

CURRICULUM VITAE

Lauren Sallan

Primary Appt: Earth & Environmental Science
Secondary Appt: Biology
University of Pennsylvania
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EDUCATION

2012	Ph.D.	Integrative Biology	<u>University of Chicago</u>
2009	S.M.	Organismal Biology	<u>University of Chicago</u>
2007	M.S.	Biological Sciences	<u>Florida Atlantic University</u>
2003	B.S.	Biology, <i>cum laude</i> .	<u>Florida Atlantic University</u>

PROFESSIONAL POSITIONS

2017-	Martin Meyerson Assistant Professor in Interdisciplinary Studies	<u>University of Pennsylvania</u>
2014-	Assistant Professor Primary: Earth & Environmental Science Secondary: Biology	<u>University of Pennsylvania</u>
2012-2014	Michigan Fellow/Assistant Professor Ecology and Evolutionary Biology	<u>Michigan Society of Fellows / University of Michigan</u>

OTHER POSITIONS

2019-	TED Senior Fellow	<u>TED</u>
2017-	TED Fellow	<u>TED</u>

MANUSCRIPTS

***Corresponding/Senior Author. ^Trainee**

In Prep/Review

Sime, J.^, Li, B.^ Wyman, J.^, and L. Sallan* Testing the Ecomorphological Rules that Govern Trait Plasticity in Fishes.

Sime, J.^, Chang, J., Brown, J., Smith, S. A., Alfaro, M., and L. Sallan* Imbalance and Persistence at Low Diversity are Pervasive Across the Tree of Life.

Sallan, L.* , Kim, J.^ Alahari, A.^, Wyman, J.^, Li, B.^, Feldman, H.^, Sutton, L.^, and I. J. Sansom. (In Prep) Early Innovation and Repeated Convergence in Fish Ecomorphology Across Time and Space.

Sime, J.^ and L. Sallan* (In Prep) New Devonian Ray-finned Fishes Reveal The Roles of Biogeography and Habitat in Early Fish Diversification.

Sallan, L.* (In Prep) The Interoperculum and the Origins of Novel Feeding Modes in Ray-finned Fishes.

Carter, A.^, Dodson, P., Hsieh, T., and L. Sallan.* (Under Review) Early Amphibians Evolved Distinct Vertebrae for Habitat Invasion.

Published

- Sallan, L.*** 2020. Evolution: Spinal Innovation Enabled by Genome Duplication. *Current Biology* 30: R1006-R1008.
- Stack, J.^**, Hodnett, J.-P., Lucas, S., and **L. Sallan***. 2020 *Tanyrhinichthys mcallisteri*, a Long-rostrumed Pennsylvanian Ray-finned Fish (Actinopterygii), and the Simultaneous Appearance of Novel Ecomorphologies in Late Palaeozoic Fishes. *Zoological Journal of the Linnean Society*. Doi: 10.1093/zoolinnean/zlaa044
- Sallan, L.***, Friedman, M., Sansom, R. S., **Bird, C.^**, and I. J. Sansom.* 2018 The Nearshore Cradle of Early Vertebrate Diversification. *Science* **362**: 460-464. *Perspective by Catalina Pimiento* (362: 402-403),
- Stack, J.^** and **L. Sallan***. 2018 An Examination of the Devonian Fishes of Michigan. *PeerJ* **6**:e5636
- Rabosky, D.*, Chang, J., Title, P., Cowman, P., **Sallan, L.**, Friedman, M., Kashner, K., Garilao, C., Near, T., Coll, M., and M. Alfaro*. 2018 An Inverse Latitudinal Gradient in Speciation Rate for Marine Fishes. *Nature* 559: 392-395.
- Sallan, L.***, Giles, S., Sansom, R., **Clarke, J.^**, Johanson, Z., Sansom, I., and P. Janvier. 2017 The ‘Tully Monster’ is not a vertebrate: convergence, characters and taphonomy in Paleozoic problematic animals. *Palaeontology* **60**: 149-157. *Palaeontology Most Downloaded Paper 2017-2018*.
- Majtanova, Z., Symonova, R., Rodriguez, L. A., **Sallan, L.** and P. Rab*. 2017 “The ‘Holostei versus Halecostomi’ problem: insight from cytogenetics of ancient non-teleost actinopterygian fish, the bowfin *Amia calva*.” *Journal of Experimental Zoology B* **328**: 620-628.
- Sallan, L.*** 2016. Fish ‘tails’ result from outgrowth and reduction of two separate ancestral tails. *Current Biology* **26**: R1224-R1225
- Sallan, L.*** and **A. K. Galimberti^**. Body-Size Reduction in Vertebrates Following the End-Devonian Mass Extinction. *Science* **350**: 812-815. *Perspective by Peter Wagner* (350: 736-737)
- Sallan, L.*** 2014 Major Issues in the Origins of Ray-finned Fish (Actinopterygian) Biodiversity. *Biological Reviews* **89**: 950-971.
- Sallan, L.*** and M. Coates. 2014 The Long-Rostrumed Elasmobranch *Bandringa* Zangerl, 1969 and Taphonomy within a Carboniferous Shark Nursery. *Journal of Vertebrate Paleontology* **34**: 22-33.*
- Sallan, L.*** and M. Coates. 2013 Styracopterid (Actinopterygii) Ontogeny and the Multiple Origins of Post-Hangenberg Deep-bodied Fishes. *Zoological Journal of the Linnean Society* **169**: 156-199.
- Sallan, L.*** 2012 Tetrapod-like Axial Regionalization in an Early Ray-finned Fish. *Proceedings of the Royal Society B* **279**: 3264-3271.
- Friedman, M.* and **L. Sallan**. 2012. Five Hundred Million Years of Extinction and Recovery: a Phanerozoic Survey of Large-Scale Diversity Patterns in Fishes.” *Palaeontology* **55**: 707-742* *Summary by Mike Benton* (56: 1-7).
- Sallan, L.*** and M. Friedman. 2012. Heads or Tails: Staged Diversification in Vertebrate Evolutionary Radiations.” *Proceedings of the Royal Society B* **279**: 2025-2032.

Sallan, L.*, Kammer, T., Ausich, W. and L. Cook. 2011 Persistent Predator-Prey Dynamics Revealed by Mass Extinction.” *Proceedings of the National Academy of Sciences* **108**: 8335-8338.

Sallan, L.* and Coates, M. 2010 End-Devonian Extinction and a Bottleneck in the Early Evolution of Modern Jawed Vertebrates. *Proceedings of the National Academy of Sciences* **107**: 10131-10135.

AWARDS AND HONORS

- 2019 NSF CAREER Award
- 2019 TED Senior Fellow (1 of 10 worldwide)
- 2018 Distinguished Service Award for Early Achievement
University of Chicago, Biological Sciences Division Alumni Award
- 2018 Grant for Faculty Mentoring Undergraduate Research
CURF, Provost’s Office, University of Pennsylvania
- 2017- Martin Meyerson Assistant Professor in Interdisciplinary Studies
(Endowed Chair)
- 2017 TED Fellow (1 of 15 worldwide)
- 2017 Penn 60-Second-Slam Audience Choice
- 2015 Stensio Award for top early career paleoichthyologist,
13th International Symposium on Early Vertebrates/Lower Vertebrates
- 2015 Taylor & Francis Award for best article in the
Journal of Vertebrate Paleontology, 2nd Place.
Society of Vertebrate Paleontology
- 2015 Proceedings B Top Reviewer for 2014
Royal Society Publishing
- 2010 President’s Prize, Honourable Mention for best presentation.
Palaeontological Association.
Annual Meeting, Ghent, Belgium. December 17-20, 2010.
- 2009 Sylvester-Bradley Award
Palaeontological Association
- 2009 Raney Award
American Society of Ichthyologists and Herpetologists
- 2009 Student Presentation Award
Geological Society of America, North-Central Section.
43rd Annual Meeting. Rockford, IL. April 2-3, 2009

GRANTS

Awarded

- 2019 NSF CAREER 1846777: “Determining Distinct Triggers of Mass Extinction and Diversification in Fishes” (PI Sallan; 5/1/19-4/31/24)
- 2018 CURF Grant for Faculty Mentoring Undergraduate Research
- 2013 Matthew Research Grant,
New Brunswick Museum
- 2013 NERC: Tetrapod World: evolution, environment and diversity.
(Project Partner)
- 2012 Michigan Fellowship

- 2010 Michigan Society of Fellows, University of Michigan
NSF DDIG
 “DISSERTATION RESEARCH: The Consequences of Global Events on Vertebrate Biodiversity: the Paleozoic Actinopterygian Radiation.”
- 2009 National Science Foundation
N. Gary Lane Student Research Award
- 2009 Paleontological Society
Earth Science Student Research Grant
 Evolving Earth Foundation

Submitted/In Prep

- Templeton Foundation: Ideas Challenge. Using ‘Big Data’ to Reveal the Hidden Origins of ‘Living Fossils.’
- NSFGEO-NERC: Collaborative Research: the First Actinopterygian ‘Adaptive Radiation’: Integrative Fossils, Function and Phylogeny to Illuminate Innovation in the Post-Extinction World. (Senior Personnel; Lead PI Matt Friedman, Michigan).
- NERC Large Grant: Biological Innovation and the Origin of Modern Ecosystems (BIOME) (Project Partner; Lead PI Laura Porro, UCL).
- NSF BIO: Testing Ecomorphology and Functional Trends in Limbless Vertebrates to Determine the Limits of Convergence. (PI Sallan).

SERVICE

- 2020- Biology Graduate Group Admissions and Recruitment Committee, University of Pennsylvania
- 2018 Organizer, Geobiology Symposium, University of Pennsylvania
- 2017-2018 Organizer, Geoscience Colloquium Series, University of Pennsylvania
- 2016- Associate Editor, *Journal of Vertebrate Paleontology*
- 2015 SAS Planning Group on Quantitative Explorations of Evolving Systems, University of Pennsylvania.
- 2014- Education and Outreach Committee, Paleontological Society.
- 2013-2017 Program Committee, Society for Vertebrate Paleontology
- 2013 Co-Chair, Organizing Committee, 2013 Early Career Scientists Symposium “Macroevolution: Fossils, Frameworks and Phylogenies.” University of Michigan
- 2013-2014 Reviewer, Proquest Distinguished Dissertation Award
- 2013 Reviewer, Tickle Award, UM Museum of Zoology
- 2011-2012 Organizer, “Fish Group” biweekly interdepartmental/interdisciplinary seminar series, University of Chicago

Contributing Member: Paleobiology Database (PBDB).

Manuscript Reviews: Nature, Science, Proceedings of the National Academy of Science (Guest Editor), Nature Communications, Science Advances, Current Biology,

Proceedings of the Royal Society B, Nature Ecology and Evolution, Geology, Biological Reviews, BMC Evolutionary Biology, Biology Letters, Paleobiology, Palaeontology, Journal of Vertebrate Paleontology, American Naturalist, Systematic Biology, Evolution, Oecologica, eLife, PeerJ, Scientific Reports, PLoS One, Journal of the Geological Society, Bulletin of Geosciences, Scottish Journal of Geology, Transactions of the Royal Society of Edinburgh – Earth Sciences, Palaeontologica Electronica, University of Michigan Museum of Zoology publications, New Mexico Museum of Natural History and Science Bulletin, Proceedings of the Academy of Natural Science – Philadelphia.

Grant Reviews: NSF BIO Division of Environmental Biology, NSF GEO Earth Surface Processes, NSF BIO Developmental Systems Cluster, NRF (South Africa), NSERC (Canada), Palaeontological Association (UK).

Grant Panels: NSF BIO Division of Environmental Biology (Systematics and Biodiversity Science), NSF GEO Earth Surface Processes (Sedimentary Geology and Paleobiology)

MENTORSHIP

Graduate Students

Primary Advisor

2018- Ananth Srinivas (PhD Student, EES, Penn)
2016- John Sime (PhD Student, EES, Penn)
2015-2018 Erynn Johnson (PhD Student, EES, Penn; NSF GRF)
2014-2018 Aja Carter (PhD Student, EES, Penn; co-advisor)
2016-2017 Travis Lumpkin (Masters of Applied Geosciences, EES, Penn, Now: Teacher, Manassas Park City Schools)
2014-2015 Bryan Juarez (Frontiers Master's Student, EEB, UM, Now: PhD student, Iowa State University; NSF GRF)

Non-Thesis Research Supervisor

2019- Ian Bayer (NSF CAREER, Penn Class of 2020, MES 2021)
2019-2020 Satyarth Vaidya (MS Student, SEAS, Penn)
2015 Elizabeth Anzinger (Masters of Applied Geosciences, EES, Penn)
2015 Britney Vazquez (Masters of Applied Geosciences, EES, Penn)
2015 Wei Tang (Masters of Architecture, Design, Penn)

Committee Member

2018- Michaela Mitchell (PhD Student, Wright State University)
2014-2018 Stephen Jasinski (PhD Student, EES, Penn)
2014-2016 Liguo Li (MS Student, EES, Penn)

Undergraduate Researchers

Senior Thesis Advisor

2017- Jeremy Wyman (Penn Class of 2021)
2013-2019 Jack Stack (Benjamin Franklin Scholar, Penn Class of 2019; NSF GRF Honorable Mention. Now: MS Student, Michigan State University)

- 2017-2018 Jisoo Kim (Senior Thesis, Earth Science Major, Penn Class of 2018;
Now: PhD Student, Arizona State University)
- 2017 Courtney Lang (Senior Thesis, Env. Sci. Major, Penn Class of 2017;
Now: MS Columbia University; Analyst at LS Power)
- 2014-2015 Andrew Galimberti (External Senior Thesis, Kalamazoo College Class
of 2015 Now: MS Univ. of Maine; Entomologist, Cornell
Cooperative Extension)

Non-Thesis Research Supervisor

- 2020- Lilianne Sutton (NSF CAREER, Penn Class of 2023)
- 2020- Henry Feldman (NSF CAREER, Penn Class of 2023)
- 2020- Aprupa Alahari (NSF CAREER, Penn Class of 2023)
- 2020- Ashna Sethi (PURM student Penn Class of 2023)
- 2020- Luisa Fernandez (PURM student Penn Class of 2023)
- 2020- Daniel Sun (NSF CAREER, Penn Class of 2023)
- 2020- Thomas Leichner (NSF CAREER, Penn Class of 2023)
- 2019- Michael Maxwell (NSF CAREER, Penn Class of 2022)
- 2019- Cezanne Lojeski (PURM student, NSF CAREER, Penn 2022)
- 2019- Brandon Li (NSF CAREER, Penn Class of 2023)
- 2019-2020 Marcelo Gracia (NSF CAREER, Penn Class of 2020)
- 2019- Natalie Zucca (NSF CAREER, Penn Class of 2023)
- 2019- Le (Helen) He (NSF CAREER, Penn Class of 2023)
- 2019 Ailbhe Wallis (NSF CAREER, Penn Class of 2021)
- 2019 Eric Wang (NSF CAREER, Penn Class of 2021)
- 2019 Jenesis Cochran (NSF CAREER, Penn Class of 2023)
- 2019 Pryce Davies (NSF CAREER, Penn Class of 2021)
- 2019-2020 Maliha Hoque (NSF CAREER, Penn Class of 2022)
- 2019 Jason Wu (PURM student, Penn Class of 2022)
- 2018- Sophie Spalding (NSF CAREER, Penn Class of 2020)
- 2018-2020 Nyazia Bey (Hayden Scholar and NSF CAREER, Penn Class of 2020)
- 2018-2019 Francesca Marini (Penn Class of 2021)
- 2018 Alex Pearlstein (Penn Class of 2021)
- 2018 Jeffrey Manner (Penn Class of 2020)
- 2017-2018 Regina Fairbanks (Penn Class of 2021)
- 2017-2018 Briana DiMarco (Drexel University)
- 2017-2018 Victoria Zhang (Penn Class of 2020)
- 2017 Alana Rosen (University of Delaware)
- 2017 Elizabeth Coulter (Penn Class of 2018)
- 2017 Charles Sansone (PURM student, Penn Class of 2019)
- 2017 Abigail Waugh (PURM student, Penn Class of 2020)
- 2017 Sabine Nix (University Scholar, Penn Class of 2020)
- 2017 Saloni Wadhwa (Penn Class of 2020)
- 2016 Charlotte Bird (Univ. Birmingham, Supported by Pal. Ass.)
- 2016-17 Connor Leach (Penn Class of 2019)
- 2016-17 Gautam Nagaraj (Penn Class of 2017)
- 2016 Tyler Ling (Penn Class of 2018)

2016	<u>Jonathan Hoh</u> (Penn Class of 2016)
2016	<u>Patrick Romano</u> (Penn Class of 2016)
2015-2016	<u>Catherine Breiner</u> (Penn Class of 2016)
2015-2016	<u>Zara Turner</u> (Penn Class of 2017)
2015	<u>Matthew Scott</u> (Penn Class of 2018)
2015	<u>Nina Vithayanthil</u> (Penn Class of 2016)
2015	<u>Althea Escorce</u> (Penn Class of 2016)
2015	<u>Julia Slater</u> (Penn Class of 2017)
2013-2014	<u>Tyler Carlton</u> (Michigan Class of 2015)
2013	<u>Michelle Park</u> (Michigan Class of 2016)
2013	<u>Greg Hanafin</u> (Michigan Class of 2014)
2012-2013	<u>Scott Johnston</u> (Michigan Class of 2016)

Postdoctoral Scholars

2015-2017	<u>John Clarke, PhD</u>
2014	<u>Brian Swartz, PhD</u>

TEACHING

2019	GEOL 205 (Non-Majors) <i>Paleontology</i> , 50 Students	University of Pennsylvania
2019	GEOL 479 (Non-Majors) <i>Macroevolution</i> , 13 Students	University of Pennsylvania
2018	GEOL 516 (Non-Majors) <i>Paleoecology</i> , 8 Students	University of Pennsylvania
2018	GEOL 750 <i>Geoscience Colloquium Seminar</i> , 9 Students	University of Pennsylvania
2017	GEOL 205/405 (Non-Majors) <i>Paleontology</i> , 30 Students	University of Pennsylvania
2017	GEOL 479 (Non-Majors) <i>Macroevolution</i> , 8 Students	University of Pennsylvania
2017	GEOL 750 <i>Geoscience Colloquium Seminar</i>	University of Pennsylvania
2016	GEOL 125 (Non-Majors) <i>Earth and Life Through Time</i> , 200 Students	University of Pennsylvania
2015	GEOL 205/405 (Non-Majors) <i>Paleontology</i> , 30 Students	University of Pennsylvania
2015	GEOL 125 (Non-Majors) <i>Earth and Life Through Time</i> , 200 Students	University of Pennsylvania
2013	<i>Biology of Fishes</i> , 60 Students	University of Michigan

WORKSHOPS

2011	Macroevolutionary Methods in R Santa Barbara, CA, August 1-4, 2011
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INVITED TALKS

2020	<u>University of California, Davis – Bodega Marine Lab</u> . October 7, 2020.
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- 2019 North American Paleontological Conference (Keynote), Riverside, CA. June 23, 2019.
- 2019 Smithsonian Institution “Deep Time Symposium: Life’s Greatest Hits” (Open to Public) March 29, 2019.
- 2019 University of California, Los Angeles, Ecology and Evolutionary Biology. March 2, 2019.
- 2019 Yale University, Geology and Geophysics, February 13, 2019.
- 2019 University of Pennsylvania. Biology Department. Philadelphia, PA February 7, 2019
- 2019 University of California, Berkeley, Integrative Biology, February 1, 2019.
- 2018 Society of Vertebrate Paleontology: “Big Data, Big Problems.” Albuquerque, NM. October 17, 2018
- 2018 Harvard University, Paleobiology Seminar, April 3, 2018.
- 2017 Yale University, Ecology and Evolutionary Biology, November 8, 2017.
- 2017 University of Chicago, Keynote, Darwinian Cluster Annual Retreat, September 22, 2017.
- 2017 Symposium on Vertebrate Paleontology and Comparative Anatomy. “Special Symposium: Macroevolution in Paleontology”, Birmingham, UK. September 12, 2017.
- 2017 University of Michigan Museum of Paleontology, Ann Arbor, MI May 19, 2017.
- 2017 Academy of Natural Sciences/Drexel University, May 12, 2017.
- 2016 Temple University, Geology Department. December 2, 2016.
- 2016 American Museum of Natural History, February 29, 2016.
- 2015 Royal Swedish Academy of Sciences 275th Anniversary Symposium: “Palaeontological and Molecular Approaches to Early Vertebrate Evolution.” Uppsala, Sweden. May 12-13, 2015.
- 2014 University of Pennsylvania. Biology Department. Philadelphia, PA October 30, 2014.
- 2014 Michigan Society of Fellows, University of Michigan. Ann Arbor, MI. April 8, 2014.
- 2014 University of California, Los Angeles, Earth, Planetary and Space Sciences, February 27, 2014.
- 2014 University of Michigan Museum of Paleontology, Ann Arbor, MI. February 21, 2014.
- 2014 University of Pennsylvania, Evolution Cluster, Philadelphia, PA. February 10, 2014.
- 2013 Geological Society of America Annual Meeting, T239. Recent advances in the nature of the Mesozoic Marine Revolution. Denver, CO. October 27-30, 2013.
- 2013 Eastern Michigan University, October 9, 2013
- 2013 Michigan Society of Fellows, University of Michigan, April 8, 2013.
- 2013 Virginia Tech, Geosciences, Blacksburg, VA February 22, 2013
- 2012 University of Michigan, Ecology and Evolutionary Biology, Ann Arbor, MI. September 20, 2012

- 2012 Early Career Scientists Symposium 2012, University of Michigan, Ann Arbor, MI. March 25, 2012.
- 2012 University of Chicago, Natural History Seminar Series, Department of Ecology and Evolution, University of Chicago, Chicago, IL. January 31, 2012.
- 2012 Santa Fe Institute, Santa Fe, NM. January 25, 2012.
- 2011 World Conference on Marine Biodiversity. Aberdeen, Scotland. September 26-30, 2011.
- 2011 Geological Society of America Northeast/North-Central Combined Section Meeting, Pittsburgh, PA. March 20-22, 2011.

REGULAR CONFERENCE PRESENTATIONS (Lab Members and First Author)

Society for Vertebrate Paleontology, Evolution, Geological Society of America, Indo-Pacific Fishes Conference, International Paleontological Congress, North American Paleontological Convention, Palaeontological Association, Society for Integrative and Comparative Biology, International Symposium on Early and Lower Vertebrates, Paleontological Research Institution Summer Symposium, Penn-Smithsonian Joint Geobiology Symposium

PUBLIC OUTREACH

OUTREACH TALKS

- 2020 Earth Science Club of Northern Illinois. Zoom. Sept. 11, 2020.
- 2019 TEDSummit, Edinburgh, Scotland. July 22, 2019.
- 2017 Penn 60-Second Slam, Alumni Weekend, May 13, 2017.
- 2017 TED2017, Vancouver, Canada. April 24, 2017.
- 2017 Penn 60-Second Lecture, Collegepalooza, April 12, 2017.
- 2017 Penn Science Café, February 21, 2017.
- 2016 Delaware Valley Geological Society, Academy of Natural Science. April 29, 2016.
- 2015 Philadelphia Geological Society, Bryn Mawr College. October 22, 2015

PRESS COVERAGE

Video: TED Talks (2), Discovery Channel Canada “Daily Planet”, Penn News Office, Science Friday (Radio), MinuteEarth (YouTube), ScienceLine, Penn SAS 60-Second-Slam, SFGate, *OK Go* on Facebook Live.

Radio/Podcast: *Science Magazine* Podcast, *Scientific American* Podcast, BBC 5 “5 Drive Live” (UK), Irish NewsRadio “FutureShock” (Ireland, 3), BBC World Service “Science in Action,” BBC Radio Wales “Good Evening Wales” (UK), AM 900 “Matt Holmes Show” (Canada), CBC Radio (Canada), Wolfgang Radio “Science(ish)” (UK), CBC “Quirks and Quarks” (Canada), German Public Radio (Deutschlandfunk, 3), Voice of America Radio “Our World” (International), Palaeocast (International), AM 1050 “Happenings Q&A” (Kenosha, WI), Anthropological Airwaves Podcast (American Anthropologist).

Print Interviews: New York Times (Top Science Story, Front Page Online, 2), Los Angeles Times (2), Christian Science Monitor, Chicago Tribune, *Forbes*, Philadelphia Inquirer, *The Ends of the World* (Peter Brannen, Harper Collins), *ScienceNow* (2), *Science Magazine*, *Discovery News* (6), *Scientific American* (3), *New Scientist* (3), *Quartz Magazine/The Atlantic* (2), *The Conversation*, *Cosmos Magazine*, *La Repubblica* (Italy), *El Mundo* (Spain), *DPA* (Germany), *BioNieuws Magazine* (Netherlands), *Live Science* (2), *Science News* (2), *Hakai Magazine*, *BBC Focus Magazine* (UK, 2), *International Business Times* (UK), *Haaretz* (Israel), *Gizmodo* (2), *ScienceLine*, *Deposits Magazine* (Cover Story), *Buceo XXI* (Spain), *Elements Science Magazine* (UK), *Correio Brasiliense* (Brazil), *IG* (Brazil), *Science Donga* (Korea), *Michigan Morning Sun*, *Times of India* (India), *Illinois Issues Magazine*, *Daily Pennsylvanian* (2), *Pennsylvania Gazette*, *Penn Parents Magazine*, *Penn Current* (2), *OMNIA Magazine* (2), *University of Chicago Magazine*, *Medicine on the Midway*.

Other Print Coverage: English: NSF Homepage, Washington Post, Tribune Corp. Newspapers (LA Times, Chicago Tribune, etc.), Christian Science Monitor (*2 Top Science Stories, Front Page Online), DailyMail (*5 Front Pages), USA Today (*Discoveries of the week), TED Blog, Pittsburgh Post-Gazette, Billings Gazette, Alaska Dispatch, Albany Daily Star, The Columbian, New Scientist (*2 Top Stories), Scientific American (3, *Image Gallery Feature), Science Magazine News (*2 Top Stories), CBS News (* 2 Front Pages), MSNBC, Yahoo News (*2 Top Stories), Fox News (*Top Science Story), NewsDay, Motherboard (Vice, *Top Story), Discovery News/Seeker (*3 Top Stories), DailyMotion/MSN, Ars Technica (*Top Story), UPI (3), NPR (WBEZ Chicago), WGN News, Chicago Tonight (PBS), Quest Magazine, COSMOS Magazine, BoingBoing (*Front Page), Live Science (*Story of the week, Science images of the week), ScienceDaily (*6 Top Stories), ScienceNews (2, *Top Story), INC, CoolHunting, Breitbart, Independent (UK), Telegraph (UK), The Sun (UK), Sky News (Australia), ABC News (Australia), Globe and Mail (Canada), Toronto Star (Canada), Management Team (Netherlands), The Hindu (India, 3), Asian News International (India, *Multiple Times), The India Republic (India), Irish Examiner (Ireland), International Business Times, International Science Times, The Examiner (Global), RedOrbit (*Top Story and Video), DailyKos, Futurity.Org (*3 Top Stories), Mother Nature Network (2), GeologyIn, Chicagoist, Geekosystem, TI-SI (*Top Story), ZMEScience (*2 Top Stories), BioQuickNews (*Top Story), Sci-News (*Top Story), Penn Currents (*Front Page), University of Chicago Imprint, University of Chicago Biological Sciences Division Dean's Letter, University of Michigan Gateway.

International: Der Spiegel (Germany, *3 Front Pages), Spektrum (Germany, 2), DPA (German Press Agency, Interview), Deutschlandfunk (German Public Radio, Interview), Die Presse (Germany), Die Welt (Germany), AFP (France), Futura-Science (France), SciencePost (France), Sciences et Avenir (France, Top Story), Mashable avec France 24, Der Standard (Austria, 3), DeVolkskrant (Netherlands, Front Page), Videnskab (Netherlands), Europa Press Newswire (Spain, 4), Agenzia Giornalistica Italia (Italy), Haaretz (Israel), Focus Magazine (Italy, *Top Story), La Repubblica (Italy), Sky Italy, Gaia News (Italy), Great Danish (Denmark), Correio Brasiliense (Brazil), Discovery News Brazil (*Most Visited Story, Brazil), El Mundo (Spain, 2, Interview), Diario Opinion (Spain), Ojo Cientifico (Argentina), NeoFronteras (Spain, 2), Delo (Slovenia), EER Estonian Public News (Estonia), Times of India (India), Mumbai Mirror (India),

Tempo (Indonesia), SAJ News Agency (Iran), Fars News (Iran), Tehran Times (Iran), Polish Press Agency (Poland), Tekiikan Maailima (Finland), AGI (Italy), Sina News (China, *Front Page), Hirado (Hungary), Donga (Korea), OZEL (Czech Republic), InfoX (Russia), Mail (Russia), Gazeta (Russia), RIA (Russian Newswire), Tyden (Czech Republic), Vector News (Ukraine), UUA (Chinese Newswire, *2), Ynet (China), Yibada (China), ScienceNet (China), Bioon News (China), Tunisian News Agency (Tunisia), China Network Television (China), Than Nien (Vietnam), DBV (Vietnam).