Department of Biology
Northwestern College
Orange City, IA 51041

Business Phone: 712-707-7278
Email: stolsma@nwciowa.edu

Sara Sybesma Tolsma, Ph.D.

Education

Northwestern University, Department of Microbiology, Immunology, and Virology, Chicago, IL 60611 Ph.D. June 1995 GPA 3.9/4.0
Thesis advisor: Nöel Bouck. "Inhibition of Angiogenesis Controlled by Tumor Suppressor Genes: Thrombospondin-1 and Its Derived Peptides."

University of Iowa, Department of Biochemistry, Iowa City, IA 1884-1986. GPA 3.6/4.0

Northwestern College, Department of Biology, Orange City, IA B.A. Biology 1984 Magna cum laude GPA 3.8/4.0.

Professional Experience

Professor, Department of Biology, Northwestern College, Orange City, IA 51041. 2009 – present. Northwestern College Endowed Professorship 2016 – 2021.

Associate Professor, Department of Biology, Northwestern College, Orange City, IA 51041. 2001 – 2009.

Interim Associate Dean of Faculty and Staff Development, Northwestern College, Orange City, IA 51041. 2004 – 2006.

Assistant Professor of Biology, Department of Biology, Northwestern College, Orange City, IA 51041. 1995 – 2001.

Scheduled Course Rotation: Cell Biology, Genetics and Genomics, Immunology, Introduction to Human Anatomy and Physiology, First Year Seminar, Introduction to Human Anatomy, Science and Christian Faith.

Other Courses Taught: Biochemistry: Proteins and Metabolism, Introduction to the Life Sciences, Histology, Christian Thought in a Scientific World, Human Anatomy, Biochemistry: Molecular Genetics, General Biology Laboratory.

Institutional Service: Advise 20 students per year, Faculty Staff Welfare Committee 1996 – 1998, General Education Task Force 1998 – 1999, VPAA Search Committee 1999 – 2000, Faculty Development Committee 2004 – 2006, Dean's Council 2004 – 2006, Faculty Evaluation Task Force 2008, Academic Administration Task Force 2014 – 2015, Strategic Planning Committee 2013 – 2017, Academic Affairs Committee 2008 – 2011, 2015 – 2017 (Chair 2009/2010, 2016/2017), Faculty Status Committee 2001 – 2003, 2011 – 2013, and 2020 – present (Chair 2002/2003, Secretary 2013/2014).

Co-editor (with Jason Lief) of *Perspectives: A Journal of Reformed Thought*. 2014-present.

Subject book review editor (biology, ecology, genetics, evolution) of *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*. 2013-present.

Research Technician, Department of Microbiology, Immunology, and Virology, Northwestern University, Chicago, IL 1986 – 1989.

Grants

John Templeton Foundation Science and Religion Course Program. "Christian Thought in a Scientific World." Awarded 1996/1997 with B. Noordewier, H. Veldhuis, and D. Wacome.

Northwestern College Summer Faculty Research Grants 1996, 2002, 2003, 2008, 2009, 2010, 2011, 2012, 2015, 2016, 2017.

Northwestern College Lilly Faculty Fellow 2010

Northwestern College Endowed Research Fellowship (NERF) 2019

American Society for Microbiology (ASM) Conference Grant 2019

Publications

Abigail M. Bastian, Marcus J. Blankenspoor, Gideon K. Fynaardt, Sadie A. Gilmeister, Emily E. Hurley, Madison Jones, Erika J. McKenney, Alexa N. Olguin, Micah N. Rens, Garrett Snyder, Anneka E. Sterk, Sophie M. Swart, Alaena Trevino, Ashley N. Van Egdom, Morgan C. Veach, Kip Cullinan, Kaarina Van Berkum, Lauren R. Pavich, Krista Starr, Byron Noordewier, and Sara S. Tolsma, Complete Genome Sequences of Microbacterium Phages Clayda5 and Gshelby23 and Gordonia Phages Wrigley and Santhid, Microbiology Resource Announcements, submitted.

Kristina Sevcik, Peace Preston, Michaela Aulner, Byron Noordewier, and Sara S. Tolsma, Complete Genome Sequences of Cluster S Mycobacteriophages Beelzebub, Raela, and RedRaider77, Microbiology Resource Announcements, in preparation.

Annika Stecker, Steven Van Meeteren, Gracelyn Wager, Abigail Clarke, Jordyn Kramer, Lauren Pavich, Emily Schmidt, Krista Starr, Kaarina Van Berkum, Ashley Van Egdom, Sara S. Tolsma (2022) Exploring Gene Functions and Phage-Host Protein Interactions in Mycobacteriophage Island3, NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Blake M. Anderson, Abigail M. Clarke, Kip R. Cullinan, Lindsey J. Groen, Travis J. Grover, Kaytlyn E. Keeler, Benjamin S. Kingery, Jordyn L. Kramer, Noah M. Kryfka, Kaitlyn N. McCracken, Emilien A. Meray, Lane C. Mulder, Daniel A. Nordquist, Mitchell J. Oostra, Lauren R. Pavich, Dominick L. Pickard, Mitchell T. Rentschler, Annika G. Stecker, Ashley N. Van Egdom, Morgan C. Veach, Elizabeth Y. Heeg, Sara S. Tolsma (2022) Analysis of a Putative Promoter in Mycobacteriophage JacoRen57, NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Abigail M. Bastian, Marcus J. Blankespoor, Gideon K. Fynaardt, Sadie A. Gilmeister, Emily E. Hurley, Madison Jones, Erika J. McKenney, Alexa N. Olguin, Micah N. Rens, Garrett Snyder, Anneka E. Sterk, Sophie M. Swart, Chelsea L. Thurm, Alaena Trevino, Ashley N. Van Egdom, Morgan C. Veach, Lauren R. Pavich, Byron Noordewier, and Sara S. Tolsma (2022) Genomic Annotation of Bacteriophages Clayda5, GShelby23, Santhid, and Wrigley, NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Laricca Y. London, Mary A. Ayuk, Diana Effiom, Folasade Fashina, Briana J. Louis, Sara S. Tolsma, Adrian D. Allen, Leon A. Dickson, Somiranjan Ghosh, Ayele Gugssa, Hemayet Ullah, Glory B. Bassey, Lourds M. Fernando, Madison M. Moore, Jerome J. Oliver, Esohe G. Irabor,

Swagota D. Roy, Benedict K. Quagraine, Michael Smith, Howard University SEA-PHAGES Students, Winston A. Anderson, Courtney J. Robinson (2021) Complete Genome Sequences of Mycobacteriophages Dallas and Jonghyun, Microbiology Resource Announcements Vol. 10, No. 27 DOI: https://doi.org/10.1128/MRA.00304-21.

David M. Adair, Lindsey L. Craig, Keziah J. Knudson, Kaylee A. Maasdam, Kaarina M. Marttila, Katie M. Meyer, Alexa Olguin, Mitchell Rentschler, Emily Schmidt, April S. Van Tol, Samantha Blum, Byron Noordewier, and Sara S. Tolsma (2021) Genetic Annotation of Bacteriophages MScarn, Knocker, and Neos5. Iowa Academy of Science Annual Meeting (virtual), NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Riley Chartier, Abigail Clarke, Lindsey Groen, Marshall Kleinhesselink, Cassandra Koel, Madison Korthals, Jordyn Kramer, Garrett Raymon, Krista Riensche, Sadie Sandbulte, Annika Stecker, Daniel Strand, Kaytlin Wojciechowski, Ali Almail, Sara S. Tolsma (2021) Stormbreaker8 and A3Wally Bacteriophage Genome Annotations. Iowa Academy of Science Annual Meeting (virtual), NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Ali Almail, Samantha J. Blum, Lauren R. Pavich, Sara S. Tolsma (2021) Investigating Gene Functions in Mycobacteriophage Island3. Iowa Academy of Science Annual Meeting (virtual), NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Ali Almail, Noah M. Gritters, Colton Hage, Lauren R. Pavich, Dominick Pickard, Mitchell Rentschler, Ashley Van Egdom, and Sara S. Tolsma (2021) Elucidating Antiproliferative Mechanisms of Grapeseed, Guava, and Juniper Berry Extracts. Iowa Academy of Science Annual Meeting (virtual) and NWC Celebration of Research.

Ali Almail, Elizabeth Heeg, Byron Noordewier, and Sara S. Tolsma (2021) Exploring a Transcriptional Regulatory Region in Mycobacteriophage JacoRen57. Iowa Academy of Science Annual Meeting (virtual), NWC Celebration of Research and Annual SEA-PHAGES Symposium.

Deborah Jacobs-Sera, Lawrence A. Abad, Richard M. Alvey, Kirk R. Anders, Haley G. Aull,… Sara S. Tolsma, Philippos K. Tsourkas, … and Graham F. Hatfull (2020) Genomic diversity of bacteriophages infecting Microbacterium spp. PLOS ONE. June 18, 2020. https://doi.org/10.1371/journal.pone.0234636.

Garwood, K and S.S. Tolsma [Review of the book *The Perfect Predator: A Scientist's Race to Save Her Husband from a Deadly Superbug* by Steffanie Strathdee and Thomas Patterson] *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, submitted.

Tolsma, S.S. (2020) [Review of the book *Fearfully and Wonderfully: The marvel of bearing God's image* by Paul Brand and Philip Yancey] *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 72(2):116-117.

Tolsma, S.S. (2020) [Review of the book *Jesus, Beginnings, and Science: A Guide for Group Conversation* by David A. Vosburg and Kate Vosburg] *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 72(2):56-57.

Tolsma, S.S. (2019) [Review of the book *Dreamers, Visionaries, and Revolutionaries in the Life Sciences* edited by Oren Harman and Michael R. Dietrich] *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 71(4):260-261.

Lief, J. and Tolsma, S.S. (2019) *Jesus Loves You and Evolution is True: Why youth ministry needs science*. Fortress Press.

Tolsma, S.S. (2019) Science in Church, *God and Nature*. https://godandnature.asa3.org/tolsma-science-in-church.html.

Tolsma, S.S. (2019) What I Wish Christians Knew About Science/Scientists. *Perspectives: A Journal of Reformed Thought*.

Sevcik, Kristina M., Byron Noordewier, and Sara S. Tolsma (2019) Investigating Our Phage-Filled World: Discovery, Annotation, and Antibodies, *Annual SEA-PHAGES Symposium*, Janelia Research Campus, Ashburn, VA.

Tolsma, S.S. (2019) [Review of the book *The Radium Girls: The dark story of America's shining women* by Kate Moore]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 71(1):56-57.

Almail, A., Dorhout, K., Johnson, J., Jorgensen, H., and Tolsma, S.S. (2019) Annotation of Two Soil Mycobacteriophages: JacoRen57 and DrLupo, Iowa Academy of Science Annual Meeting, Cedar Falls, IA and Northwestern College Celebration of Research.

Aulner, M, Preston, P.A., Sevcik, K., Jorgensen, H., and Tolsma, S.S. (2019) Annotation of Four Novel Mycobacteriophages: Beelzebub, Raela, RedRaider77, and Antonia, Iowa Academy of Science Annual Meeting, Cedar Falls, IA and Northwestern College Celebration of Research.

Kelly, J., Borchers, C., Aiyegbeni, P., Boote, P., Buren, B., DeKruyff, K., Geraets, E., Le, C., Mercer, R., Mithelman, C. Muyskens, H., Pun, R., Rosson, Z., and Tolsma, S.S. (2019) Anti-proliferative Effects of Grapeseed, Juniper Berry, and Turmeric Extracts on Cells In Vitro, Iowa Academy of Science Annual Meeting, Cedar Falls, IA and Northwestern College Celebration of Research

Emily Geraets and Sara Tolsma (2019) Investigating mycobacteriophage cluster relationships: Characterization of anti-mycobacteriophage antibodies, Northwestern College Celebration of Research

Aulner, M., Preston, P., Sevcik, K., and S.S. Tolsma (2019) Beelzebub, Raela, RedRaider11, and Antonia: Three Cluster S Mycobacteriophages and a B1 Cluster Phage, *Iowa Academy of Science Annual Meeting*, University of Northern Iowa, Cedar Falls, IA.

Almail, A., K. Dorhout, J. Johnson, H. Jorgensen, and S.S. Tolsma (2019) Annotation of Two Soil Mycobacteriophages: JacoRen57 and DrLupo, *Iowa Academy of Science Annual Meeting*, University of Northern Iowa, Cedar Falls, IA.

Kelly, J., Borchers, C., Aiyegbeni, P., … and S.S. Tolsma (2019) Anti-proliferative Effects of Grapeseed, Juniper Berry, and Turmeric Extracts on Cells In Vitro, *Iowa Academy of Science Annual Meeting*, University of Northern Iowa, Cedar Falls, IA.

Tolsma, S.S. (2019) [Review of the book The*Radium Girls: The dark story of America's shining women* by Kate Moore]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 71(1):56-57.

Tolsma, S. S. (2018) [Review of the book *Evolution: Scripture and nature say yes!*, by Denis O. Lamoureaux]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, 70(3):204.

Borchers, C., Muyskens, B., Noordewier, B., Becker, J., . . . and Tolsma, S. S. (2018). Production of Polyclonal Antibodies Against Structural Proteins of Viruses from Different Clusters Accompanied by Annotation of the Viral Genomes. *HHMI SEA-PHAGES Annual Symposium*. Ashburn, VA.

Becker, J., Borchers, C., Dorhout, K., Epp, H., Geraets, E.,…and Tolsma, S.S. (2018). Production of Anti-Mycobacteriophage Protein Antibodies in Balb/c Mice. *Iowa Academy of Science Annual Meeting*. Buena Vista University, Storm Lake, IA.

Borchers, C., Eide, N., Geraets, E., Hage, C., Jenness, J.,….and Tolsma, S.S. (2018). Annotation of Three Novel Soil Mycobacteriophages: Sibs6, Roots515, and CBorch11. *Iowa Academy of Science Annual Meeting*. Buena Vista University, Storm Lake, IA.

Muyskens, B., Borchers, C., Noordewier, B., and Tolsma, S. S. (2018). Using PCR to Confirm and Revise Mycobacteriophage Genome Annotations. *Iowa Academy of Science Annual Meeting*. Buena Vista University, Storm Lake, IA.

Hanauer, D. I., Graham, M. J., Betancur, L., Bobrownicki, A., Cresawn, S. G., Garlena, R. A., … Hatfull, G. F. (2017). An inclusive Research Education Community (iREC): Impact of the SEA-PHAGES program on research outcomes and student learning. Proceedings of the National Academy of Sciences. https://doi.org/10.1073/pnas.1718188115

Furlong, L., Heeg, E. Y., & Tolsma, S. S. (2017). The wide, wild world of sex. *Perspectives: A Journal of Reformed Thought*, Sept/Oct, (pp. 6-11).

Tolsma, S. S. (2017). Ursula Goodenough, John Templeton Foundation, Jean-Baptiste Lamarck. In P. Copan, T. Longman, C. L. Reese, & M. G. Strauss (Eds.), *Dictionary of Christianity and Science* (pp. 336, 394-5, 405). Grand Rapids, MI: Zondervan.

Olhausen, M. L., Tolsma, J. S., Beaton, S., Becker, J., Blankespoor, A., Bruinsma, S., . . . Tolsma, S. S. (2017). Antiproliferative Effects of Common Plant Extracts on Tumor Cells In Vitro. *Iowa Academy of Science Annual Meeting*.

Schutt, A., Inge, K., Bruinsma, S., Jeltema, J., Muro, J., Preston, P., . . . Tolsma, S. S. (2017). Phage Hunting in the Midwest Prairie. *HHMI SEA-PHAGES Annual Symposium*.

Doyle, E., Chia, C., McKinney, A., and Tolsma, S. (2017) A Genome in a Day: Lessons from the Updawg Genome Annotation Hackathon. *HHMI SEA-PHAGES Annual Symposium*.

Tolsma, S. S. (2017). [Review of book *A Little Book for New Scientists*, by Reeves and Donaldson]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, *69*.

Fleischacker, C. L., Segura-Totten, M., SEA-PHAGES 2016 Bioinformatics Workshop, Garlena, R. A., Jacobs-Sera, D., Pope, W. H., . . . Hatfull, G. F. (n.d.). Genome Sequence of Mycobacterium Phage CrystalP. *Genome Announcements*, July 2017 5:e00542-17.

Tolsma, S. S. (2016). Integrating Science and Faith. *Perspectives: A Journal of Reformed Thought*.

Tolsma, S. S. (2016). [Review of the book *How I Changed My Mind About Evolution: Evangelicals Reflect on Faith and Science*, by Applegate and Stump]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, *68*.

Feuchtenberger, M., Hughes, C., Komatsu, M., Linn, C., Marker, K., Mudiavita, S., . . . Tolsma, S. S. (2015). In Vitro Anti-Tumor Activity of Common Plant Extracts and their Suspected Active Chemical Agents. *Iowa Academy of Science Annual Meeting*.

Schutt, A., Stricklin, E., Ten Haken, B., Tolsma, J. S., Furlong, L., & Tolsma, S. S. (2015). Analysis of Alternative Storage Conditions for DNA Recovery from Field Samples. *Kansas State Ecological Genomics Symposium*.

Tolsma, S. S. (2014). [Review of the book *Four Views on the Historical Adam*, by Barrett and Caneday]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, *66*(03), 191-192.

Tolsma, S. S. (2013). [Review of the book *Creating Life in the Lab: How new discoveries in synthetic biology make a case for the creator*, by Fazale Rana]. *Perspectives on Science and Christian Faith: A Journal of the American Scientific Affiliation*, *65*(01), 58-59.

Van Kalsbeek, D. G., Sterk, G., & Tolsma, S. S. (2013). The Effects of Chocolate on Exercise Benefits in Rats. *Iowa Academy of Science Annual Meeting*.

Tolsma, S. S. (2012). Questions of Faith. *RCA Today*.

Tolsma, S. S. (2012). Scientists as Members of the Body of Christ: Expanding the Scope of Adult Discipleship. *American Scientific Affiliation Annual Meeting*.

Locker, D., Peterson, J., Furlong, L., & Tolsma, S. S. (2011). Assessing the Genetic Relationships between Mayfly (*Baetis*) Populations. *Iowa Academy of Science Annual Meeting*.

Tolsma, S. S., Furlong, L., Locker, J., Wieking, B., Kleinhesselink, J., Levion, L., & Parsons, J. (2010). Assessing the Genetic Relationships between Mayfly (*Baetis*) Populations. *Iowa Academy of Science Annual Meeting*.

Tolsma, S. S. (2008). Homegrown Goodness. *The Classic*.

Tolsma, S. S. (2004). God's Word to All. *The Church Herald*.

Tolsma, S. S. (1999). My Genes Made Me Do It! *Perspectives: A Journal of Reformed Thought*.

Wagenaar, H., Starkenburg, S., Eppinga, R., & Tolsma, S. S. (1998). Determination of Capillary Density in Rat Skeletal Muscle in Response to Endurance Training. *Iowa Academy of Science Annual Meeting*.

Eppinga, R., & Tolsma, S. S. (1997). Determination of the Mechanism of Increased Capillary Density in Endurance-trained Skeletal Muscle. *Iowa State Symposium on the Cell Cycle*.

Tolsma, S. S., Stack, M. S., & Bouck, N. P. (1997). Lumen Formation and Other Angiogenic Activities of Cultured Capillary Endothelial Cells are Inhibited by Thrombospondin-1. *Journal of Microvascular Research*, *54*, 13-26.

Veldhius, H., Noordewier, B., Tolsma, S. S., & Wacome, D. (1997). Christian Thought in a Scientific World. *Templeton Conference, Oxford, England*.

Dawson, D. W., Tolsma, S. S., Volpert, O. V., Polverini, P. J., & Bouck, N. P. (1995). Retinoblastoma Gene Expression Alters Angiogenic Phenotype. *American Association for Cancer Research*.

Tolsma, S. S., & Noordewier, B. (1995). Discover DNA: An Introductory Workshop. *Iowa Space Grant Conference*.

Volpert, O. V., Tolsma, S. S., Pellerin, S., Fiege, J.-J., Chen, H., Mosher, D. F., & Bouck, N. P. (1995). Inhibition of Angiogenesis by Thrombospondin-2. *Biochemical and Biophysical Research Communications*, *217*, 326-332.

Tolsma, S. S., Volpert, O., & Bouck, N. P. (1994). TSP-1 and its Peptides Block Angiogenesis by Making Endothelial Cells Refractory to Stimuli and by Enhancing Differentiation. *Journal of Cellular Biochemistry*, *18A*, 335.

Tolsma, S. S., Volpert, O. V., Lai, C. K., Liu, A., & Bouck, N. P. (1994). Anti-angiogenic Activity of Thrombospondin-1 and its Peptides. *American Society for Cell Biology*.

Tolsma, S. S., Cohen, J. D., Erlich, L. S., & Bouck, N. P. (1993). Transformation of NIH/3T3 by H-ras is Accompanied by Loss of Suppressor Activity. *Experimental Cell Research*, *205*, 232-239.

Tolsma, S. S., Volpert, O. V., Good, D. J., Polverini, P. J., Frazier, W. F., & Bouck, N. P. (1993). Peptides Derived from Two Separate Domains of the Matrix Protein Thrombospondin-1 have Anti-Angiogenic Activity. *Journal of Cell Biology*, *122*, 497-511.

Frazier, W. A., Kosfeld, M. T., Murphy-Ullrich, J. E., Gurusiddappa, S., Hood, M., Tolsma, S. S., . . . Bouck, N. P. (1992). Bioactive Peptides from Multiple Domains of Thrombospondin. *American Society for Cell Biology*.

Tolsma, S. S., Polverini, P. J., & Bouck, N. P. (1992). Human Tumor Lines Reverted for Tumoriginicity by Tumor Suppressor Genes Begin to Secrete Inhibitors of Angiogenesis. *AACR Conference on Normal and Neoplastic Growth and Development*.

Bouck, N. P., Polverini, P. J., Tolsma, S. S., Frazier, W. A., & Good, D. J. (1991). Tumor Suppressor Gene Control of Angiogenesis. *Keystone Symposium*.

Tolsma, S. S., Fung, Y. K., Huang, G. S., Polverini, P. J., & Bouck, N. P. (1991). RB-1 Expression Abrogates the Angiogenic Phenotype of Osteosarcoma Cells. *Proceedings of the American Association for Cancer Research*, *337*, p. 68.

Tolsma, S. S., Madsen, E. L., Chmiel, J., Martin, A. O., & Bouck, N. P. (1991). Diagnostic Ultrasound is Unable to Enhance the Rate of Neoplastic Transformation in Cultured Mammalian Cells. *Journal of Ultrasound in Medicine*, *10*, 637-642.

Tolsma, S. S., Erlich, L., Cohen, J., & Bouck, N. P. (1988). Inability of the Mutated ras Oncogene to Maintain Transformation in NIH x NIH Hybrids. *Proceedings of the American Association of Cancer Research*, *29*, p. 465.

Tolsma, S. S., Thomas, E., Bauer, K. D., & Bouck, N. P. (1988). Genetic Assessment of the Strength of a Cancer Suppressor Gene in Hamster Cells. *Cancer Research*, *48*, 46-51.

Weitzman, S., Schmeichel, C., Turk, P., Stevens, C., Tolsma, S. S., & Bouck, N. P. (1988). Phagocyte Mediated Carcinogenesis: DNA from Phagocyte-Transformed C2H10T1/2 Cells Can Transform NIH/3T3 Cells. *Membrane in Cancer Cells: Annals of NY Academy of Sciences*, *551*, 103-110.

Weitzman, S., Stevens, C., Turk, P., Schmeichel, C., Tolsma, S. S., & Bouck, N. P. (1988). DNA from Phagocyte-Transformed C3H10T1/2 Cells Transforms NIH/3T3 Cells. *Proceedings of the NY Academy of Science*.

GenBank Entries

Poet,H.T., Blackburn,C.G., Fisher,M.R., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Microbacterium phage Gingerbug, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/ON970592

Berkes,C.A., Richard,M.S., Arseneau,E.M., Vance,A., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Mycobacterium phage Austelle, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/2289699887

Blackburn,C.G., Fisher,M.R., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Microbacterium phage HerculesXL, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/2288709300

Dodgen,S.D., Stowe,M., Coleman,S.T., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Microbacterium phage Pavlo, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/OP068333.1

Heyne,R., Ingebretsen,K., Nowak,M., Chia,C.P., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Gordonia phage KappaFarmDelta, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/2289699342

Scherer,A.E., Alnozaily,A., Amadi,D., Arbab,Z.A., Atri,S.N., Carter,T.J., Elbackush,N.A., Ghanbari-Martinez,R.M., Jacoby,M.E., Kruel,A., Lass,K.C., Raburn,S.A., Zakari,M., Braverman,J.L., Makula,M.N., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Gordonia phage Rumi, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/ON970611

Amend,A.M., Bifone,J.P., Brewer,J.C., Denton,M.N., Gilbert,E.B., Grimm,A.C., Hogan,J.M., Kelley,R.M., Kelly-Brooner,L.J., Mukerji,J.A., Osterhoudt,M., Senn,C.R., Smith,B.R., Stillwell,O.G., Vo,J., Watt,D.K., Connerly,P.L., Rueschhoff,E., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Gordonia phage Survivors, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/ON970576.1

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Okorie,V.C., Abass,R.O., Amadi,D.O., Kadiri,O.A., Sekoni,Z.A., Oluwafemi,J.O., Olubajo,A.F., Makinwa,T.M., Olaiya,S.O., Owoeye,T.L., Ebitigha,J.E., Olaore,O., Odunsi,A., Bamisaye,S.D., Akinyemi,N.M., Nsa,I.Y., Egwuatu,T.O., Oyetibo,G.O., Ilori,M.O., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Mycobacterium phage McGee, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/ON637764

Bono,K.A., Baumgartner,B.M., Mcintosh,D.R., McKenna,C., Theoret,J.R., Yoon,E.J., Windsor,E.J., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F. (2022) Mycobacterium phage JorRay, complete genome. https://www.ncbi.nlm.nih.gov/nuccore/ON637765

Bastian,A.M., Blankespoor,M.J., Fynaardt,G.K., Gilmeister,S.A., Hurley,E., Jones,M., Mckenney,E.J., Olguin,A.N., Rens,M.N., Sterk,A.E., Swart,S.M., Thurm, C.L., Trevino,A., Van,E.A., Veach,M.C., Pavich,L.R., Tolsma,S., Garlena,R.A., Russell,D.A., Jacobs-Sera,D. and Hatfull,G.F.

(2022) Gordonia phage Santhid, complete genome.
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Selected Presentations

Tolsma, Sara S. and Jason Lief, Jesus Loves You and Evolution is True: Why Youth Ministry Needs Science, American Scientific Affiliation Annual Meeting, July 2019, Wheaton College

Tolsma, S. S. (2015, August 20). *Epistemic Hubris, Epistemic Humility, and Epistemic Hope*. Speech presented at Northwestern College Convocation, Christ Chapel, Orange City, IA.

Tolsma, S. S. (2010). Genetic Technologies: Christians Learning and Dialoging Together. *American Reformed Church*.

Tolsma, S. S. (2010). Individuals and Families Caring for the Environment: Putting Biblical Principles into Practice. *Center for Public Justice*.

Tolsma, S. S. (2003). Stem Cells: What are they; Where do they come from; and why are they important? *Putting Science in its Place: Discovery and Responsibility 22nd Annual Critical Issues Symposium*.

Tolsma, S. S., & Mathonnet-Vanderwel, S. (2003). The Creation and Use of Human Embryonic Stem Cells. *RCA Christian Action Commission Forum*.

Tolsma, S. S. (2002). Genetic Technologies: Questions, Challenges, and Conversation. *RCA General Synod Forum*.

Tolsma, S. S. (2000). Genetic Testing and Screening. *New Genetics: Issues in Science, Faith, and Ethics, RCA Christian Action Commission*.

Engle, M., & Tolsma, S. S. (1999). Neovascularization in Response to Endurance Training in Rats. *CMA Biology/Chemistry Seminar*.

Wagenaar, H., Starkenburg, S., Eppinga, R., & Tolsma, S. S. (1998). Determination of Capillary Density and the Presence of Vascular Endothelial Cell Growth Factor in Rat Skeletal Muscles in Response to Endurance Training. *CMA Biology/Chemistry Seminar*.

Eppinga, R., & Tolsma, S. S. (1997). Determination of the Mechanism of Increased Capillary Density in Endurance-Trained Skeletal Muscle. *CMA Biology/Chemistry Seminar*.

Memberships

Iowa Academy of Science (2008—present).
American Scientific Affiliation (2012—present).
American Society for Microbiology (2016—present).

Honors and Awards

Trainee, NRSA Biochemistry, Molecular Biology, and Cell Biology Training Grant, Northwestern University 1990 – 1993.

National Student Research Forum, Northwestern University Student Representative 1994

Gramm Travel Fellowship Award, Robert Lurie Cancer Center, Northwestern University 1994.

Northwestern College Teaching Excellence Award. Finalist 2001. Recipient 2015.

Sabbatical Leave Awarded 2003/2004 and 2019.

Northwestern College Endowed Professor of Biology 2016-2021.

Northwestern College Excellence in Faith and Learning Award 2021.

American Scientific Affiliation Fellow. 2017 – present.

HHMI-SM*ART (SEA-PHAGES Mycobacteriophage Annotation Review Team) Scholar 2018 – present.

Community and Church Service

Member, American Reformed Church, Orange City, IA. Adult Sunday School Teacher, Liturgist, BLAST Teacher, F3 Teacher, Middle School Youth Group Leader, High School Youth Group Leader, High School Sunday School Teacher, Co-chair Pastor Search Committee, Discipleship Commission, Creation Care Coordinator, SERVE Team Member, Elder, KNOW Team Leader. 1996 – present.

Member, Orange City Tulip Festival Steering Committee 1996 – 1998.

Member, Orange City Day Care Board of Directors 1997 – 2003.

Member, Christian Action Commission, Reformed Church in America 1999 – 2005.

Member, New Brunswick Theological Seminary Board of Directors 2007 – 2012.

Member, East Sioux Classis Educational Committee, Reformed Church in America 2016 – present.

Personal

Husband: Jeff Tolsma
Children: Ellen Christina (b. 1990), Joseph Stanten (b. 1995), Daniel Jeffrey (b. 1998)