

Curriculum Vitae - current December, 2007

STEPHEN TOBIAS ABEDON

Bacteriophage Ecology and Evolutionary Ecology

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#1 Google Ranking for “bacteriophage ecology”[†]

EDUCATION

- | | | |
|------|---|---|
| 1990 | <ul style="list-style-type: none">• Ph.D.• Major:• Minor:• Dissertation title:• Research advisor: | University of Arizona
Microbiology (molecular genetics conc.)
Ecology and Evolutionary Biology
<i>The Ecology of Bacteriophage T4</i>
Harris Bernstein, Ph.D. |
| 1984 | <ul style="list-style-type: none">• BS• Major: | University of Massachusetts at Amherst
Biochemistry |

PROFESSIONAL EXPERIENCE

- | | | |
|--------------|--|--|
| 2001-present | <ul style="list-style-type: none">• Associate Professor• Department of Microbiology; The Ohio State University | |
| 1995-2001 | <ul style="list-style-type: none">• Assistant Professor• Department of Microbiology; The Ohio State University | |
| 1993-1995 | <ul style="list-style-type: none">• NIH Post-Doctoral Trainee• Dept. Microbiology, U. of Pennsylvania; Lab. of Robert W. Doms• Immunogenic characterization of HIV-1 transmembrane protein | |
| 1990-1993 | <ul style="list-style-type: none">• Research Associate• Dept. Microbiol. & Immunol., U. of AZ; Lab. of Harris Bernstein• Characterization and genetic analysis of T4 bacteriophage lysis | |
| 1992-1993 | <ul style="list-style-type: none">• Computer Software Development• MicroDude Computer Software, sole proprietorship, Tucson, AZ• Application development—Borland Turbo Pascal compiler | |
| 1990 | <ul style="list-style-type: none">• Research Assistant• Dept. Microbiol. & Immunol., U. of AZ; Lab. of John Spizizen• Plasmid curing of an industrial strain of <i>Bacillus thuringiensis</i> | |

[†]On Sunday, September 30, 2007, the first 10 hits on Google for a “phage ecology” web search were either written by me, maintained by me, or about me, though phage.org was “only” second ☺

HONORS—Awards, Grants, and Merit-Based Support

- 2007 • Invited to Foundation Les Treilles meeting, in France, on “The Evolution, Diversity and Ecology of the Dark Matter of the Biosphere: Bacteriophages” held March, 2007 (~20 attendees)
- 2004 • \$12,000 awarded for intramural industry matching grant, jointly funded by OSU OARDC-RECGP and Infected Inc.: Sreevatsan S., Abedon, S.T. Isolation and Characterization of *Mycobacterium avium* subspecies *paratuberculosis*.
- 2003 • \$15,000 awarded for development of honors Microbial Evolution course by OSU Honors and Scholars Center (10 of 26 proposals were funded)
- 2002-2003 • Office of International Affairs (OSU) Faculty Int. Research Travel Grant (\$1,500)
- 2001 • Abedon *et al.* (2001) featured in Nov., 2001 (Vol. 67) Journal Highlights section of *ASM News*.
- 2000 • Review of website (www.phage.org) in 13 Oct., 2000, issue of *Science*.
- 1999-2000 • Mansfield-campus professional-development grant (\$1000)
- 1999 • Book-jacket “blurb” of Bill Summers' book *Felix d'Herelle and the Origins of Molecular Biology* for Yale University Press
- 1996-1997 • Competitive O.S.U. intramural seed grant (\$16,385)
- 1993-1995 • NIH post-doctoral neurovirology training grant (University of Pennsylvania)
- 1986-1990 • NIH pre-doctoral cancer training grant (University of Arizona)
- 1985-1986 • Department-based pre-doctoral fellowship (University of Arizona)
- 1984-1985 • Department-based tuition-waiver scholarship (University of Arizona)
- 1984 • Graduated *cum laude*, *Phi Beta Kappa* (University of Massachusetts)
- 1981 • Honored as top inorganic chemistry student in school (Western Connecticut State University)



GRC “ACTIVITIES” BLURB:

I am a phage evolutionary ecologist with an active research program. I am responsible for development and maintenance of www.phage.org, the Bacteriophage Ecology Group web page. I authored the Wikipedia Microbial Population Biology page as well as numerous related Wikipedia pages, including that on phage ecology. I contributed to the editing (with name on title page) of *The Bacteriophages* 2nd edition (Richard Calendar, editor; Oxford University Press). I edited a subsequent monograph titled *Bacteriophage Ecology: Population Growth, Evolution, and Impact of Bacterial Viruses* (Cambridge University Press, S. T. Abedon, editor). In the past two years I have been contracted to write three "Encyclopedia of" entries (Elsevier): Bacteriophage Ecology (EoVirology, submitted), Cellular Respiration (EoEcology, submitted), and Bacteriophage Overview (EoMicrobiology, submitted). I am also to be first author on a fourth on phage (EoMicrobiology, submitted). I gave the opening talk (on phage ecology and evolution) for the symposium titled “Viral environmental microbiology” held at the 161st Society for General Microbiology meeting, September, 2007, in Edinburgh, Scotland. I also was invited and attended the Foundation Les Treilles meeting, in France, titled “The evolution, diversity and ecology of the dark matter of the biosphere: bacteriophages” held March, 2007 (~20 attendees). My current research interests are in phage life history evolution including especially during plaque development. This year (2007) I have three peer-reviewed papers published or in press. Next year (2008) I have an expectation that I will publish at least 14 “citable units” including one book, 10 book chapters, and two invited reviews. For 2009 I will have at least seven citable units, including the two EoM entries, two invited reviews (one of which may be published instead in 2008, see as follows), and the three “units” that will come from the phage therapy journal special issue (including that volume itself, see also as follows)—that is, I have been contracted to write two additional reviews on phage ecology (one for *FEMS Environmental Microbiology* and the other for *Advances in Applied Microbiology*) and will be editing a special topics issue of a journal (the name of which you’ve never heard of) that will be on the issue of “the Nuts and Bolts” of phage therapy. In addition, I have a number of reasonably mature manuscripts in preparation, at least some of which I hope to submitting for peer review in the coming year.

PUBLICATIONS—Edited Volumes (coding: **accepted/in press**, **submitted**, **in prep**)

- 1) Calendar, R. (volume editor), **Abedon, S. T.** (acknowledged as “with editorial assistance by”) (2006). *The Bacteriophages*, 2nd edition. Oxford University Press. (review of all of phagology; see www.thebacteriophages.org for chapters and list of contributors) (see publisher’s page via <http://tinyurl.com/236epn>, or go to www.thebacteriophages.org)
- 2) **Abedon, S. T.** (editor) (in preparation with anticipated 2008 publication). *Bacteriophage Ecology: Population Growth, Evolution, and Impact of Bacterial Viruses*. Cambridge University Press. (see <http://tinyurl.com/yuld7y> for publishers page; contributors include, in order of appearance, Bruce Levin, Ben Kerr, Jevin West, Brendan Bohannon, John Yin, Bob Miller, Martin Day, Siobain Duffy, Paul Turner, Roger Hendrix, Jim Bull, Frede Thingstad, Gunnar Bratbak, Mikal Heldal, Larry Goodridge, Carl Merrill, Paul Hyman, David Stopar, Stephen Krone, and Jason Gill)
- 3) **Abedon, S. T.** (editor) (in preparation with anticipated 2009? publication; special topics issue on the “nuts

and bolts" of phage therapy). *Current Pharmaceutical Biotechnology*. (see <http://www.bentham.org/cpb/>; contributors include, in order of appearance, Paul Hyman, Jason Gill, Larry Goodridge, Jeff Jones, Roger Johnson, Shivani Ojha, Martin Loesner, Steven Hagens, Betty Kutter, etc.)

PUBLICATIONS—Peer-Reviewed (see www.phage.org/homepage_publications.htm for reprints)

- 4) **Abedon, S. T.** (1989). Selection for Bacteriophage Latent Period Length by Bacterial Density: A Theoretical Examination. *Microbial Ecology* 18:79-88. (*in silico* study)
- 5) **Abedon, S. T.** (1990). Selection for Lysis Inhibition in Bacteriophage. *Journal of Theoretical Biology* 146:501-511. (theory paper)
- 6) **Abedon, S. T.** (1992). Lysis of Lysis-Inhibited Bacteriophage T4 Infected Cells. *Journal of Bacteriology* 174:8073-8080. (whole-organismal study)
- 7) Broder, C.C., Earl, P. L., Long, D., **Abedon, S. T.**, Moss, B. *, Doms, R. W. (1994). Antigenic Implications of HIV-1 env Quaternary Structure. *Proceedings of the National Academy of Science USA* 91:11699-11703. (molecular study; perhaps 5% of effort is mine; I contributed one figure)
- 8) Paddison, P., **Abedon, S.T.**, Dressman, H., Gailbreath, K., Mosser, E., Neitzel, J., Guttman, B., Kutter, E. * (1998). Lysis Inhibition and Fine-Structure Genetics in Bacteriophage T4. *Genetics* 148:1539-1550. (molecular and whole-organismal genetic analysis; ~25% of effort was mine; I contributed intellectually plus contributed half of the figures)
- 9) **Abedon, S. T.** (1999). Bacteriophage T4 Resistance to Lysis-Inhibition Collapse. *Genetical Research*. 74:1-11. (whole-organismal genetic analysis)
- 10) **Abedon, S. T.** *, Herschler, T. D., Stopar, D. (2001). Bacteriophage Latent-Period Evolution as a Response to Resource Availability. *Applied and Environmental Microbiology* 67:4233-4241. (*in silico* study with some experimental corroboration; ~75% of effort was mine; Mr. Herschler worked under my supervision)[‡]
- 11) **Abedon, S. T.** *, Hyman, P., Thomas, C. (2003). Bacteriophage Latent-Period Evolution as a Response to Bacteria Availability: An Experimental Examination. *Applied and Environmental Microbiology* 69:7499-7506. (whole-organismal experimentation with ecological analysis; ~90% of effort was mine; Ms. Thomas worked under my supervision)[§]
- 12) LeJeune, J.T. *, **Abedon, S.T.**, Takemura, K., Christie, N.P. Sreevatsan, S. (2004). Human *Escherichia coli* O157:H7 Genetic Marker in Isolates of Bovine Origin. *Emerging Infectious Diseases* 10(8):1482-1485 (www.cdc.gov/ncidod/EID/vol10no8/03-0784.htm). (molecular study; ~15% of effort is mine, consisting entirely of intellectual support)

* Corresponding author.

‡ featured in Nov., 2001 (Vol. 67) Journal Highlights section of *ASM News*

§ recommended Faculty of 1000 Biology (www.f1000biology.com), www.f1000biology.com/article/id/1007193/evaluation

- 13) **Abedon, S.T.*** and LeJeune, J.T. (2005). Why Bacteriophage Encode Toxins and other Virulence Factors. *Evolutionary Bioinformatics* 1:97-110. (synthesis; ~90% of effort is mine)
- 14) **Abedon, S.T.***, Culler, R.R. (2007). Bacteriophage Evolution Given Spatial Constraint. *Journal of Theoretical Biology* 248:111-119. (*in silico* study; Ms. Culler is an OSU-Mansfield undergraduate who worked under my supervision)
- 15) Dennehy, J., **Abedon, S. T.**, Turner, P. E.* (2007). Effects of Habitat Structure and Host Density on Phage Competition. *Evolution* 61:2516-2527 (experimental study; ~10% of effort is mine, especially the microcolony physiology post-hoc explanation)
- 16) **Abedon, S.T.***, Culler, R.R. (2007). Optimizing Bacteriophage Plaque Fecundity. *Journal of Theoretical Biology* 249:582-592. (theoretical study; Ms. Culler worked under my supervision)
- 17) Goodridge, L., **Abedon, S.T.*** (submitted). Bacteriophage-Mediated Biocontrol of Bacterial Pathogens: Applications and Recent Regulatory Developments in the United States. *Microbiology Australia* (invited review; ~15% of effort is mine)
- 18) **Abedon, S. T.** (in preparation). Bacteriophage Life History Evolution: Expectations, Tradeoffs. *Research in Microbiology* (invited review) (this effort currently is 95+ % complete; due date = February, 2008)

PUBLICATIONS—Editor-Reviewed Articles

- 19) **Abedon, S.T.** (2000). The Murky Origin of Snow White and Her T-even Dwarfs. *Genetics* 155:481-486. (historical perspective)
- 20) Gill, J., **Abedon, S.T.*** (2003). Bacteriophage Ecology and Plants. *APSnet Feature*, November 2003, www.apsnet.org/online/features/phages/ (invited review)
- 21) Goodridge, L., **Abedon, S.T.*** (2003). Bacteriophage Biocontrol and Bioprocessing: Application of Phage Therapy to Industry. *SIM News (Society for Industrial Microbiology News)* 53(6):254-262. (invited review; ~50% of effort is mine)
- 22) **Abedon, S. T.**, Nicholas H. Mann, Martha R. Clokie (in preparation). Phage Environmental Microbiology. *FEMS Environmental Microbiology* (invited mini-review; >50% of effort is mine; due date = May, 2008).
- 23) **Abedon, S. T.** (in preparation). Phage Evolution and Ecology. *Advances in Applied Microbiology*. (invited review; due date = August, 2008)

PUBLICATIONS—Book Chapters

- 24) **Abedon, S.T.** (1994). Lysis and the Interaction Between Free Phages and Infected Cells. In: *The Molecular Biology of Bacteriophage T4*. Jim D. Karam, John W. Drake, Kenneth N. Kreuzer, Gisela Mosig, Dwight Hall, Frederick A. Eiserling, Lindsay W. Black, Elizabeth Kutter, Karin Carlson, Eric S. Miller, Eleanor Spicer (eds), ASM Press, Washington, DC. pp. 397-405. (invited chapter)

- 25) Brietbart, M., Rohwer, F., **Abedon, S.T.*** (2005). Phage Ecology and Bacterial Pathogenesis. In: *Bacteriophages and Bacterial Pathogens* (tentative book title). Waldor, M., Friedmand, D., Ahdya, S. (eds), ASM Press, Washington, DC. (invited chapter; ~50% of effort is mine)
- 26) **Abedon, S.T.** (2006). Phage Ecology. In: *The Bacteriophages*. Second Edition. Calendar, R., Abedon, S. T. (eds), Oxford University Press, Oxford. (invited chapter)
- 27) Hyman, P., **Abedon, S.T.*** (submitted). Practical Methods for Determining Phage Growth Parameters. In: *Bacteriophages: Methods and Protocols*, Clokie M., Kropinski, A. (eds), Humana Press, USA. (invited chapter—this essentially is a review of techniques of phage organismal characterization; ~11,500 words including references; ~50% of effort is mine; this was submitted June, 2005)
- 28) **Abedon, S.T.***, Yin, J. (submitted). Bacteriophage Plaques: Theory and Analysis. In: *Bacteriophages: Methods and Protocols*, Clokie M., Kropinski, A. (eds), Humana Press, USA. (invited chapter—this is a review of techniques for studying phage growth within spatially structured environments; ~5,000 words including references; ~60% of effort is mine; this was submitted June, 2005)

PUBLICATIONS—Encyclopedia Articles

- 29) **Abedon, S.T.** (in press). Ecology of Viruses Infecting Bacteria. In: *Encyclopedia of Virology*, Mahy, B., van Regenmortel, M. (eds). Elsevier, Oxford. (invited entry; ~4000 words).
- 30) **Abedon, S.T.***, Breitenberger, C., Williams, J., Roden, E. (in press). Ecological Processes: Respiration. *Encyclopedia of Ecology*. Jørgensen, S. E., Fath, B. (eds). Elsevier, Oxford. (invited entry; ~4,000 words; ~40% of effort is mine)
- 31) Hyman, P., **Abedon, S.T.*** (accepted for publication). Bacteriophage — Overview. *Encyclopedia of Microbiology*. Schaechter, M. (ed). Elsevier, Oxford. (invited entry; ~8,000-12,000 words; ~50% of effort is mine)
- 32) **Abedon, S.T.**, Duffy, S., Turner, P. E.* (accepted for publication). Phage Ecology. *Encyclopedia of Microbiology*. Schaechter, M. (ed). Elsevier, Oxford. (invited entry; ~10,000 words; 60% of effort is mine, i.e., I was the primary writer)

PUBLICATIONS—Self-Invited/Edited Chapters and Articles

- 33) **Abedon, S.T.** (in press). Phage, Ecology, Evolution. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (self-invited chapter; ~13,500 words including references)
- 34) **Abedon, S.T.** (in press). Phage Population Growth: Constraints, Games, Adaptations In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (self-invited chapter; ~10,500 words including references)
- 35) **Abedon, S.T.***, Yin, J. (in press). Impact of Spatial Structure on Phage Population Growth. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University

- Press, Cambridge. (self-invited chapter; ~8,000 words including references; ~60% of effort is mine)
- 36) Hyman, P. *, **Abedon, S.T.** (in press). Phage Ecology of Bacterial Pathogenesis. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (self-invited chapter; ~12,000 words including references; ~40% of effort is mine)
- 37) Stopar, D., **Abedon, S.T.*** (in press). Modeling Phage Population Growth.. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (self-invited chapter; ~9,500 words including references; ~50% of effort is mine)
- 38) Krone, S.M.. *, **Abedon, S.T.** (in press). Modeling Phage Plaque Growth. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (self-invited chapter; ~9,000 words including references; ~50% of effort is mine)
- 39) **Abedon, S. T.** (in preparation). The Nuts and Bolts of Phage Therapy. *Current Pharmaceutical Biotechnology*. (self invited editorial highlighting the importance of this special topic issue; due date = June, 2008)
- 40) **Abedon, S. T.** (in preparation) Impact of Phage Ecology on Phage Therapy. *Current Pharmaceutical Biotechnology*. (self invited article, conceptual piece; due date = June, 2008)

PUBLICATIONS—Portions of Book Chapters

- 41) **Abedon, S.T.** (1997). Addendum (re: “The Cult of the Golden Ratio”). In: *Weird Water & Fuzzy Logic: More Notes of a Fringe Watcher*. Martin Gardner (author), Prometheus Books, pp. 96-97. (reprinted letter)
- 42) **Abedon, S. T.** (in press). Rate of adsorption is function of phage density (appendix to chapter by L. D. Goodridge: Phage, bacteria, and food). In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. (~1000 words)

PUBLICATIONS—Neither Peer- nor Editor-Reviewed (nor published in book)

- 43) **Abedon, S. T.** (1992). What is an ORF? *T4 News* 6(1).
- 44) **Abedon, S. T.** (1992). Bottle lysate T4 stock preparation: What if your cultures won't clear? *T4 News* 6(1).
- 45) **Abedon, S. T.** (1993). The isolation of T-even phages (feces --> P.C./PC --> gamma --> T2; Sewage --> T4/T6). *T4 News* (February 7).
- 46) Doms, R. W. *, **Abedon, S. T.**, Richardson, T. M. (1995). Viral Membrane Proteins as Tools to Study Protein Folding, Assembly, and Transport. *Trafficking of Intracellular Membranes: Molecular Sorting to Membrane Fusion*. M.C. Pedroso de Lima (ed). NATO-ASI Series, Subseries H, Vol. 91, p. 171-186. (conference proceeding)

- 47) **Abedon, S. T.** (1999). BEG: What are We, Where are We, and Where We're Going. *BEG News* 1. (editorial)
- 48) **Abedon, S. T.** (1999). When Grown *In Vitro*, do Parasites of Multicellular Organisms (MOPs) become Unicellular Organism Parasites (UOPs)? *BEG News* 2. (editorial)
- 49) **Abedon, S. T.** (2000). Bacteriophages as Model Systems. *BEG News* 3. (editorial)
- 50) **Abedon, S. T.** (2000). Lytic, Lysogenic, Temperate, Chronic, Virulent, Quoi? *BEG News* 5. (editorial)
- 51) **Abedon, S. T.** (2000). Which Ecology are You? *BEG News* 6. (editorial)
- 52) **Abedon, S. T.** (2001). How Big is 10^{30} ? *BEG News* 7. (essay)
- 53) **Abedon, S. T.** (2001). The Bacteriophage Rise. *BEG News* 10. (editorial)
- 54) **Abedon, S. T.** (2002). Mathematics for Microbiologists. *BEG News* 11. (editorial)
- 55) **Abedon, S. T.** (2002). Calling a Phage a "Phage". *BEG News* 13. (editorial)
- 56) **Abedon, S. T.** (2003). Some Recent Phage and Phage-Related Patents. *BEG News* 17. (bibliography)
- 57) **Abedon, S. T.** (2004). ASM Conference on the New Phage Biology. *BEG News* 19. (editorial)
- 58) **Abedon, S. T.** (2004). Early (pre-1950) Phage References. *BEG News* 19. (bibliography)
- 59) **Abedon, S. T.** (2004). The Bacteriophage Literome – Part I. *BEG News* 22. (editorial)
- 60) **Abedon, S. T.** (2004). The Cyanophage Literome. *BEG News* 22. (bibliography)
- 61) Scott, E.C., Matzke, N.J., Branch, G., **Abedon, S.T.**, *et al.* (2004). The Morphology of Steve. *Annals of Improbable Research* 10(4)24-29. (my contribution: <1%)
- 62) **Abedon, S. T.** (2005). Phage Books — Phage T-Shirt. *BEG News* 23. (editorial/bibliography)
- 63) **Abedon, S. T.** (2005). *BEG News*, the Final Quarterly Issue. *BEG News* 24. (editorial)
- 64) **Abedon, S. T.** (2006). Phage ecology. Wikipedia entry. (as of September 13, 2006, 4,500+ words, 99% of effort mine)
- 65) **Abedon, S. T.** (2006). Phage monographs. Wikipedia entry. (as of September 13, 2006, 3,500+ words, 99% of effort mine)
- 66) Duffy, S., **Abedon S. T.** (2006). Phage experimental evolution. Wikipedia entry (as of September 19, 2006, 2,500+ words, 50% of effort mine)**
- 67) **Abedon, S. T.** (2006). Cyanophage. Wikipedia entry. (as of Sunday, October 08, 2006, 9,000+ words, 99% of effort mine)
- 68) **Abedon, S. T.** (2006). Phage Ecology on Wikipedia. *BEG News* 25. (editorial)
- 69) Online Lecture, The Chemical Content of Life (2007). In: *Proof of Origin*, George Matthews (editor/primary author). iUniverse Inc., see iuniverse.com. (25-

** this entry was deleted from Wikipedia but can still be found on Citizendium

paragraph quotation from an educational web page I developed for my Bio 113 introductory biology class)

- 70) Duffy, S. *, **Abedon, S.T.** (in press). The Development of Plaques and the Mechanism of Phage Action in Solidified Agar. Translation (from German) of Mayr-Harting, A. (1958). Die Entwicklung von Phagenloechern und der mechanismus der Phagenwirkung in festen Naehrboeden. *Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. 1. Abt., Originale* 171:380-392. *BEG News* 26.

WEB SITES & WEB PAGES

71) Bacteriophage Ecology Group (www.phage.org):

- **Abedon, S. T.** (1996-present). The Bacteriophage Ecology Group (www.phage.org); often is the Google.com “I’m Feeling Lucky” search for “Phage ecology” and “Bacteriophage ecology”.
- **Abedon, S. T.** (1999-2007). *Bacteriophage Ecology Group News*, on-line newsletter with 26 issues published (www.phage.org/beg_news.htm).
- Ackermann, H.-W., **Abedon, S.T.** (2001). Bacteriophage names 2000, a list of over 5,000 phage names and associated hosts (www.phage.org/names.htm).

72) Bacteriophage “Literome” (phage bibliographies):

- **Abedon, S. T.** (1996-on). Searchable Bacteriophage Ecology Group bibliography (www.phage.org/RIS/RISWEB.CGI), a bibliography containing over 5500 bacteriophage ecology references (see also www.phage.org/beg_bibliography.htm).
- **Abedon, S. T.** (1998-on). Searchable Raettig pre-1966 Bacteriophage (www.phage.org/RIS/RISWEB.CGI), a currently 5500+ entry bibliography of pre-1966 phage references; the completed bibliography will contain ~11,405 references constituting a reentry of the bibliographies originally assembled by Raettig in 1958 and 1967 (see also www.phage.org/beg_bibliography.htm).
- **Abedon, S. T.** (1998-on). Bacteriophage Ecology Group Phage Therapy References flat file (www.phage.org/bib_pt.htm).

73) Academic Service:

- **Abedon, S. T.** (1996-2004). *MicroPort*. Introductory microbiology on-line lecture notes, index, and WWW portal (www.phage.org/microbiology.htm).
- **Abedon, S. T.** (1996-2005). *BioPort*. Introductory biology on-line lecture notes, index, and WWW portal (www.phage.org/biology.htm).
- **Abedon, S. T.** (1998-2005). Microbiology and Immunology at the Ohio State University (www.phage.org/osumicro.htm), a guide to microbiology and immunology research performed on the various Ohio State University campuses.

- 74) **Abedon, S.T.** (2004). TheBacteriophages.org, in support of the text, *The Bacteriophages*, 2nd edition (www.thebacteriophages.org).
- 75) **Abedon, S.T.** (2004). TheBacteriophages.com, sales of phage-based paraphernalia (i.e., t-shirts) (www.thebacteriophages.org/sales.htm).
- 76) **Abedon, S.T.** (2006). Additional (smaller) Wikipedia projects (effort refers to original drafting or as of Monday, October 23, 2006):
http://en.wikipedia.org/wiki/Phage_meetings (100% my effort)
http://en.wikipedia.org/wiki/Microbial_population_biology (100% my effort),
http://en.wikipedia.org/wiki/Category:Microbial_population_biology (100% my effort),
<http://en.wikipedia.org/wiki/Category:Bacteriophage> (50% my effort)
http://en.wikipedia.org/wiki/Category:Phage_workers (75% my effort).
- 77) **Abedon, S.T.** (2007). Bacteriophage and Microbial Population Biology (what I use to organize my thoughts regarding the various fields; <http://phage.atwiki.com>)

NOTABLE SERVICE

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| 2007 | • Invited and gave opening talk for a two-day symposium on phage ecology at 161 st Society for General Microbiology meeting |
| 2007 | • Chaired opening session, International Bacteriophage Biology Meeting (Olympia, WA) |
| 2007 | • Chaired session, Foundation Les Treilles meeting, in France |
| 2007 | • Invited talk, Teacher's Symposium 2007, Change Through Time, Cleveland Museum of Natural History |
| 2006 | • Served on two-day CIHR Grant Peer Review Panel |
| 2006 | • Reviewed grant for NSF |
| 2006 | • Mansfield Secretary of Faculty Assembly (elected position) |
| 2005 | • Reviewed grant for NIH |
| 2003 | • Opening talk, Int. Bacteriophage Biol. Meeting (Olympia, WA) |
| 2003 | • Consultation for Omnilytics (report: What Makes Phage Safe?) |
| 2003 | • Mansfield President of Faculty Assembly (elected position) |
| 2002 | • Mansfield President of Faculty Assembly (elected position) |
| 2002 | • Mansfield Chairman of Curriculum Committee (elected position) |
| 2000 | • Member scientific advisory panel, Phage Biotech, Ltd. |
| 2000 | • Chaired session, The 2000 Millennial Phage Meeting (Montreal) |
| 1999 | • First publication of <i>Bacteriophage Ecology Group News</i> |
| 1998 | • Chaired session, Int. Bacteriophage Biol. Meeting (Olympia, WA) |
| 1996 | • Founded the Bacteriophage Ecology Group (www.phage.org) |
| 1991 | • Chaired session, Int. Bacteriophage T4 Meeting (Olympia, WA) |

COURSES TAUGHT

- | | |
|---------|---|
| Bio 102 | • Human biology for non-majors; '97, '03 (twice) |
| Bio 113 | • Intro biology for majors, freshman; '96...'07 (>10 times) |

- Bio 114 • 2nd intro biology for majors, freshman; '96... '07 (>10 times)
- Biochem 511 • Intro biochemistry for non-majors, junior through grad.; '01 (once)
- Micro 509 • Intro microbiol. for non-majors, junior-grad.; '95... '07 (>10 times)
- Micro h669 • Honors course on microbial evolution; '05, '07 (twice)

