

## Justin David Topp

### CURRENT CONTACT

Endicott College  
School of Arts and Sciences  
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### EDUCATION

University of Texas-Southwestern Medical Center, Dallas, TX  
**Post-doctoral Certificate in Research** (2007)  
Focus: Continuing Education in Teaching, Research Methods, Ethics

University of Texas-Southwestern Medical Center, Dallas, TX  
**Ph.D., Biological Chemistry** (2005)  
Dissertation: Rab5 activating proteins and their regulation of endocytosis and cell signaling

University of Iowa College of Engineering, Iowa City, IA  
**B.S.E. with Honors and Distinction, Biomedical Engineering** (2000)  
Honors Thesis: The role of the cytoskeleton in protein trafficking by the Golgi apparatus

### WORK EXPERIENCE

Endicott College, School of Arts and Sciences, Beverly, MA  
**Assistant Dean of Science, Technology, and Mathematics** (2014 – present)  
**Professor of Biology and Bioengineering** (2017 – present)  
**Associate Professor of Biology and Bioengineering** (2014 – 2017)

- *Supervise 15 full-time faculty, full-time lab manager, Project Engineer/Makerspace Coordinator, and 30+ adjunct faculty with hiring and evaluation responsibilities. Hired two new full-time faculty and Project Engineer/Makerspace Coordinator.*
- *Oversee major and minor programs in Actuarial Science, Applied Mathematics, Bioengineering, Biology and Biotechnology, Computer Science, Environmental Science, and Mathematics including multiple programs that lead to Secondary Education licensure. Lead curricular revision of most majors, new program development, and program assessment. Formally reviewed Computer Science and Environmental Science programs. Created annual STEM scholars recognition ceremony.*
- *Developed Engineering major to begin fall 2018 that required approval by the state and regional accreditor. Created Bioinformatics M.S. degree currently under state review. Brainstorming M.S. degree in Innovation, Technology, and Entrepreneurship with Angle Center for Entrepreneurship and MBA program. Lead ABET accreditation planning for Bioengineering and Engineering degrees.*
- *Pursue partnerships with other academic institutions in degree and course offerings.*

- *Set course schedule and staff all STEM-related courses.*
- *Manage operating budget, which includes discretionary spending.*
- *Work with the Admissions department to market programs and recruit students. Have grown STEM major students by 40% in three years (currently 215 students).*
- *Developed NEST scholarship program for low-income students to promote diversity, increase student numbers in programs, and improve student training. Involved collaboration with Vice Presidents of Admissions, Academics, Advancement, and Academic Resources/Student Persistence. Seeking funding for program from sources such as HHMI and NSF S-STEM grant programs.*
- *Plan interdisciplinary grants in collaboration with other deans in areas such as science and humanities, technology and design.*
- *Established Makerspace with the Schools of Business and Visual and Performing Arts and planning additional spaces for new Engineering program.*
- *Promote use of Endicott STEM incubator lab, including business development for Endicott's partner North Shore InnoVentures. Identify potential startups for Endicott and NSIV incubators and work to promote success of incubated companies.*
- *Created STEM lecture series which brings in nationally recognized speakers. Hosted international scholar for semester (fall 2016). Held multiple outreach events involving partnerships with local schools, MassBioEd, First Robotics, HackfortheSea, etc.*
- *Recently begun partnering with Advancement Office in fundraising efforts with corporate foundations and individual donors to support science building expansion and undergraduate research. Also work with local industry to identify programmatic partnerships and internship sites for students.*
- *Serve as Secretary and now President of the North Shore chapter of Sigma Xi, the Scientific Research Society. Also serve on the Operations Board and Networking and Sponsorship committees of the North Shore Technology Council. Chair or serve on Endicott committees including Professional Development, Institutional Review Board, Assessment, Advanced Graduate Council, Thesis Conference, and position searches.*
- *Teach one or two courses a semester and pursue research in biochemistry, molecular biology, and science and religion. Benchtop studies performed in collaboration with undergraduates and local companies.*

Gordon College, Department of Biology, Wenham, MA

**Associate Professor of Biology** (2011 – 2014)

- *Co-founder of the Life Sciences Consortium of the North Shore, a five-institution partnership (four colleges, one non-profit incubator lab) formed to promote workforce development in collaboration with industry. We received a \$5,000,000 grant from the Massachusetts Life Sciences Center to pursue these initiatives, a grant I co-wrote with Endicott Dean of Arts and Sciences, Gene Wong. Gordon received \$1,350,000 for equipment and facilities upgrades in biology, chemistry, psychology, and kinesiology. Consortium formation required significant development and integration with life sciences and medical device companies. I reported to the provost and president in this role.*
- *Wrote for and received additional grants, one of which in partnership with faculty member Craig Story supported a yearly conference for pastors on science and faith.*
- *Served on committees and task forces ranging from strategic development to teacher education. Chaired undergraduate research committee.*

- *Taught three courses a semester in variety of areas (first-year to graduate level).*
- *Advised students and mentored undergraduates in research; all presented at regional or national conferences. Performed collaborative proteomic research with local companies.*

North Park University, Department of Biology, Chicago, IL

**Assistant Professor of Biology** (2008 – 2011)

- *Elected to the inaugural Academic Senate as an at-large Senator in first year at institution. Wrote bylaws and chaired or served on Senate committees and the Undergraduate Research Committee.*
- *Taught three courses a semester and oversaw the Clinical Laboratory Sciences program.*
- *Formed a collaborative research lab with fellow faculty member, Matthew Schau. We co-mentored four undergraduate research students a year. This model has remained and I have continued my collaboration with Matt and others since I left North Park.*

University of Texas-Southwestern Medical Center, Departments of Biochemistry and Molecular Genetics, Dallas, TX

**Postdoctoral Researcher I**, Lab of Drs. Michael Brown and Joseph Goldstein (2005)

**Postdoctoral Researcher II**, Lab of Dr. Kristen Lynch (2005 – 2008)

- *Pursued biomedical research, mentored graduate students and technicians.*
- *Wrote and edited manuscripts. Wrote for and received a post-doctoral fellowship.*
- *Co-taught a graduate-level course.*
- *Served as co-chair of the Postdoctoral Association International Committee. This multicultural group put on events to promote fellowship and provide relevant information for international students.*

University of Texas-Southwestern Medical Center, Department of Biochemistry, Dallas, TX

Mayo Clinic, Department of Biochemistry and Molecular Biology, Rochester, MN

**Graduate Student**, Lab of Dr. Bruce Horazdovsky (2001 – 2005)

- *Took courses in biomedical science.*
- *Pursued collaborative and independent research and trained younger students in lab techniques.*
- *Wrote and edited manuscripts. Wrote for and received a pre-doctoral fellowship.*

## **LEADERSHIP AND SERVICE EXPERIENCE (ITEMIZED)**

Endicott College

**Chair – Departments**, *Biology and Biotechnology, Computer Science and Engineering, Environmental Science, and Mathematics Departments* (2014 – present)

**Chair – Standing Committees**, *Thesis Day* (2015 – 2017), *Animal Care and Biosafety* (2016 – present)

**Chair – Ad Hoc Committee**, *STEM Lecture Series* (2016 – present)

**Chair – Search Committees**, *Applied Mathematics Faculty* (2015), *Microbiology Faculty – new line* (2016), *Project Engineer/Makerspace Coordinator – new line* (2016)

**Member – Standing Committees**, *Institutional Review Board* (2014 – present), *Professional Development* (2014 – present), *Assessment* (2016 – present), *Health Professions Advising* (2017 – present), *Advanced Graduate Council* (2017 – present)

**Member – Search Committees**, *Security Studies Faculty – new line* (2015), *Science and Humanities Internship Coordinator and Experiential Learning Faculty* (2015), *Assistant Dean of Nursing – new line* (2016), *Nursing Faculty – new lines* (2016, 2017)

**Board Member - Operations**, *North Shore Technology Council* (2015 – present)

**Chair**, *North Shore Technology Council Networking Committee* (2015 – 2017)

**Member**, *North Shore Technology Council Sponsorship Committee* (2017 – present)

**Secretary**, *Sigma Xi: The Scientific Research Society – North Shore of MA chapter* (2016 – 2017)

**President**, *Sigma Xi: The Scientific Research Society – North Shore of MA chapter* (2017 – present)

**Abstract Reviewer**, *Biomedical Engineering Society Annual Meeting* (2017 – present)

**Science Fair Judge**, *Beverly, MA community schools* (2015 – present)

#### Gordon College

**Steering Committee Founder and Member**, *Life Sciences Consortium of the North Shore – Endicott College, Gordon College, Salem State University, North Shore Community College, North Shore InnoVentures, local industry partners* (2012 – )

**Chair**, *Undergraduate Research Committee* (2013 – 2014)

**Member – Standing Committees**, *Undergraduate Research* (2011 – 2014), *Convocation* (2012 – 2013), *Teacher Education* (2012 – 2014)

**Member – Ad Hoc Committees**, *Accreditation Seat Time Task Force* (2012 – 2013), *Robert Herrmann Lectures On Faith and Science* (2013 – 2014), *Victory Committee Strategic Plan Working Group* (2014), *Resourcing Gordon's Future Working Group Council of 125* (2014)

**Member – Search Committee**, *Chemistry Faculty– two lines* (2013 – 2014)

**Participant**, *President's Preview Day Panel* (2012), *Provost's Reading Group on Reframing Organizations* (2013 – 2014)

**Moderator**, *Herrmann Lectures on Faith and Science* (2014)

#### North Park University

**At-Large Elected Senator**, *Faculty Senate* (2009 – 2011)

**Chair – Senate Subcommittees**, *Meeting Bylaws* (2009 – 2010), *Undergraduate Research* (2010 – 2011)

**Member – Standing Committee**, *Undergraduate Research* (2008 – 2011)

**Chemical Safety Officer Liaison**, *Biology Department* (2009 – 2011)

**Judge and Moderator**, *Undergraduate Research Symposium* (2008 – 2011), *Trustee Scholarship Competition* (2010 – 2011)

**Secretary/President Elect**, *Biology Division, Associated Colleges of the Chicago Area* (2010 – 2011)

**Chair**, *Fall Seminar Series on Environmental Microbiology, Associated Colleges of the Chicago Area* (2010)

#### University of Texas-Southwestern Medical Center

**Co-chair**, *International Committee, Post-doctoral Association* (2007 – 2008)

## SELECTED GRANTS AND AWARDS

1. Summer Undergraduate Research Fellowship (1999)  
Funder: University of Iowa Department of Physiology and Biophysics  
Amount: \$2,500
2. Regulation of intra-organelle trafficking of the SCAP-SREBP complex (2001)  
Funder: National Science Foundation Pre-doctoral Fellowship  
Amount: \$124,000
3. Identification of signal-induced splicing regulators (2007)  
Funder: National Institutes of Health – Ruth L. Kirschstein National Research Service Award  
Amount: \$101,000
4. Molecular characterization of Borrelia burgdorferi, the causative agent of Lyme disease (2009)  
Funder: North Park University Individual Development Program Grant  
Amount: \$2,500  
Collaborator: Matthew Schau
5. Molecular characterization of Borrelia burgdorferi from the Chicagoland Area (2009)  
Funder: Tri Beta Research Award  
Amount: \$1,200  
Collaborator: Matthew Schau
6. Surveillance for the prevalence of Anaplasma phagocytophilum in the Chicagoland area (2010)  
Funder: Tri Beta Research Award  
Amount: \$1,160  
Collaborator: Matthew Schau
7. OspC genotyping of Borrelia burgdorferi reveals significant heterogeneity in Chicagoland area (2012)  
Funder: American Society for Microbiology Student Travel Grant Award  
Amount: \$500  
Collaborator: Tyler Nelson (principal investigator) and Matthew Schau
8. Purchase of Odyssey Fc Imaging System (2013)  
Funder: LI-COR Biosciences Science Undergraduate Research Grant  
Amount: \$18,400
9. Moving pastors toward scientific literacy (2013)  
Funder: BioLogos Evolution and Christian Faith Grant  
Amount: \$204,100  
Collaborator: Craig Story (project director)
10. Formation of the Life Sciences Consortium of the North Shore – equipment and facilities upgrades (2014)  
Funder: Massachusetts Life Science Center Capital Grant  
Amount: \$5,000,000 (Gordon College received \$1,350,000)  
Collaborator: Gene Wong – Endicott College, Martha Farmer – North Shore InnoVentures
11. Naturally Engaged Scientist Training (NEST) Scholars Program (proposal in revision)  
Funder: NSF Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM)  
Amount: \$649,555  
Collaborator: Joyce Shaw

## CURRENT/PAST PROFESSIONAL ORGANIZATION MEMBERSHIP

American Conference of Academic Deans	Biomedical Engineering Society
American Scientific Affiliation	Center for Theology and Natural Sciences
American Society for Cell Biology	Council of Chairs in Bioengineering and Biomedical Engineering
American Society for Microbiology	Institute on Religion in an Age of Science
American Society for Mass Spectrometry	RNA Society
American Association for the Advancement of Science	Sigma Xi, The Scientific Research Society
Association of American Colleges & Universities	

## COURSES TAUGHT

### Endicott College

*BEN 480 Bioengineering Semester Internship*  
*BEN 489/490 Bioengineering Senior Thesis I/II*  
*BIO 292 Microbiology*  
*BIO 299 Independent Study in Biology: Protein Purification and Applications*  
*BIO 480 Biology and Biotechnology Semester Internship*  
*BIO 489/490 Biology and Biotechnology Senior Thesis I/II*  
*CHE 209 Biochemistry (with lab)*

### Gordon College

*BIO 150 Biology I: Cells and Genetics (with lab)*  
*BIO 151 Biology II: Animal Biology (with lab)*  
*BIO 260 Introduction to Research in Biology*  
*BIO 314 Microbiology (with lab)*  
*BIO 321 Molecular Cell Biology (with lab)*  
*BIO 425 Internship in Biology*  
*BIO 471 – BIO 474 Research in Biology I-IV*  
*BIO 491 Senior Seminar in Biology*  
*EDU 621 Molecular Cell Biology (with lab)*  
*NSM 202 The Scientific Enterprise*

### North Park University

*BIOL 1160 Microbes and Society (with lab)*  
*BIOL 2100 Critical Thinking in Biology (special topic)*  
*BIOL 2100 Introduction to Science and Religion (special topic)*  
*BIOL 2910 Microbiology (with lab)*  
*BIOL 3620 Immunology (with lab)*

### University of Texas-Southwestern Medical Center

*Non-coding RNAs journal club*

## SCIENTIFIC PUBLICATIONS

# indicates co-corresponding authors

\* indicates undergraduate co-author

1. Ahluwalia, J.P., Topp, J.D., Weirather, K., Zimmerman, M., and M. Stamnes (2001). *A role for calcium in stabilizing transport vesicle coats*. Journal of Biological Chemistry 276: 34148-34155.
2. Davies, B.A., Topp, J.D., Sfeir, A.J., Katzmann, D.J., Carney, D.S., Tall, G.G., Friedberg, A.S., Deng, L., Chen, Z., and B.F. Horazdovsky (2003). *Vps9p CUE domain ubiquitin binding is required for efficient endocytic protein traffic*. Journal of Biological Chemistry 278: 19826-19833.
3. Topp, J.D., Gray N.W., Gerard, B., and B.F. Horazdovsky (2004). *Alsin is a Rab5 and Rac1 exchange factor*. Journal of Biological Chemistry 279: 24612-24623.
4. Devon, R.S., Schwab, C., Topp, J.D., Orban, P.C., Yang, Y., Pape, T.D., Helm, J.R., Davidson, T., Rogers, D.A., Gros-Luis, F., Rouleau, G., Horazdovsky, B.F., Leavitt, B.R., and M.R. Hayden (2005). *Cross-species characterization of the Als2 gene and analysis of its pattern of expression in development and adulthood*. Neurobiology of Disease 18: 243-257. (cover)
5. Topp, J.D., Carney, D.S., and B.F. Horazdovsky (2005). *Biochemical characterization of Alsin, a Rab5 and Rac1 guanine nucleotide exchange factor*. Methods in Enzymology 403: 261-275.
6. Ip, J., Tong, A., Pan, Q., Topp, J.D., Blencowe, B.J., and K.W. Lynch (2007). *Global analysis of alternative splicing during T cell activation*. RNA 13: 563-572.
7. Topp, J.D., Jackson, J., Melton, A.A., and K.W. Lynch (2008). *A cell-based screen for splicing regulators identifies hnRNPLL as a distinct signal-induced repressor of CD45 variable exon 4*. RNA 14: 2038-2049.
8. J.D. Topp (2015). *Alsin*. UCSD Molecule Pages. doi: 10.6072/H0.MP.A004773.01. Published online 20 July 2015.
9. Kruguer, S.\*, Mason, S.\*, Keller, G.S., and J.D. Topp (2015). *Effects of landscape fragmentation, habitat, and vegetation on abundance of Ixodes scapularis as a Lyme disease carrier in Essex County, Massachusetts*. FASEB Journal 29: 718.5.
10. Topp, J.D.#, Chen, G., Severson, S.R., and B.F. Horazdovsky#. *Alsin mediates IGF-1 receptor signaling and cell survival*. (in revision)
11. Topp, J.D.#, Ondrey, J.\*, Carlson, T.\*, Nam, H.\*, Versland, L.\*, Meyers, M.\*, Morrison, B.\*, Cholewinski, M.\*, Ardito, C.\*, Nelson, T.\* Nelson, J.A., Jobe, D., Lovrich, S., and M. Schau#. *Molecular fingerprinting and genomics analysis confirms the presence and widespread distribution of Borrelia burgdorferi sensu stricto in the Chicagoland area*. (in revision)
12. Schau, M.D., Rholl, D.A., Berger, C.K.\*, Switzer, S.A.\*, Dailey, K.\*, Briedis, K.R.\*, Adam, M.D.\*, Topp, J.D., and J.A. Nelson. *Anaplasma phagocytophilum and Babesia odocoilei in the Chicago region*. (in revision)
13. Mason, S.D.\*, Sherratt, S.C.R.\*, Kruguer, S.M.\*, Muthersbaugh, M.\*, Harris, J.S., Topp, J.D.#, and G.S. Keller#. *A multi-scale analysis of the effect of habitat fragmentation on small mammal communities and infectious disease prevalence in Essex County, MA*. (in preparation)

## BOOKS

1. J.D. Topp. *Parallel Universes: Searching for a Wormhole in the Creation-Evolution Dialogue*. InterVarsity Press – BioLogos Evolution and Christian Faith Grant series. Downers Grove, IL: InterVarsity Press. (proposal in review)

## BOOK REVIEWS

1. J.D. Topp (2008). Review of *A Scientific Search for Religious Truth* by P. Mundt. *Perspectives on Science and Christian Faith* 60: 200.
2. J.D. Topp (2008). Review of *Evolution and Religious Myths: How Scientists Respond* by P.F. Lurquin and L. Stone. *Perspectives on Science and Christian Faith* 60: 202-203.
3. J.D. Topp (2012). Invited Review of *Life's X Factor: The Missing Link in Materialism's Science of Living Things* by N. Broom. *Perspectives on Science and Christian Faith* 64: 255-256.
4. J.D. Topp (2013). Invited Review of *Origins: Christian Perspectives on Creation, Evolution, and Intelligent Design* by D.B. Haarsma and L.D. Haarsma. *Perspectives on Science and Christian Faith* 65: 210-212.
5. J.D. Topp (2013). Invited Review of *Science, Creation, and the Bible* by R.F. Carlson and T. Longman III. *Reports of the National Center for Science Education* 33: 10.1-3.

## CHAPTERS IN EDITED VOLUMES

1. A. Martin\* and J.D. Topp (2017). Als in S. Choi (Ed.), *Encyclopedia of Signaling Molecules*. New York, NY: Springer-Verlag New York.
2. J.D. Topp (2017). Make Love Not War: Improving the Relationship of Religion and Science In C. Baker, G. Coffin, C. Drury, G. Kirksey, L. Michaels, and D. Ward (Eds.), *Uncontrolling Love: Essays Exploring the Love of God with Introductions by Thomas Jay Oord*. Boise, ID: SacraSage Press.

## ESSAYS

1. J.D. Topp (2010). Review of *Galileo Goes to Jail and Other Myths about Science and Religion* edited by Ronald L. Numbers. Jesus Creed blog. <http://www.patheos.com/blogs/jesuscreed/2010/07/03/saturday-afternoon-book-review-justin-topp/> (published 3 July 2010).
2. J.D. Topp (2010). *Evangelicalism, adaptation, and the personal*. Science & the Sacred Blog, BioLogos Foundation. <http://biologos.org/blog/evangelicalism-adaptation-and-the-personal/> (published 13 July 2010).
3. J.D. Topp (2010). Review of *Evolving in Monkey Town* by Rachel Held Evans. Jesus Creed blog. <http://www.beliefnet.com/columnists/jesuscreed/2010/08/evolving-in-monkey-town-justin.html> (published 10 August 2010).
4. J.D. Topp (2011). *With respect to nature*. Invited article in the *Covenant Companion* Feb 2011: 22-25.



5. J.D. Topp (2014). *Lakatos and the creation-evolution "discussion."* Two-part series, Science & the Sacred Blog, BioLogos Foundation. <http://biologos.org/blog/lakatos-and-the-creation-evolution-discussion-part-2> (published 24 and 25 February 2014).
6. J.D. Topp (2015). *Creation and evolution "research programs" (and why it's so hard to change perspectives)*. Science & the Sacred Blog, BioLogos Foundation. <http://biologos.org/blog/creation-and-evolution-research-programs-and-why-its-so-hard-to-change-pers> (published 29 July 2015).
7. J.D. Topp (2016). *Essential Kenosis as a Model for Science and Religion Integration*. Invited essay on Thomas's Oord's book *The Uncontrolling Love of God: An Open and Relational Account of Providence, For the Love of Wisdom and the Wisdom of Love* blog. (published 22 September 2016).

I also maintain a personal blog on the constructive interface of science and religion called a biologist's view of science and religion ([scienceandtheology.wordpress.com](http://scienceandtheology.wordpress.com)) that has amassed over 90,000 hits.

### INVITED PRESENTATIONS

1. Signal-mediated modulation of cell homeostasis (2007)  
Bend Research Inc.  
Bend, OR
2. Signal-induced alternative splicing in the immune system (2008)  
North Park University  
Chicago, IL
3. Signal-induced alternative splicing in the immune system (2008)  
Drake University  
Des Moines, IA
4. What matters most: knowledge/reason, community, work/service (2010)  
*What Matters Most' Honors Discussion Group, Sponsored by Dr. Linda Parkyn*  
North Park University  
Chicago, IL
5. Using biotechnology techniques to assess the prevalence of Lyme disease-causing *Borrelia burgdorferi* in the Chicagoland area (2010)  
*ACCA Fall Biology Seminar on Environmental Microbiology*  
Benedictine University  
Lisle, IL
6. Genotyping and molecular fingerprinting reveals the presence of Lyme-disease causing *Borrelia burgdorferi sensu stricto* in Chicago (2011)  
Gordon College  
Wenham, MA
7. Genotyping and molecular fingerprinting reveals the presence of Lyme-disease causing *Borrelia burgdorferi sensu stricto* in Chicago (2012)  
*3<sup>rd</sup> Annual Conference, North Shore Chapter of Sigma Xi*  
Gordon College  
Wenham, MA
8. The gene mutated in juvenile ALS encodes a protein that regulates IGF-1 receptor

endocytosis and cell signaling (2012)

*29<sup>th</sup> Annual New England Society of Microscopy Spring Symposium*

Marine Biology Laboratory

Woods Hole, MA

9. Comparative genomics and phylogenetic analysis of the Lyme disease pathogen *Borrelia burgdorferi* in urban ticks - with Dr. Jessica Kaufman (2016)

*Induction Ceremony and Spring Lecture, North Shore Chapter of Sigma Xi*

Gordon College

Wenham, MA

10. Finding beauty in the science and religion debate (2016)

North Park University

Chicago, IL

11. Microbiomes, personalized medicine, and the \$999 human genome: how next-generation sequencing is revolutionizing bioscience (2016)

North Park University

Chicago, IL

## MEETING ABSTRACTS

1. Stamnes, M.A., Vadakkan, C., Navarette-Alonso, A., Topp, J., and R. Fucini (1999). *ARF regulation of Golgi-bound cytoskeletal proteins*. 39th American Society for Cell Biology Annual Meeting.
2. Ahluwalia, J.P., Topp, J.D., Weirather, K., Zimmerman, M., and M. Stamnes (2000). *A role for calcium in stabilizing the coat on Golgi-derived transport vesicles*. 40th American Society for Cell Biology Annual Meeting.
3. Ahluwalia, J.P., Chen, J.L., Topp, J.D., Weirather, K., and M. Stamnes (2001). *The effect of calcium modulation on the integrity of transport vesicle coat and on Golgi trafficking*. 52nd American Association for the Study of Liver Diseases Meeting.
4. Davies, B.A., Topp, J.D., Sfeir, A., Carney, D.S., Tall, G.G., Friedberg, A.S., and B.F. Horazdovsky (2002). *The Rab guanine nucleotide exchange factor Vps9p is monoubiquitinated and is required for the efficient trafficking of proteins through the endocytic pathway*. 42nd American Society for Cell Biology Annual Meeting.
5. J.D. Topp and B.F. Horazdovsky (2002). *Alsin is a Rab5 guanine nucleotide exchange factor*. 42nd American Society for Cell Biology Annual Meeting.
6. Topp, J.D., Severson, S.R., Devon, R.S., Orban, P.C., Hayden, M.R., and B.F. Horazdovsky (2005). *Alsin mediates IGF-1 receptor signaling and cell survival*. 45th American Society for Cell Biology Annual Meeting.
7. J.D. Topp and K.W. Lynch (2006). *A genetic screening method to identify regulators of signal-induced Splicing*. 4th Annual Postdoctoral Symposium and Poster Session (University of Texas-Southwestern Medical Center).
8. J.D. Topp and K.W. Lynch (2006). *A genetic screening method to identify regulators of signal-induced splicing that incorporates transcriptional synergy to amplify changes in splicing*. 11<sup>th</sup> Annual RNA Society Annual Meeting.
9. Horazdovsky, B.F., Topp, J.D., Chen, G., and S.R. Severson (2009). *Rab5 guanine nucleotide exchange factors: regulators of receptor trafficking from yeast to neurons*. American Society for Neurochemistry 40<sup>th</sup> Annual Meeting.

10. J.D. Topp (2009). *Enhancing critical thinking skills in an upper-level biology course*. Associated Colleges of the Chicago Area 5<sup>th</sup> Annual Scholarship of Pedagogy Symposium.
11. J.D. Topp and M.D. Schau (2010). *Reflections on a year co-mentoring a research lab*. Associated Colleges of the Chicago Area 6<sup>th</sup> Annual Scholarship of Pedagogy Symposium.
12. Cholewinski, M.\* , Ondrey, J.\* , Meyers, M.\* , Morrison, R.\* , Schau, M.D., and J.D. Topp (2010). *Genotyping and molecular fingerprinting analysis reveals the prevalence of *Borrelia burgdorferi sensu stricto* in the Chicagoland area*. 70<sup>th</sup> Annual Meeting of the North Central Branch of the American Society for Microbiology. Awarded 2<sup>nd</sup> Place Poster, Undergraduate Division.
13. Nelson, T.\* , Koubsky, E.\* , Nelson, J.A., Topp, J.D., and M.D. Schau (2012). *OspC genotyping of *Borrelia burgdorferi* reveals significant heterogeneity in Chicagoland area*. 112<sup>th</sup> General Meeting of the American Society for Microbiology.
14. Carlson, T.\* , Nam, H.\* , Versland, L.\* , Rholl, D.\* , Nelson, J.A., Schau, M.D., and J.D. Topp (2012). *MLST analysis of *Borrelia* isolates from the Chicago Area*. 112<sup>th</sup> General Meeting of the American Society for Microbiology.
15. Topp, J.D., Nold, M., Abrams, E.S., Farnsworth, C.L., Geromanos, S., Askenazi, M., and J.C. Silva (2013). *Using orthogonal techniques for protein-peptide separation to generate comprehensive HDMSe mass spectral libraries from an *E. coli* model system*. 61<sup>st</sup> American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics.
16. C.M. Story and J.D. Topp (2013). *Promoting scientific literacy in pastors*. American Scientific Affiliation Annual Meeting.
17. Mason, S.D.\* , Sherratt, S.C.R.\* , Kruguer, S.M.\* , Muthersbaugh, M.\* , Topp, J.D., and G.S. Keller (2014). *Shifts in small-mammal abundance and Lyme disease infection rate at varying scales among four different New England habitat types*. 2014 Northeast Natural History Conference.
18. Kruguer, S.M.\* , Mason, S.D.\* , Keller, G.S., and J.D. Topp (2014). *Effects of habitat and vegetation on abundance of black-legged ticks (*Ixodes scapularis*) as Lyme disease carriers in Essex County, Massachusetts*. 2014 Northeast Natural History Conference.
19. Sherratt, S.C.R.\* , Mason, S.D.\* , Kruguer, S.M.\* , Muthersbaugh, M.\* , Vierra, E.\* , Keller, G.S., and J.D. Topp (2014). *Effects of forest fragmentation on reservoir abundance and the prevalence of Lyme disease-causing *Borrelia burgdorferi sensu stricto* in Essex County, Massachusetts*. 114<sup>th</sup> General Meeting of the American Society for Microbiology.
20. C.M. Story and J.D. Topp (2014). *Creating a course for pastors on science and faith*. 2014 BioLogos Evolution and Christian Faith Workshop.
21. Kruguer, S.\* , Mason, S., Keller, G.S., and J.D. Topp (2015). *Effects of landscape fragmentation, habitat, and vegetation on abundance of *Ixodes scapularis* as a Lyme disease carrier in Essex County, Massachusetts*. 2015 Experimental Biology Annual Conference.
22. J.D. Topp (2015). *Creating a course for pastors on science and faith*. Evolution and Christian Faith: A BioLogos Conference.

\* indicates undergraduate co-author

## THESES SUPERVISED

1. Jacob Ondrey (2010)

- Characterization of *Borrelia burgdorferi* isolated from Chicago area ticks using PCR and RFLP of the flagellin gene
2. Ken Hallenbeck (2012)  
The usefulness of a structurally minimal viral lysine methyltransferase as a hit-finding model for identifying inhibitors of homologous human lysine methyltransferases
  3. Bria Pelletier (2013)  
Determination of the optimal crosslink density for the durability of acrylic-titania composite photocatalytic materials
  4. Roland Griggs (2015)  
Nuclear fusion during early stage of microspore embryogenesis indicates chromosome doubling in wheat (*Triticum aestivum*)
  5. Samuel Mason (2015)  
A multi-scale analysis of the effect of habitat fragmentation on small mammal communities in Essex County, MA
  6. Samantha Kruguer (2015)  
Effects of landscape fragmentation, habitat, and vegetation on abundance of *Ixodes scapularis* as a Lyme disease carrier in Essex County, Massachusetts
  7. Rebecca Feeley (2016)  
Comparison of the microbiota of *I. scapularis* and their small mammal reservoir hosts in varying forest fragments
  8. Andrew Martin (2016)  
Post-translational modifications of Alsin upon IGF-1 signal transduction
  9. Derek Svendsen (2017)  
Identification of Alsin protein interactions
  10. Ryan Bradley (2017)  
Using CRISPR to study Alsin cell function
  11. Haley Callahan (2017)  
Analysis of tick and small mammal reservoir microbiomes

### **STUDENT MENTEE LOCAL/REGIONAL PRESENTATIONS**

1. Morrison, R. \*, Nelson, J., Schau, M., and J.D. Topp (2010). *Surveillance for the prevalence of Borrelia burgdorferi and Anaplasma phagocytophilum from Ixodes scapularis ticks in the greater Chicago area*. 4<sup>th</sup> Annual North Park University Student Research Symposium.
2. Cholewinski, M. \*, Topp, J.D., and M. Schau (2010). *Classification of Borrelia burgdorferi strains from the Chicagoland Area*. 4<sup>th</sup> Annual North Park University Student Research Symposium.
3. Meyers, M. \*, Schau, M., and J.D. Topp (2010) *Strain evaluation of Borrelia burgdorferi in the Chicagoland area using restriction fragment length polymorphism (RFLP) of the rrf-rrl intergenic spacer region*. 43<sup>rd</sup> Annual Associated Colleges of the Chicago Area Student Symposium.
4. Morrison, R. \*, Nelson, J., Schau, M., and J.D. Topp (2010). *Surveillance for the prevalence of Borrelia burgdorferi and Anaplasma phagocytophilum from Ixodes scapularis in the Chicago Region*. 43<sup>rd</sup> Annual Associated Colleges of the Chicago Area Student Symposium.

5. Ondrey, J.\*, Meyers, M.\*, Morrison, R.\*, Cholewinski, M.\*, Topp, J.D., and M. Schau (2010). *Characterization of Borrelia burgdorferi isolated from the Greater Chicago wooded areas*. 2010 Tri Beta District Convention, North Central Branch-1.
6. Savage, C.\*, Ardito, C.\*, Morrison, R.\*, Nelson, J., Topp, J.D., and Schau, M. (2011). *Surveillance for the presence of Anaplasma phagocytophilum in the Chicagoland area*. 2011 Tri Beta District Convention, North Central Branch-1. *Awarded 2<sup>nd</sup> Place Poster, Molecular Biology Division*.
7. Ardito, C.\*, Schau, M., and J.D. Topp. (2011). *Surveillance for the presence of Borrelia burgdorferi, Anaplasma phagocytophilum, and Babesia microti in the Chicago Area*. 5<sup>th</sup> Annual North Park University Student Research Symposium.
8. Nelson, T.\*, Schau, M., and J.D. Topp. (2011). *Molecular characterization of ospA and ospC genes in determining pathogenicity of Borrelia burgdorferi isolates collected in the Chicago area*. 5<sup>th</sup> Annual North Park University Student Research Symposium.
9. Koubsky, E. \*, Nelson, T.\*, Carlson, T.\*, Ardito, C.\*, Morrison, R.\*, Rholl, D., Topp, J.D., and M. Schau (2012). *OspC analysis of Borrelia isolates from the greater Chicago area*. 6<sup>th</sup> Annual North Park University Student Research Symposium.
10. Carlson, T.\*, Nam, H.\*, Koubsky, E.\*, Versland, L.\*, Schau, M., and J.D. Topp (2012). *MLST analysis of Borrelia isolates from the Chicagoland area*. 6<sup>th</sup> Annual North Park University Student Research Symposium.
11. Versland, L.\*, Nam, H.\*, Carlson, T.\*, Ondrey, J.\*, Schau, M., and J.D. Topp (2012). *MLSA of clpX, recG, and uvrA genes reveals Borrelia burgdorferi sensu stricto homogeneity in Chicago area ticks*. 2012 Gordon Undergraduate Research Symposium. *Awarded Most Outstanding Poster, Life Sciences Division*.
12. S. Lord\* and J.D. Topp (2012). *Identification of the domain(s) required for Alsin localization to autophagosomes*. 2012 Gordon Undergraduate Research Symposium.
13. H. Nam\* and J.D. Topp (2013). *MLSA and RFLP analysis reveals Borrelia burgdorferi sensu stricto homogeneity in Chicago area ticks*. 4<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi.
14. Yoon, J.\*, Gershman, E. \*, Topp, J.D., and C.M. Story (2013). *Production and selection of antibody-secreting cell lines with microengraving*. 2013 Gordon Undergraduate Research Symposium.
15. Getaneh, M.\*, Jonker, A. \*, and J.D. Topp (2013). *Eradicate a disease project: tuberculosis in Ethiopia and Chagas disease in Belize*. 2013 Gordon Undergraduate Research Symposium.
16. Stephan, J.\*, Mann, M.\*, Cunio, C. \*, Gehr, A. \*, and J.D. Topp (2013). *Identification of potentially novel marine Bacteria using MALDI-TOF MS and 16S rDNA sequencing*. 2013 Gordon College Undergraduate Research Symposium.
17. Mason, S. \*, Vierra, E. \*, Muthersbaugh, M. \*, Sherratt, S. \*, Kruguer, S. \*, Keller, G.S., and J.D. Topp (2013). *The effect of habitat edge type on relative abundance of the Lyme disease causing bacterium Borrelia burgdorferi in the small mammal reservoir population*. 2013 Gordon Undergraduate Research Symposium. *Awarded Most Outstanding Poster, Life Sciences Division*.
18. Kruguer, S.M. \*, Mason, S.D. \*, Keller, G.S., and J.D. Topp (2014). *Effects of habitat and vegetation on abundance of black-legged ticks (Ixodes scapularis) as Lyme disease carriers in Essex County, Massachusetts*. 5<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi.

19. Mason, S.D.\*, Sherratt, S.\*, Kruguer, S.M.\*, Muthersbaugh, M.\*, Topp, J.D., and G.S. Keller (2014). *Shifts in small mammal abundance and Lyme disease infection rate at varying scales amongst four different New England habitat types*. 5<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi.
20. Feeley, R.\*, Topp, J.D., and J. Kaufman (2016). *Comparison of the microbiota of I. scapularis and their small mammal reservoir hosts in varying forest fragments*. 2016 Endicott Senior Thesis II Conference.
21. A. Martin\* and J.D. Topp (2016). *Post-translational modifications of Alsin upon IGF-1 signal transduction*. 2016 Endicott Senior Thesis II Conference.
22. Bradley, R.\*, Topp, J.D., and W. Gatlin (2017). *Using CRISPR to study Alsin cell function*. 2017 Endicott Senior Thesis II Conference.
23. D. Svendsen\* and J.D. Topp (2017). *Identification of Alsin protein interactions*. 2017 Endicott Senior Thesis II Conference.
24. Callahan, H.\*, Topp, J.D., and J. Kaufman (2017). *Analysis of tick and small mammal reservoir microbiomes*. 2017 Endicott Senior Thesis II Conference.

### **MEETINGS/CONFERENCES ATTENDED**

1. 42<sup>nd</sup> Annual ASCB Meeting (2002)  
American Society for Cell Biology  
San Francisco, CA
2. 43<sup>rd</sup> Annual ASCB Meeting (2003)  
American Society for Cell Biology  
San Francisco, CA
3. 44<sup>th</sup> Annual ASCB Meeting (2004)  
American Society for Cell Biology  
Washington, D.C.
4. 11<sup>th</sup> Annual Meeting of the RNA Society (2006)  
RNA Society  
University of Washington  
Seattle, WA
5. AAAS Annual Meeting (2009)  
American Association for the Advancement of Science  
Chicago, IL
6. 69<sup>th</sup> Annual Meeting of the ASM, North Central Branch (2009)  
American Society for Microbiology  
University of Wisconsin-La Crosse  
La Crosse, WI
7. A Dialogue on Creation (2010)  
BioLogos-Gordon College Conference  
Wenham, MA
8. 70<sup>th</sup> Annual Meeting of the ASM, North Central Branch (2010)  
American Society for Microbiology  
Mankato State University  
Mankato, MN
9. Goshen Conference on Science and Religion (2011)

Goshen College

Goshen, IN

10. 112<sup>th</sup> General ASM Meeting (2012)  
American Society for Microbiology  
San Francisco, CA
11. CUR Conference (2012)  
Council for Undergraduate Research  
The College of New Jersey  
Ewing, New Jersey
12. CUR Dialogues (2013)  
Council for Undergraduate Research  
Washington D.C.
13. 61<sup>st</sup> ASM Conference on Mass Spectrometry and Allied Topics (2013)  
American Society for Mass Spectrometry  
Minneapolis, MN
14. Annual ASA Meeting (2013)  
American Scientific Affiliation  
Belmont University  
Nashville, TN
15. 33<sup>rd</sup> Annual Conference on the First-Year Experience (2014)  
National Resource Center  
San Diego, CA
16. Evolution and Christian Faith Conference (2014)  
BioLogos Foundation  
St. Catherine's College  
Oxford, UK
17. Joint Mathematics Meetings (2015)  
American Mathematical Society and Mathematical Association of America  
San Antonio, TX
18. 32<sup>nd</sup> Annual Academic Chairpersons Conference (2015)  
Kansas State University  
Austin, TX
19. Evolution and Christian Faith: A BioLogos Conference (2015)  
BioLogos  
Grand Valley State University  
Grand Rapids, MI
20. Biomedical Engineering Society Annual Meeting (2015)  
Biomedical Engineering Society  
Tampa, FL
21. AAC&U Annual Meeting: How Higher Education Can Lead—On Equity, Inclusive Excellence, and Democratic Renewal (2016)  
Association of American Colleges & Universities  
Washington, D.C.
22. STEM Solutions – The National Leadership Conference (2016)  
U.S. News  
Baltimore, MD

23. Biomedical Engineering Society Annual Meeting (2016)  
Biomedical Engineering Society  
Minneapolis, MN
24. Council of Chairs in Bioengineering and Biomedical Engineering Meeting (2016)  
Biomedical Engineering Society Meeting  
Minneapolis, MN

### **WORKSHOPS/SYMPOSIA ATTENDED**

1. 4<sup>th</sup> Annual Postdoctoral Symposium (2006)  
Postdoctoral Association  
UT Southwestern Medical Center  
Dallas, TX
2. 4<sup>th</sup> Annual ACCA Pedagogy Symposium (2008)  
Associated Colleges of the Chicago Area  
Lewis University  
Romeoville, IL
3. Teaching the Millennial Student (2009)  
Society for the Teaching of Psychology Online e-Workshop  
North Park University  
Chicago, IL
4. 42<sup>nd</sup> Annual ACCA Student Symposium (2009)  
Associated Colleges of the Chicago Area  
Lewis University  
Romeoville, IL
5. 3<sup>rd</sup> Annual Student Research Symposium (2009)  
North Park University  
Chicago, IL
6. 5<sup>th</sup> Annual ACCA Pedagogy Symposium (2009)  
Associated Colleges of the Chicago Area  
Lewis University  
Romeoville, IL
7. Academic Lab Safety and Liability Workshop (2010)  
Associated Colleges of the Chicago Area  
Dominican University  
River Forest, IL
8. 43<sup>rd</sup> Annual ACCA Student Symposium (2010)  
Associated Colleges of the Chicago Area  
Lewis University  
Romeoville, IL
9. 4<sup>th</sup> Annual Student Research Symposium (2010)  
North Park University  
Chicago, IL
10. The Chicago Infectious Disease Board Review (2010)  
Rush University Medical Center  
Chicago, IL



11. Fall ACCA Biology Seminar on Environmental Microbiology (2010)  
Associated Colleges of the Chicago Area  
Benedictine University  
Lisle, IL
12. 6<sup>th</sup> Annual ACCA Pedagogy Symposium (2010)  
Associated Colleges of the Chicago Area  
Lewis University  
Romeoville, IL
13. 44<sup>th</sup> Annual ACCA Student Symposium (2011)  
Associated Colleges of the Chicago Area  
Elmhurst University  
Elmhurst, IL
14. 5<sup>th</sup> Annual Student Research Symposium (2011)  
North Park University  
Chicago, IL
15. 45<sup>th</sup> Annual New England Society for Microscopy Fall Symposium (2011)  
Gordon College  
Wenham, MA
16. 3<sup>rd</sup> Annual Conference, North Shore Chapter of Sigma Xi (2012)  
Gordon College  
Wenham, MA
17. 29<sup>th</sup> Annual New England Society for Microscopy Spring Symposium (2012)  
Marine Biology Laboratory  
Woods Hole, MA
18. Undergraduate Research Symposium (2012)  
Gordon College  
Wenham, MA
19. Writing/Designing NSF Proposals (2012)  
University of Massachusetts Medical School  
Shrewsbury, MA
20. Undergraduate Research Symposium (2013)  
Gordon College  
Wenham, MA
21. 5<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi (2014)  
Endicott College  
Beverly, MA
22. Undergraduate Research Symposium (2014)  
Gordon College  
Wenham, MA
23. MA STEM Summit (2014)  
University of Massachusetts Donahue Institute  
Worcester, MA
24. 6<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi (2015)  
Gordon College  
Wenham, MA
25. Senior Thesis II Conference (2015)

- Endicott College  
Beverly, MA
26. Senior Thesis II Conference (2016)  
Endicott College  
Beverly, MA
  27. 2016 Massachusetts Project Kaleidoscope Regional Network Spring Meeting – Best Practices in STEM Education (2016)  
Westfield State University  
Westfield, MA
  28. 8<sup>th</sup> Annual Conference, North Shore Chapter of Sigma Xi (2017)  
Endicott College  
Beverly, MA
  29. Senior Thesis II Conference (2017)  
Endicott College  
Beverly, MA

### **RESEARCH STUDENTS/TRAINEES MENTORED**

1. Rebecca Morrison# (2009 – 2010)  
Identification of tick-borne pathogens
2. Monica Cholewinski# (2009 – 2010)  
Molecular fingerprinting of *Borrelia* in Chicago ticks
3. Matthew Meyers# (2009 – 2010)  
Molecular fingerprinting of *Borrelia* in Chicago ticks
4. Jakob Ondrey# (2009 – 2010)  
Molecular fingerprinting of *Borrelia* in Chicago ticks
5. Christina Savage# (2010 – 2011)  
Identification of tick-borne pathogens
6. Leigh Altizer# (2010 – 2011)  
Molecular fingerprinting of *Borrelia* in Chicago ticks
7. Carmelina Ardito# (2010 – 2011)  
Identification of tick-borne pathogens
8. Tyler Nelson# (2010 – 2011)  
Molecular fingerprinting of *Borrelia* in Chicago ticks
9. Paul Duffin, Ph.D. (2010 – 2011)  
Undergraduate teaching
10. Ben Sebuufu (2012)  
Recombinant DNA technology for studying Alsin
11. Spencer Lord (2012)  
Towards a role for Alsin in autophagocytosis
12. Luke Versland (2012)  
Molecular fingerprinting of *Borrelia* in Chicago area ticks
13. Christine Monaco (2012)  
Recombinant DNA technology for studying Alsin
14. HaYoung Nam (2012 –2013)  
Molecular fingerprinting of *Borrelia* in Chicago area ticks, Characterization of Alsin

15. Elyse Vierra## (2012 – 2013)  
Lyme disease pathogen detection in small mammals
16. Samuel Sherratt## (2012 – 2014)  
Lyme disease pathogen detection in small mammals
17. Samantha Kruguer## (2012 –2014)  
Lyme disease pathogen detection in ticks
18. Samuel Mason## (2012 –2014)  
Lyme disease reservoirs and forest fragmentation
19. Ean Mullins (2012 –2014)  
Characterization of Alsin
20. Lauren Horsley## (2013)  
Genotypic identification of mouse species
21. Zach Hatch## (2014)  
Genotypic identification of mouse species
22. Andrew Martin (2015 – 2016)  
Identification of Alsin post-translation modifications
23. Rebecca Feeley### (2015 – 2016)  
Analysis of tick and small mammal reservoir microbiomes
24. Chris Morrison### (2015 – 2016)  
Computational methods for tick microbiome analysis
25. Wayne Gatlin, M.S. (2015 – 2016)  
Real-time pathogen detection in ticks and small mammals
26. Derek Svendsen (2016 – 2017)  
Identification of Alsin protein interactions
27. Ryan Bradley (2016 – 2017)  
Using CRISPR to study Alsin cell function
28. Haley Callahan### (2016 – 2017)  
Analysis of tick and small mammal reservoir microbiomes
29. Maxwell Wickline (2017 – present)  
Identification of ALS-related protein interaction networks

# indicates co-mentored with Dr. Matthew Schau, North Park University

## indicates co-mentored with Dr. Greg Keller, Gordon College

### indicates co-mentored with Dr. Jessica Kaufman, Endicott College

## REFERENCES

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*Entrepreneur-in-Residence*  
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**Bruce F. Horazdovsky, Ph.D.**

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