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| Johnny Stiban, Ph.D. | Curriculum Vitae |
| Faculty of Science  Department of Biology and Biochemistry, Birzeit University, West Bank 627, Palestine  Phone: +972-543921144; +970-592451374; Fax: +972-22982084; E-mail: [jstiban@birzeit.edu](mailto:jstiban@birzeit.edu) | |

#### Academic Career

Sep 2022 – Present Professor of Cell Biology and Biochemistry, Birzeit University

Sep 2015 – Aug 2022 Associate Professor of Cell Biology and Biochemistry, Birzeit University

Jan 2021 – Oct 2021 Visiting Fulbright Scholar, Dept. Biochemistry and Molecular Biology,

Virginia Commonwealth University School of Medicine

Feb 2016 – Aug 2019 Chairperson, Department of Biology and Biochemistry, Birzeit University

Feb 2016 – Aug 2019 Director, Master’s program in Environmental Biology, Birzeit University

Aug 2009 – Jul 2015 Assistant Professor of Cell Biology and Biochemistry, Birzeit University

Sep 2012 – Aug 2013 Visiting Research Associate, Dept. Biochemistry and Molecular Biology,

Michigan State University, USA

Jan 2012 – Jun 2012 Assistant Professor, Bard College at Alquds University, Abu Dis

Apr 2007 – Jul 2009 Postdoctoral Fellow, Dept. Biological Chemistry, Weizmann Institute of

Science, Rehovot

Jan 2003 – Dec 2006 Ph.D. Biology, University of Maryland, College Park, USA

Aug 2001 – Dec 2002 B.Sc. Biochemistry, University of Maryland, College Park, USA

Sep 1998 – May 2001 Undergraduate student, Chemistry Department, Birzeit University

#### Awards and Honors

2020 Fulbright Scholarship (10 months at Virginia Commonwealth University)

2018 Erasmus+ Teaching Mobility, Aristotle University of Thessaloniki, Greece

2018 Erasmus+ Teaching Mobility, Sapienza University, Roma, Italy

2017 Distinguished University Professor Award, Birzeit University

2017 Zamalah Fellowship, Welfare Association and Bank of Palestine, Ramallah

2015 EMBO travel award to attend EMBO workshop in Sitges, Spain

2014 Zamalah Fellowship, Welfare Association and Bank of Palestine, Ramallah

2012 Career Development Award, Office of the Vice-President for Academic Affairs

2012 The Abdussalam International Center for Theoretical Physics (ICTP) travel award

2012 Jury’s Choice Poster Award, Hands-On Research on Complex Systems, Shanghai

2011 Partial travel award to attend Charleston Ceramide Conference 6

2010 Committee for Aid and Education in Neurochemistry (CAEN) travel award

2010 ESHF fellowship

2008 FEBS travel award

#### Funding Information

***Fellowships:***

2007-2009 Postdoctoral Fellowship, Weizmann Institute of Science, Rehovot

***Research Grants:***

2022 **Birzeit University** Research grant (7,500 USD)

2018 **Birzeit University** Research grant (4,000 USD)

2018 **Birzeit University** Undergraduate research grant (students: Leen Humos, Tanya

Mitwasi, Ruba Shaheen) (1,000 J.D.)

2017 **Birzeit University** Research grant (9,000 USD)

2015 **Birzeit University** Graduate extended research grant (12,000 USD)

2015 **Birzeit University** Undergraduate research grant (student: Dureen Samandar Eweis) (1,000 J.D.)

2014 **Birzeit University** Graduate research grant (5,500 USD)

2013 **Birzeit University** Joint grant with Dr. Emilia Rappocciolo (Department of Biology and Biochemistry) (8,500 USD)

2013 **Birzeit University** Joint grant with Dr. Adel Hidmi (Chemistry Department) (10,000 USD)

2012 **Birzeit University** Joint grant with Dr. Adel Hidmi (Chemistry Department) (10,000 USD)

2011 **Birzeit University** Lab startup grant (11,000 USD)

#### University Service

* Employee Promotion Committee, April 2018 – 2020
* Distinguished Employee Committee, April 2017 – 2020
* Medical School Committee, October 2016 – 2017
* Academic Graduation Committee, March 2016 – 2019
* Accreditation Committee, September 2015 – December 2015
* Master’s Program in Environmental Biology Council, August 2015 – present
* Science Faculty Cadre Committee, September 2013 – 2020
* Undergraduate Research Committee, September 2013 – 2020
* Scientific Research Ethics Committee, September 2013 – 2016
* Academic Council, September 2013 – 2014; September 2017 – 2018

• Science Faculty Council, September 2011 – 2012; September 2014 – 2019;  
 September 2020 – 2021

* Doctor of Pharmacy Program Committee, August 2010 – 2011

#### Professional Committees

* Palestinian Forum for Medical Research (PFMR), Board Chair, May 2016 – present
* European Society for Clinical Investigation (ESCI), Member, March 2016 – present
* Mitochondrial Physiology Society (MiP), Member, September 2014 – present
* Biophysical Society, Member, February 2003 – May 2006

#### Invited Seminars

* August 2013, Department of Biology, University of Maryland, College Park
* June 2013, GEDD summer research seminar, Michigan State University
* March 2013, MitoSciMed seminar, Michigan State University
* May 2012, Bard College at Alquds University, Abu Dis, *Invited Speaker,* Academic day
* October 2008, Department of Chemistry, Birzeit University, Ramallah
* September 2008, Department of Biochemistry, Alquds University, Abu Dis, Jerusalem

#### International Conferences

**2022**

1. Bioblast 2022 – Bioenergetics Communications (BEC) inaugural meeting – Innsbruck, Austria (invited speaker)

**2021**

1. International Ceramide Conference (online meeting)

**2019**

1. MiP2019/MitoEAGLE Conference – Belgrade, Serbia (invited speaker)
2. FEBS Special Meeting on Sphingolipid Biology – Lisbon, Portugal (invited speaker)

**2018**

1. MitoEAGLE Lund 2018 – Lund, Sweden

**2017**

1. Bioactive Lipids in Cancer, Inflammation and Related Diseases – Puerto Vallarta, Mexico
2. 51st Annual Scientific Meeting of the European Society for Clinical Investigation – Genoa, Italy
3. Young Scientist Networking Meeting 2017 – Barcelona, Spain

**2016**

1. WikiArabia Conference – Amman, Jordan (invited speaker)
2. 50th Annual Scientific Meeting of the European Society for Clinical Investigation – Paris, France (invited speaker)

**2015**

1. EMBO Workshop – Sitges, Spain “*Mitochondrial DNA and Neurodegeneration*”
2. International Ceramide Conference 8, Izmir, Turkey (invited speaker)

**2014**

1. MiP2014 – Joint IUBMB/MiP Symposium on Mitochondrial Physiology, Obergurgl, Austria “*Mitochondrial Physiology - a Point/Counterpoint meeting*” (invited speaker)

**2013**

1. FASEB Science Research Conference, Big Sky, Montana, USA “*Mitochondrial Biogenesis and Dynamics in Health Disease and Aging*”

**2012**

1. Hands-On Research on Complex Systems, Shanghai, China
2. From Genes to Atomic Structure: an Introduction to Synchrotron-Based Structural Biology, Trieste, Italy

**2011**

1. Charleston Ceramide Conference 6, Villars, Switzerland

**2010**

1. European Society of Human Genetics, Bologna, Italy “*Mitochondrial Metabolism and Cancer*” (invited speaker)
2. 9th International Conference on Brain Energy Metabolism, Budapest, Hungary “*Mitochondrial-Cytosolic Interactions: From Energetics to Pathogenesis”*
3. EMBO Workshop, Birzeit University, Palestine “*Frontiers in Molecular Medicine*” (Organizer and speaker)

**2009**

1. Charleston Ceramide Conference 5, Charleston, South Carolina, USA

**2008**

1. FEBS Workshop, Spetses, Greece “*Lipids as regulators of cell function*”
2. AACR Meeting, Dead Sea, Jordan “*Advances in Cancer Research: From the Laboratory to the Clinic*”

**2006**

1. Biophysical Society Meeting, Salt Lake City, Utah, USA (invited speaker)
2. National Academy of Sciences, Washington, DC, USA “*Leadership Summit to Effect Change in Teaching and Learning*“ (student participant)

**2005**

1. Biophysical Society Meeting, Baltimore, Maryland, USA

#### National Conferences

**2016**

1. 6th Biomedical Research Symposium, Bethlehem University

**2015**

1. 1st National Conference on Applied Biomedical Sciences, Arab American University, Jenin
2. 5th Biomedical Research Symposium, Birzeit University, *Organizer*

**2012**

1. 2nd Biomedical Research Symposium, Bethlehem University, Bethlehem

**2011**

1. 5th Academic Colloquium, Palestinian Faculty Development Program (PFDP), Ramallah
2. 1st Biomedical Research Symposium, Palestine Polytechnic University, Hebron (invited speaker)

**2010**

1. An-Najah National University, Nablus, Palestine “*Second Conference on Biotechnology Research and Application in Palestine*”

#### Reviewer for Journals

* Biochemical Journal
* Bioscience Reports
* International Journal of Analytical Chemistry
* Current Chemical Biology
* Journal of Advanced Research
* Biochemistry and Biophysics Reports
* Current Medicinal Chemistry
* International Journal of Nanomedicine
* Mitochondrion
* Journal of Biological Chemistry
* Enzyme and Microbial Technology

#### Publications (peer-reviewed)

1. A. Balbaisi and **J. Stiban** (2022) Barth syndrome: a genetic ailment with a lipid component and bioenergetic ramifications *Bioenergetics Communications*. https://doi.org/10.26124/bec:2022-0005
2. M. Abed Rabbo and **J. Stiban** (2022) NUBPL: a mitochondrial Complex I deficiency disorder. *Bioenergetics Communications*. https://doi.org/10.26124/bec:2022-0003
3. M. So, **J. Stiban**, G.L. Ciesielski, S.L. Hovde, and L.S. Kaguni (2021) Implications of membrane binding by the Fe-S cluster-containing N-terminal domain in the Drosophila mitochondrial replicative DNA helicase. *Frontiers in Genetics*. *12:790521.* doi: 10.3389/fgene.2021.790521
4. M. Abed Rabbo, Y. Khodour, L.S. Kaguni, and **J. Stiban** (2021) Sphingolipid lysosomal storage diseases: from bench to bedside. *Lipids Health Dis*. 20(1): 44. doi: 10.1186/s12944-021-01466-0.
5. Y. Khodour, L.S. Kaguni, and **J. Stiban** (2019) Iron-Sulfur clusters in nucleic acid metabolism: Varying roles of ancient cofactors. *The Enzymes.* 45: 225-256. doi: 10.1016/bs.enz.2019.08.003. Academic Press, Elsevier, ISSN 1874-6047
6. S. Albeituni and **J. Stiban**. (2019) Roles of ceramides and other sphingolipids in immune cell function and inflammation. *Adv Exp Med Biol.* 1161: 169-191.
7. E. Rappocciolo and **J. Stiban** (2019) Prokaryotic and Mitochondrial Lipids: A Survey of Evolutionary Origins. *Adv Exp Med Biol.* 1159:5-31.
8. **J. Stiban** (2019) Introduction: Enigmas of Sphingolipids. *Adv Exp Med Biol.* 1159:1-3.
9. A. Herminghaus, H. Papenbrock, R. Eberhardt, C. Vollmer, R. Truse, J. Schulz, I. Bauer, A. Weidinger, A.V. Kozlov, **J. Stiban**, O. Picker. (2019) *Intensive Care Med Exp.* 8;7(1):4.
10. D.S. Eweis, F. Abed and **J. Stiban**.(2017) Carbon dioxide in carbonated beverages induces ghrelin release and increased food consumption in male rats: implications on the onset of obesity. *Obesity Research and Clinical Practice* 11(5):534-543.
11. **J. Stiban**, M. So, L.S. Kaguni. (2016) Iron sulfur clusters in mitochondrial metabolism: Multifaceted roles of a simple cofactor. *Biochemistry (Moscow)* 81(10): 1066-1080.
12. M. Abou-Ghali and **J. Stiban**.(2015) Regulation of ceramide channel formation and disassembly: Insights on the initiation of apoptosis. *Saudi J. Biol. Sci.* 22(6): 760-772.
13. **J. Stiban** and M. Perera. (2015) Very long chain ceramides interfere with C16-ceramide-induced channel formation: A plausible mechanism for regulating the initiation of intrinsic apoptosis. *Biochim. Biophys. Acta - Biomembranes*, 1848(2): 561-567.
14. **J. Stiban**, G.A. Farnum, S.L. Hovde and L.S. Kaguni. (2014) The *N*-terminal domain of the *Drosophila melanogaster* mitochondrial DNA helicase contains an iron-sulfur cluster and binds DNA. *J. Biol. Chem.* 289(35): 24032-24042.
15. S.N. Pinto, E.L. Laviad, **J. Stiban**, S.L. Kelly, A.H. Merrill Jr., M. Prieto, A.H. Futerman and L.C. Silva (2014) Changes in membrane biophysical properties induced by sphingomyelinase depend on the sphingolipid N-acyl chain. *J. Lipid Res.* 55(1):53-61.
16. L.C. Silva, O. Ben David, Y. Pewzner-Jung, E.L. Laviad, **J. Stiban**, S. Bandyopadhyay, A.H. Merrill Jr, M. Prieto and A.H. Futerman (2012) Ablation of ceramide synthase 2 strongly affects biophysical properties of membranes. *J. Lipid Res.* 53(3):430-436.
17. S. Samanta, **J. Stiban**, T.K. Maugel and M. Colombini (2011) Visualization of ceramide channels by transmission electron microscopy. *Biochim. Biophys. Acta - Biomembranes* 1808(4):1196-1201.
18. Y. Pewzner-Jung Y, H. Park, E.L. Laviad, L.C. Silva, S. Lahiri, **J. Stiban**, R. Erez-Roman, B. Brugger, T. Sachsenheimer, F. Wieland, M. Prieto, A.H. Merrill Jr and A.H. Futerman (2010) A critical role for ceramide synthase 2 in liver homeostasis: I. alterations in lipid metabolic pathways. *J. Biol. Chem.* 285(14):10902-10910.
19. **J. Stiban**, R. Tidhar and A.H. Futerman (2009) Ceramide Synthases: Roles in Cell Physiology and Signaling, *In:* '*Sphingolipids as Signaling and Regulatory Molecules'* Landes Bioscience *(Publication date 15/2/2010)*
20. **J. Stiban**, L.C. Silva and A.H. Futerman (2008) Ceramide-containing membranes: the interface between biophysics and biology. *Trends Glycosci. Glycotech.* 20(116): 297–313.
21. **J. Stiban**, L. Caputo and M. Colombini (2008) Ceramide synthesis in the endoplasmic reticulum can permeabilize mitochondria to proapoptotic proteins. *J. Lipid Res.* 49(3): 625-634.
22. **J. Stiban**, D. Fistere and M. Colombini (2006) Dihydroceramide hinders ceramide channel formation: Implications on apoptosis. *Apoptosis*. 11(5): 773-780.

#### Publications (Teaching Manuals)

1. **J. Stiban** (2019) Enzymology (BIOC 434) Lab Manual. *Birzeit University.*
2. **J. Stiban** (2014) Biochemistry II (BIOC 312) Lab Manual. *Birzeit University*.
3. **J. Stiban**(2014) Animal Unit Care Manual. *Birzeit University.*
4. **J. Stiban** *et. al.*General Science (GENS 131). *Birzeit University.*
5. **J. Stiban** (2011) Biochemistry I (BIOC 311) Lab Manual. *Birzeit University*.
6. **J. Stiban** (2011) Clinical Biochemistry (BIOC 413) Lab Manual. *Birzeit University*.
7. S. Beituni, A. Abdulkhaliq and **J. Stiban** (2010) General Biology (BIOL 111) Lab Manual. *Birzeit University*.
8. **J. Stiban** (2009) Cell Biology (BIOL 244) Lab Manual. *Birzeit University.*

#### References

1. **Prof. Marco Colombini** (Ph.D. advisor)  
   University of Maryland, College Park, MD, USA  
   [colombini@umd.edu](mailto:colombini@umd.edu)
2. **Prof. Laurie S. Kaguni** (Sabbatical colleague)  
   Michigan State University, East Lansing, MI, USA  
   [lskaguni@msu.edu](mailto:lskaguni@msu.edu)
3. **Dr. Can E. Senkal** (Sabbatical colleague)   
   Virginia Commonwealth University, Richmond, VA, USA  
   [can.senkal@vcuhealth.org](mailto:can.senkal@vcuhealth.org)

*Last updated:*

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