School of Medicine

**2021 -** Professor of Medicine, Division of Endocrinology, Department of Internal

**Present:** Medicine, Wayne State University School of Medicine

**2014 –** Course director for the yearly update in endocrinology, diabetes and

**present:** metabolism symposium

**2018 –** Member University Senate

present:

### **OTHER EXPRIENCE:**

**1987 - 1989:** General practitioner at Jima hospital and assisting in teaching medical students

and nurses at the Jima Institute of Health Sciences, Jima, South Western

Ethiopia.

**1999 - 2001:** Research fellow at the Colorado Prevention Center, affiliated with the

University of Colorado Health Sciences Center, Denver Colorado.

#### LICENSURE AND BOARD CERTIFICATION:

**2005** - **2017**: Internal Medicine board certified.

**2007 - 2029:** Endocrinology board certified.

#### I. SERVICE

#### A. Wayne State University

1. Departmental/Divisional

- 2013 2020: Interim chief for the Division of Endocrinology.
- 2010 present: Medical Director for diabetes programs
- 2. School of Medicine
  - 2016 2017: Internal review committee member for department of Ophthalmology

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http://endocrinology.med.wayne.edu/profile.php?id=41911

- 3. University
  - 2014 2016: Member of the medical/pediatric (MP2) Institutional Review Board
  - 2018 present: Member University Senate
- B. Affiliate medical organizations (e.g., DMC, Karmanos, VA, Oakwood, Crittenton) 2010 2018: Leading the DRH glycemic control tram its main goal was to achieve a better control of blood sugar among inpatients with a goal of achieving a good blood sugar control for over 90% of the time and to get the Inpatient Diabetes certification from JACHO/ADA.
  - 2010 Present: Help in handling emergency consults and responding to e-consults for the VA endocrinology service when the VA endocrinologist is not available or if additional help is needed.
  - 2014 present: Member of the Glycemic task force for DMC. Discusses and decides on policy issues in the management of diabetes and also decides on formulary drugs for diabetes. It Meets every month.
- Professional (e.g., medical or scientific organizations and societies)
   2013 2016: Member of the international committee for the American Association of Clinical Endocrinologists.
  - 2013 2016: Member of the health care disparities committee for the American Association of Clinical Endocrinologists.
  - 2013 2016: vice chair of the committee that organize teaching sessions for the endocrine chapter meetings. The chapter includes all endocrinologists in Detroit metro area and its vicinity. Organizes yearly meetings.
  - 2016 present: Member of the organizing committee for the Endocrine club. The club is group of endocrinologists in the Detroit metro area. The committee organizes educational programs every three months.
- D. Other Service
  - 2015 2016: Abstract reviewed for the Endocrine society
  - 2016 2017: Abstract reviewed for the Endocrine society
  - 2017 present: Abstract reviewer for the ACP conference in Michigan

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#### **CURICULUM VITAE**

**E. Community** (e.g., presentations for lay audiences, educational outreach, media presentations/interviews)

1989 - 1999: Chairman, Children of Light Welfare Association. The association helps poor and destitute elderly people. In addition to the administrative works I was also giving free medical service to the needy elderly

people.

1995 - 1999: Chairman, Ethiopian Diabetes Association.

2005 - 2007: Board member for the "Yes we Can Can Can" organization. This organization is non-governmental organization that helps patients with diabetes by arranging teaching sessions, seminars and advocacy work.

2003 - Present: Member and external relations' officer of the executive committee of the Eritrean National Diabetes Association. Helped the association to keep its membership of the International Diabetes Federation. With my contribution the association was able to get external funding and conduct some epidemiological studies. Part of the work has been published. The report was the first of its kind in the country.

2004 - Present: Chairman educational committee of the Eritrean Orthodox Church in North America. The committee organizes and teaches Orthodox Christianity. Additionally, the committee organizes educational seminars about youth discipline, marriage and family issues in the Eritrean churches. I was the only deacon that has a theology degree thus was elected by the church fathers to lead the educational committee of the church.

- 2004 Present: Board member for the Association of Eritreans and their Friends in Michigan (AEFM). A non-governmental organization that helps students and diabetic patients in Eritrea in terms of material and other helps.
- 2013 Present: Secretary of the Board for the Association of Eritreans and their Friends in Michigan (AEFM). A non-governmental organization that helps students and diabetic patients in Eritrea in terms of material and other helps.

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### **CURICULUM VITAE**

2016 - present: Member of the executive committee of the Eritrean Orthodox Church – Diocese of North America. The diocese is the highest body of the Eritrean Orthodox church.

#### NATIONAL PROFESSIONAL COMMITTEE MEMBERSHIP

#### 1. National committees

- 2013 2014: Represented the AACE Michigan chapter to lobby Congress to vote for HR 1054 and repeal SGR.
- 2013 2015: Represented WSU in Beacon community working in the clinical transformation committee. The Beacon community is a federally funded organization trying to reach all patients with diabetes using patient navigators to have a better blood sugar control.
- 2014 2018: Chairman, Society of Eritrean medical professionals in North America (SEMPiNA). This is a professional organization of Eritreans with medical profession in the USA.

#### 2. State and local boards and committees

- 2006 2011: Vice chairman of the research and data sub-committee of DPAC (Diabetes Partners in Action Coalition). DPAC is a non-profit organization with a mission to provide statewide leadership to prevent and control diabetes and reduce its impact in Michigan. We have monthly meetings and two whole day meetings in a year.
- 2011 2013: Chairman for the Data, Research and Evaluation committee for DEPAC (DRaE). This is one of the main committees of DEPAC which focuses on diabetes data and research in Michigan. We had monthly meetings and two whole day meetings in a year.
- 2011 Present: Member of the DPAC Board. DPAC is a non-profit organization with a mission to provide statewide leadership to prevent and control diabetes and reduce its impact in Michigan. We have monthly meetings and two whole day meetings in a year.

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### **CURICULUM VITAE**

#### **PROFESSIONAL MEMBERSHIPS:**

1995 - 2005: Member of the executive committee of the Pan African Diabetes Study Group.

1996 - Present: Member of the International Diabetes Federation

1996 - Present: Member of the European Association for the study of diabetes.

1998 - 2002: Assistant editor, Pan African Diabetes Study Group Journal.

1998 - 2001: Research Director, Pan African Diabetes Study Group

2003 - Present: Member of the American Association of Clinical Endocrinologists

2005 - Present: Member of the American Diabetes Association

2005 - Present: Member of the National Lipid Association

2005 - Present: Member the Endocrine Society.

2007 - Present: Detroit Medical Society

#### **AWARDS:**

- Third world Medical Foundation award for Excellence in Research. Received on May 22, 1993 on the occasion of the 29th annual conference of the Ethiopian Medical Association.
- Ethiopian Science and Technology Commission award, for a research on Type 2 diabetic patients with secondary failure to Sulfonylureas, awarded in 1995.
- Eli Lilly foot amputation prevention program award. Given for a research on Identification of high-risk foot in diabetic patients in developing countries, awarded in 1997.
- Ethiopian Science and Technology Commission award, for a research on the study of microorganism flora in diabetic patients with periodontal diseases, awarded in 1997.
- International Diabetes Federation Educational award, for clinical research on hypertension and Diabetes mellitus, awarded in 1999.
- Precetorship award from Endocrine Foundation for training in advanced lipidology at Duke University, May 1-15, 2005.
- Dr. Jack Ryan Award to study adipose tissue of obese diabetic and non-diabetic individuals. February 28, 2014.
- Wayne State University School of Medicine's Collage Teaching Award 2015

### **PUBLICATIONS:**

4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

### **CURICULUM VITAE**

#### 1. Original articles:

- 1. Hodes RM, **Seyoum B**. The pattern of tuberculosis in Addis Ababa, Ethiopia. *East African Medical Journal 1989; 66:812-18*. PMID: 2612412
- 2. **Seyoum B**, Amaro JC. Bronchial Asthma in Jima: a prospective analysis of 204 patients. *Ethiopian Medical Journal 1992; 30:225-32*. PMID: 1459122
- 3. **Seyoum B**, Abdulkadir J, Kumssa A. One day at the diabetic clinic; diminishing time supply for complex health care needs and a growing patient load. *International Diabetes Digest 1996; 7:35-38.*
- 4. **Seyoum B**, Abdulkadir J. Systemic inspection of insulin injection sites for local complications related to incorrect injection technique. *Tropical Doctor 1996; 26:159-61.* PMID: 8937229
- 5. Wolday D, **Seyoum B**. Pleural empyema due to *Salmonella paratyphi* in a patient with AIDS. *Tropical Medicine and International Health 1997; 2:1140-42.* PMID: 9438469
- 6. **Seyoum B**. Impotence in Ethiopian diabetic men. *East African Medical Journal 1998;* 75:208-10. PMID: 9745835
- 7. **Seyoum B**, Gebregziabher F, Abdulkadir J, Alemayehu B. The occurrence of Diabetic Ketoacidosis in Tikur Anbessa Hospital, Ethiopia. *International Diabetes Digest* 1998; 9:38-39.
- 8. **Seyoum B**, Abdulkadir J, Feleke Y, Worku Y. Insulin storage by diabetic patients in Ethiopia. *International Diabetes Digest* 1998; 9:43-44.
- 9. **Seyoum B**, Abdulkadir J. Randomized clinical trial of insulin alone or insulin incombination with sulphonylureas in the treatment of NIDDM patients with secondary failure to sulphonylureas. *Ethiopian Medical Journal 1998; 7:11-17.*
- 10. **Seyoum B**, Abdulkadir J, Gebregziabher F, Alemayehu B. Analysis of diabetic patients admitted to Tikur Anbessa hospital over 8 years. *Ethiopian Journal for Health Development 1999; 13:9-13.*

4201 St. Antoine, UHC-4H Detroit, MI 48201

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E-mail: <u>Bseyoum@med.wayne.edu</u>

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- 11. **Seyoum B**, Abdulkadir J, Berhanu P, Feleke Y, Worku Y, Ayana G. Profile of coronary risk factors in Ethiopian diabetic patients. *East African Medical Journal* 1999;76:105-7. PMID: 10442133
- 12. **Seyoum B**, Kiros K, Haileselasie T, Leole A. Prevalence of gestational diabetes mellitus in rural pregnant mothers in northern Ethiopia. *Diabetes Research and Clinical Practice* 1999;46:247-51. PMID: 10624791
- 13. **Seyoum B**, Mengistu Z, Berhanu P, Abdulkadir J, Feleke Y, Worku Y, Ayana G. Retinopathy in patients of Tikur Anbessa Hospital diabetic clinic. *Ethiopian Medical journal 2001;39:123-31*. PMID: 11501289
- 14. Teshome T, **Seyoum B**. Graves' thyroid Ophthalmopathy in Ethiopian patients. *Ethiopian Medical Journal 2001;39:1-8.* PMID: 11338463
- 15. **Seyoum B**, Abdulkadir J, Berhanu P, Feleke Y, Mengistu Z, Worku Y, Ayana G. Analysis of serum lipids and lipoproteins in Ethiopian diabetic patients. *Ethiopian Medical journal 2003;41:1-8.* PMID: 12764995
- 16. **Seyoum B**, Berhanu P. Profile of diabetic ketoacidosis in a predominantly African American urban patient population. *Endo trends 2006;5:6.*
- 17. Siraj ES, **Seyoum B**, Saenz C, Abdulkadir A. Lipid and lipoprotein profiles in Ethiopian patients with diabetes mellitus. *Metabolism*, 2006;55:706-10. PMID: 16713427
- 18. **Seyoum B**, Estacio RO, Berhanu P, Shrier RW. Exercise capacity is a predictor of cardiovascular events in patients with type 2 diabetes mellitus. *Journal of diabetes and vascular research*, 2006;3:197-201. PMID: 17160916
- 19. **Seyoum B**, Berhanu P. Profile of diabetic ketoacidosis in a predominantly African American urban patient population. *Ethnicity and disease*, 2007;17:234-237. PMID: 17682351
- 20. Mamdani N, Repp AL, **Seyoum B**, Berhanu P. Idiopathic hypoparathyroidism presenting with severe hypocalcemia and asymptomatic basal ganglia calcification followed by acute intracerebral bleed. *Endocrine Practice*, 2007;13:487-92. PMID: 17872351

4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

- 21. **Seyoum B**, Siraj ES, Saenz C, Abdulkadir A. Hypomagnesemia in Ethiopians with Diabetes Mellitus. *Ethnicity and Disease Journal*, 2008;18:147-51. PMID: 18507265
- **Seyoum B**, Siraj ES, Saenz C, Abdulkadir J. Low levels of magnesium place diabetics at increased risk. *Ethn Dis. 2008;18:238*. PMID: 18509935
- 23. **Seyoum B**, Mebrahtu G, Usman A, Mufunda J, Tewolde B, Haile S, Kosia A, Negassi E. Profile of patients with diabetes in Eritrea: results of first phase registry analyses. *Acta Diabetologica 2010;47: 23-27.* PMID: 19183840
- 24. Zambare S, Samantray J, **Seyoum B**, Abou-Samra AB. Glucose and lipid metabolism in African American patients with type 2 diabetes and chronic hepatitis C viral infection. *Endocr Pract.* 2011;17:363-368. PMID: 21134881
- 25. **Seyoum B**. Sitagliptin and metformin novel combination therapy. *Expert Opin Pharmacother*. *2011;12:6*. PMID: 21291346
- 26. **Seyoum B**, Fite A, Abou-Samra AB. Effects of 3T3 adipocytes on interleukin-6 expression and insulin signaling in L6 skeletal muscle cells. *Biochemical and Biophysical Research Communications*. 2011;410:13-18. PMID: 21640704
- 27. **Seyoum B**, Fite A, Abou-Samra AB. Sitagliptin suppresses active ghrelin in patients with diabetes. *J Diabetes Metabolism. 2011;2:157-161.*
- 28. Araia M, Wood M, Kroll J, Abou-Samra A, **Seyoum B**. Resolution of Diabetes After Bariatric Surgery Among Predominantly African-American Patients: Race has no Effect in Remission of Diabetes After Bariatric Surgery. *Obesity Surgery 2014;24:835-40*. PMID: 24442424
- 29. Caruso M, Ma D, Msallaty Z, Lewis M, **Seyoum B**, Al-Janabi W, Diamond M, Abou-Samra AB, Højlund K, Tagett R, Draghici S, Zhang X, Horowitz JF, Yi Z. Increased Interaction with Insulin Receptor Substrate-1, a Novel Abnormality in Insulin Resistance and Type 2 Diabetes. *Diabetes.* 2014;63:1933-47. PMID: 24584551
- 30. Fu Z, Berhane F, Fite A, **Seyoum B**, Abou-Samra AB, Zhang R. Elevated circulating lipasin/betatrophin in human type 2 diabetes and obesity. *Scientific Reports* 2014;4:5013. PMID: 24852694.

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E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

- 31. Fite A, Abou-Samra AB, **Seyoum B**. Macrophages Inhibit Insulin Signaling in Adipocytes: Role of Inducible Nitric Oxide (NO) Synthase (iNOS) and NO. *Canadian Journal of Diabetes 2015; 39:36-43*. PMID: 25179174.
- 32. Berhane F, Fite A, Daboul N, Al-Janabi A, Msallaty Z, Caruso M, Lewis MK, Yi Z, Diamond MP, Abou-Samra AB, **Seyoum B**. Plasma Lactate levels increase during hperinsulinemic euglycemic clamp and oral glucose tolerance test. *Journal of diabetes research 2015; Vol 2015, article ID 102054:* PMID: 25961050
- 33. Araia A, Roxas R, Abou-Samra AB, **Seyoum B**. Prevalence of Diabetes in an Urban Hospital Emergency Room Serving Predominantly Endogenous Population. *Journal of the National Medical Association 2015; 107: 11-16.* PMID: *27282523*
- 34. Mishra M, Lillvis J, **Seyoum B**, Kowluru RA. Peripheral Blood Mitochondrial DNA Damage as a Potential Noninvasive Biomarker of Diabetic Retinopathy. *Invest Ophthalmol Vis Sci. 2016; 57: 4035-44*. PMID: *27494345*
- 35. Muzik O, Burghardt P, Yi Z, Kumar A, **Seyoum B**. Successful metformin treatment of insulin resistance is associated with down-regulation of the kynurenine pathway. *Biochem Biophys Res Commun. 2017;488:29-32.* PMID: *28478038*
- 36. Holman RR, Bethel MA, Mentz RJ, Thompson VP, Lokhnygina Y, Buse JB, Chan JC, Choi J, Gustavson SM, Iqbal N, Maggioni AP, Marso SP, Öhman P, Pagidipati NJ, Poulter N, Ramachandran A, Zinman B, Hernandez AF; **Seyoum B** EXSCEL Study Group. Effects of Once-Weekly Exenatide on Cardiovascular Outcomes in Type 2 Diabetes. *N Engl J Med. 2017;377:1228-1239*. PMID: 28910237
- 37. Burghardt KJ, **Seyoum B**, Mallisho A, Burghardt PR, Kowluru RA, Yi Z. Atypical antipsychotics, insulin resistance and weight; a meta-analysis of healthy volunteer studies. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018;83:55-63. PMID:29325867
- 38. Burghardt KJ, **Seyoum B**, Dass S, Sanders E, Mallisho A, Yi Z. Association of Protein Kinase B (AKT) DNA Hypermethylation with Maintenance Atypical Antipsychotic Treatment in Patients with Bipolar Disorder. *Pharmacotherapy.* 2018;38:428-43. PMID: 29484683
- 39. Gupta D, Sarwan Kumar S, **Seyoum B**. Blister-Packed Levothyroxine Sodium or Bottle-Packed Levothyroxine Sodium. *Journal of basic and clinical physiology and pharmacology.* 2018;29:309-311.
  PMID: 29949511

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E-mail: <u>Bseyoum@med.wayne.edu</u>

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- 40. Gao N, Lee P, Liang Q, **Seyoum B**, Yu XF. Opposing Effects of IL-1Ra and IL-36Ra on innate immune response to Pseudomonas aeruginosa infection in C57BL/6 Mouse Corneas. *Journal of Immunology 2018 Jul 15;201:688-699*. PMID: 29891552
- 41. Burghardt KJ, Ward KM, Sanders EJ, Howlett BH, **Seyoum B**, Yi Z. Atypical Antipsychotics and the Human Skeletal Muscle Lipidome. Metabolites 2018;8:64. PMID: 30322152
- 42. Burghardt KJ, Howlett BH, Sanders E, Dass SE, Msallaty Z, Mallisho A, **Seyoum B**, Yi Z. Skeletal muscle DNA methylation modifications and psychopharmacologic treatment in bipolar disorder. *Eur Neuropsychopharmacol. 2019;12:1365.* PMID: 31635791
- 43. Duraisamy AJ, Radhakrishnan R, **Seyoum B**, Abrams GW, Kowluru RA. Epigenetic Modifications in Peripheral Blood as Potential Noninvasive Biomarker of Diabetic Retinopathy. Transl Vis Sci Technol. 2019;8:43. PMID:31871829
- 44. Li H, O'Meara M, Zhang X, Zhang K, **Seyoum B**, Yi Z, Kaufman RJ, Monks TJ, Wang JM. Ameliorating Methylglyoxal-Induced Progenitor Cell Dysfunction for Tissue Repair in Diabetes. Diabetes. 2019;68:1287-1302. PMID: 30885990.
- 45. Burghardt KJ, Khoury AS, Msallaty Z, Yi Z, **Seyoum B**. Antipsychotic Medications and DNA Methylation in Schizophrenia and Bipolar Disor der: A Systematic Review. Pharmacotherapy. 2020;40:331-342. PMID: 32058614
- Qi Y, Zhang X, Seyoum B, Msallaty Z, Mallisho A, Caruso M, Damacharla D, Ma D, Al-Janabi W, Tagett R, Alharbi M, Calme G, Mestareehi A, Draghici S, Abou-Samra A, Kowluru A, Yi Z.
  Kinome Profiling Reveals Abnormal Activity of Kinases in Skeletal Muscle FromAdul tsWith Obesity and Insulin Resistance. J Clin Endocrinol Metab. 2020;105:644-659. PMID:31652310
- 47. Lohia P, Kapur S, Benjaram S, Pandey A, Mir T, **Seyoum B**. Metabolic syndrome and clinical outcomes in patients infected with COVID-19: Does age, sex, and race of the patient with metabolic syndrome matter? J Diabetes. 2021 Jan 16. doi: 10.1111/1753-0407.13157. Online ahead of print. PMID: 33453090
- 48. Lohia P, Kapur S, Patel P, **Seyoum B.** Letter to the editor: Vitamin D levels in acute illness and clinical severity in COVID-19 patients. Respir Res. 2021;22(1):102. doi: 10.1186/s12931-021-01703-1. PMID: 33832495

4201 St. Antoine, UHC-4H Detroit, MI 48201

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E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

### **CURICULUM VITAE**

- 49. Mestareehi A, Zhang X, Seyoum B, Msallaty Z, Mallisho A, Burghardt KJ, Kowluru A, Yi Z. Metformin Increases Protein Phosphatase 2A Activity in Primary Human Skeletal Muscle Cells Derived from Lean Healthy Participants. J Diabetes Res. 2021:9979234. doi:10.1155/2021/9979234. eCollection 2021. PMID: 34368369
- 50. Demeterco-Berggren C, Ebekozien O, Rompicherla S, Jacobsen L, Accacha S, Gallagher MP, Alonso GT, **Seyoum B**, Vendrame F, Haw S, Basina M, Levy CJ, Maahs DM. Age and Hospitalization Risk in People with Type 1 Diabetes and COVID-19: Data from the T1D Exchange Surveillance Study. J Clin Endocrinol Metab. 2021 Sep 28:dgab668. doi: 10.1210/clinem/dgab668. Online ahead of print. PMID: 34581790
- 51. Fite A, Wang L, **Seyoum B.** Vitamin D deficiency is associated with metabolic syndrome. *Journal of diabetes, metabolism and its complications in press.*
- 52. Salim AM, Campbell-Voytal K, Lagnf A, Al-janabi W, **Seyoum B**. Quality of Diabetes Care at a University Specialty Clinic. *International Journal of Diabetes and Metabolism in press.*

### II. Books

1. Contributed to the consensus document on the Guidelines for the management of NIDDM in Africa, Accra, Ghana, 1995.

#### III. International collaborative study

- 1. International study of asthma and allergies in childhood, 1993-1999.
- 2. Global lower extremity amputation study, 1997-1999.

#### ABSTRACTS PRESENTED AT SCIENTIFIC MEETING BUT NOT PUBLISHED:

1. Abdulkadir J, <u>Seyoum B</u>. Report on an ongoing study of a practical approach to the management of diabetes during pregnancy. 4th Pan African Diabetes Study Group Congress, Abstract No. 104, 1994.

4201 St. Antoine, UHC-4H Detroit, MI 48201

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- 2. <u>Seyoum B</u>, Alemayehu B, Abdulkadir J, Gebregziabher F. The pattern of macrovascular diseases among diabetic admissions to Tikur Anbessa hospital over a period of six years. Ethiopian Medical Association conference, Abstract No 43, 1995.
- 3. <u>Seyoum B</u>, Vidgren G, Tuomilehto J, Tuomilehto E-Wolf, Abdulkadir J. Genetics of diabetes mellitus in Ethiopian families. International diabetes epidemiology group symposium, Abstract No. 012, 1997.
- 4. <u>Seyoum B</u>, Ejigu A. Improving metabolic control by improving faulty injection techniques in diabetic patients. Presented at the Ethiopian Medical Association, 1998.
- 5. <u>Seyoum B</u>, Bane A. Disease profile of elderly patients admitted to Tikur Anbessa teaching hospital over 10 years. Presented at the Ethiopian Medical Association, 1998.
- 6. <u>Seyoum B.</u> Outcome of pregnant thyrotoxic Ethiopian patients. Presented at the Ethiopian Medical Association, 1998.
- 7. <u>Seyoum B</u>, Ekwueme-Sturdivant N, Guzman CB. Polycystic Ovarian Syndrome presenting as primary amenorrhea. American Association of Clinical Endocrinologists 13<sup>th</sup> annual meeting and clinical congress, Abstract #35, 2004. Endocrine Practice 2004;10(suppl 1):12-13.
- 8. <u>Seyoum B.</u> One year experience of one Intern. Presented in the New York Methodist Hospital research day in May 2003.
- 9. <u>Seyoum B</u>, Berhanu P. Profile of diabetic ketoacidosis in a predominantly African American urban patient population. American diabetes association, Abstract # 1202, 2004.
- 10. <u>Seyoum B</u>, Guzman CB. Prolactinoma presenting with anosmia. The endocrine society, Abstract # P3-579, Page 608, 2004.
- 11. Seyoum B, Fite A, Abou-Samra A. Adiponectin gene expression is significantly higher in subcutaneous adipose tissue of diabetic ZDF fa/fa rats than in nondiabetic ZDF fa/fa or lean Zucker rats. Presented at the 44th Annual Conference of the European Association for the Study of Diabetes (EASD), September 7-11, 2008, Rome, Italy.

4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

### **CURICULUM VITAE**

#### **COMPOLETED CLINICAL TRIALS:**

- <u>Principal investigator:</u> EXSCEL: "A Randomized, Placebo Controlled Clinical Trial to Evaluate Cardiovascular Outcomes after Treatment with Exenatide once Weekly in patients with Type 2 Diabetes Mellitus".
- <u>Principal investigator:</u> Cardiovascular Inflammation Reduction Trial (CIRT): A
  randomized, double-blind, placebo-controlled, event-driven trial of weekly low-dose
  methotrexate (LDM) in the prevention of recurrent cardiovascular events among
  stable post-myocardial infarction patients with type 2 diabetes or metabolic
  syndrome.
- <u>Principal investigator:</u> Efficacy and Safety of FIAsp Compared to Insulin Aspart in Combination with Insulin Glargine and Metformin in Adults with Type 2 Diabetes onset® 2 Trial phase: 3a.
- <u>Principal investigator:</u> DEVOT-Trial EX1250-4080 A trial comparing cardiovascular safety of insulin degludec versus insulin glargine in subjects with type 2 diabetes at high risk of cardiovascular events.
- <u>Principal investigator:</u> A Multicenter, Randomized, Partial-Blinded, Placebo-Controlled Study to Evaluate the Safety and Efficacy of an Intravenous Investigational Product in Subjects with New-Onset Type 1 Diabetes Mellitus.
- <u>Principal investigator:</u> Double-blind, Placebo-controlled Study Evaluating the Efficacy, Safety and Tolerability of GS-4997 in Subjects with Stage 3 or Stage 4 Diabetic Kidney Disease.

### **GRANT SUPPORT:**

- Principal investigator: 09/01/2006 8/30/2011
   Differential cytokine gene expression by regional adipose tissue. Research started with start up grant from the Department of Medicine, Division of Endocrinology. Additional fund will be requested from other source to complete the project.

4201 St. Antoine, UHC-4H Detroit, MI 48201

Work Ph: 313-745-3320 / Cell Ph: 313-595-2830

E-mail: <u>Bseyoum@med.wayne.edu</u>

http://endocrinology.med.wayne.edu/profile.php?id=41911

### **CURICULUM VITAE**

• Principal investigator:

7/1, 2009 - 6/30/2011

Harper University Hospital Staff Trust Fund \$25,0000

Cytokine production in myocyte and adipocyte co-culture

The goal of this project is to study the gene expression of pro-inflammatory insulin antagonizing cytokines such as TNF- $\alpha$ , IL6, resistin and leptin, and anti-inflammatory cytokines, such as adiponectin and visfatin in a co-culture of adipocytes and skeletal muscle cells.

• Principal Investigator

**Healthy Detroit** 

3/1/2011 - 2/30/2011 Blue

\$25,000

Cross Blue Shield of Michigan

Healthy Detroit - Diabetes Initiative

This grant was used for physician's incentive related to the HbA1c screening being conducted at the Detroit Receiving Hospital emergency room. Healthy Detroit is a program whereby patients coming to the ambulatory rapid care section of the emergency room are given a free screening for diabetes.

• Principal Investigator

Healthy Detroit DMC Foundation

5/1/2011 - 4/28/2011

\$100,000

Healthy Detroit - Diabetes Initiative

This grant will be used to continue the *Healthy Detroit - Diabetes Initiative* program. The goal of this program is to offer a free diabetes screening using HbA1c for all patients coming to the ambulatory rapid care section of the emergency room.

• PA-08-06468 (PI, Abou-Samra)

4/30/2010 - 3/31/2015

\$183,111

NIH/NIDDK

Fellowship Training Grant (T32) - Postdoctoral Training in Endocrine and Diabetes

Research

Program leader

5/1/2011 - 4/28/2012

\$130,000

Beacon

**Community** 

Healthy Detroit - Diabetes Initiative

*Healthy Detroit - Diabetes Initiative* (Seyoum)

This grant will be used to continue the *Healthy Detroit – Diabetes Initiative* program and check HbA1c on all patients with diabetes. The goal of this program is to offer a free diabetes screening using HbA1c for all patients coming to the ambulatory rapid care section of the emergency room and determined the metabolic control of patients with diabetes.

• 5R01DK081750-04 (Co-I - Seyoum) - 20%

12/01/2008 - 11/30/2013

4201 St. Antoine, UHC-4H Detroit, MI 48201

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hypoglycemia after bypass bariatric surgery.

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### **CURICULUM VITAE**

Human skeletal muscle phosphoproteome in obesity and type 2 diabetes \$1,504,895
The grant's goal is to determine how protein-protein interactions involving IRS-1 in human skeletal muscle are altered in obesity and type 2 diabetes.

- Secondary prevention of hypoglycemia with lanreotide in patients having had bypass surgery for morbid obesity
   #Seyoum, PI 15%
   Ipsen research grant
   The objective of the grant is to determine the use of Lanreotide in preventing
- Human kinome in skeletal muscle insulin resistance. Part of the WSU Multidisciplinary
   Research Group The WSU Diabetes and Obesity Team Science 07/01/2013-06/30/2016
   Dr. Seyoum CO-PI and Dr. Zhengping Yi (PI) \$180,000
- Contribution of white adipose tissue to energy expenditure during non-shivering thermogensis. Part of the WSU Multidisciplinary Research Group The WSU Diabetes and Obesity Team Science 07/01/2013-06/30/2016
   Dr. Seyoum CO-PI and Dr. Otto Muzik (PI) \$180,000
- Adipose tissue of obese non-diabetic vs. obese diabetic individuals reveals mechanistic clues to the pathogenesis of Type 2 Diabetes
   Dr. Jack Ryan Award Proposal February 28, 2014......2,000
   Assia Shisheva, PhD and Berhane Seyoum, MD (CO-PIs).

This study explores function and regulation of protein phosphatase 2A in human skeletal muscle in obesity and type 2 diabetes.

• 1 R01DK102355-01 (Co-I Seyoum) - 10%.......09/11/2014-6/30/2017 Sympathetic innervation of cold activated brown and white fat in lean young adults......\$914,259

The overall goal of this research is to address the mechanisms underlying variations in human BA abundance, and to identify the extra-supraclavicular AT sites of cold-induced thermogenesis.

1R01DK107666-01 (Co-I Seyoum) - 30%......09/25/2015 - 08/31/2020

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	Serine / Threonine Protein Phosphatase 1 in Insulin Resistance and Type 2
	Diabetes"\$2,583,343
	The main goal is to determine PPP1R12 protein abundance and protein interaction partners in
	skeletal muscle from lean healthy controls, obese non-diabetic controls, and obese T2D
	subjects.
•	1R01DK109036-01 (Co-I Seyoum) - 5%
	PI is Dr. Jiemei Wang04/01/2016 - 03/31/2021
	Role of Inositol requiring enzyme 1 in regulating angiogenesis for diabetic wound repair. "\$1,283,343
	The proposed studies will examine the regulatory role of IRE1α in angiogenesis and miR
	homeostasis during wound healing in type 2 diabetic mice and in human endothelial progenitor
	cells.
•	PI Dr. Assia Shisheva (Co-I Seyoum 10%)1/1/2016 – 12/30/2018
	Functional Genetics for Predisposition to Development of Type 2 Diabetes in Obese
	Individuals\$280,000
	The study is intended to study the genetic predisposition of insulin resistance using adipose
	tissue obtained from human adipose tissue.
•	Berhane Seyoum (PI)8/1/2020 - 7/31/2021
	Leona M. & Harry B. Helmsley Charitable Trust Grant\$100,000
	To study the effect of COVID among patients with T1DM.
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•	K23DK118199 (Co-mentor: Seyoum)
	PI is Dr. Kyle Burghardt8/1/2018 - 7/31/2022
	NIH K23 Patient-Oriented Career Development Award Funding IC: NIDDK - "Acutely Induced
	Insulin Resistance by Antipsychotic Medication in Healthy Volunteers: Impact of Skeletal
	Muscle Epigenomic and Proteomic Mechanisms"
	The goal of this work it to analyze epigenomic (Aim 1) and proteomic (Aim 2) underpinnings of
	antipsychotic-induced insulin resistance.
	Period: