

*Curriculum Vitae* - current January, 2010

# STEPHEN TOBIAS ABEDON

## *Bacteriophage Ecology and Evolutionary Ecology*

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#1 Google ranking for “phage ecology” and “bacteriophage ecology”<sup>†</sup>

### EDUCATION

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

### PROFESSIONAL EXPERIENCE

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

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<sup>†</sup> Various phage.org, Bacteriophage Ecology Group, or www.mansfield.ohio-state.edu/~sabedon, in all cases searching with or without quotes; last checked: Friday, January 15, 2010.

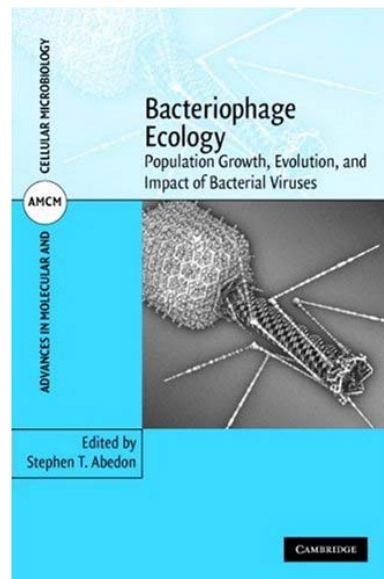
## HONORS—Awards, Grants, and Merit-Based Support

- 2008 • Awarded extramural grant as PI, “Analysis of the Advancements in Bacteriophage Therapies for Use in Clinical and Veterinary Applications,” by Battelle National Biodefense Institute, 9 months for \$72,658.58 (including overhead).
- 2008 • Awarded intramural grant as co-PI (Jeff LeJeune, PI), Identification of microbiological factors that suppress *E. coli* O157 in livestock bedding, two years for \$16,600 (my share).
- 2004 • \$12,000 awarded for intramural industry matching grant, jointly funded by OSU OARDC-RECGP and Infectech 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](http://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 training grant
- 1986-1990 • NIH pre-doctoral training grant
- 1985-1986 • Department-based pre-doctoral fellowship
- 1984-1985 • Department-based tuition-waiver
- 1984 • Graduated *cum laude*, *Phi Beta Kappa*
- 1981 • CRC inorganic chemistry award



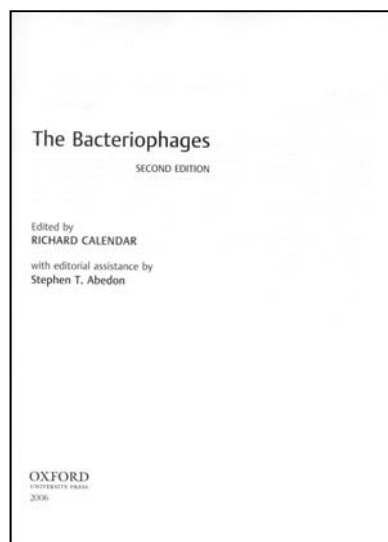
## VOLUMES & MONOGRAPHS EDITED (coding: **accepted/in press**, **submitted**, **in prep**)

- 1) **Abedon, S. T.** (editor) (in press—scheduled for publication in January, 2010). Special topics issue on “The ‘Nuts and Bolts’ of Phage Therapy” *Current Pharmaceutical Biotechnology* 11(10). (review of phage therapy consisting of six articles plus an introductory editorial)
- 2) **Abedon, S. T.** (editor) (2008). *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) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 3) Calendar, R. (volume editor), **Abedon, S. T.** (acknowledged as “with editorial assistance by”) (2006). *The Bacteriophages*, 2<sup>nd</sup> edition. Oxford University Press. (review of all of phagology; see [www.thebacteriophages.org](http://www.thebacteriophages.org) for chapters and list of contributors) (see publisher’s page via <http://tinyurl.com/236epn>, or go to [www.thebacteriophages.org](http://www.thebacteriophages.org)) <http://books.google.com/books?id=nozn1K8tcRsC>



## PUBLICATIONS—Peer-Reviewed

- 0) **Summary**: 15 peer-reviewed articles including 11 sole, first, or corresponding authorships; 7 editor-reviewed articles (1 still in press), for 6 of which I am first, sole, or corresponding author; and 17 chapters, for all of which I am first, sole or corresponding author (plus 1 which has been accepted but has not yet been published).
- 1) **Abedon, S. T.** (2009). Kinetics of Phage-Mediated Biocontrol of Bacteria. *Foodborne Pathogens and Disease* 6:807-815. (theoretical analysis) <http://www.ncbi.nlm.nih.gov/pubmed/19459758>
- 2) Goodridge, L., **Abedon, S. T.**\* (2008). Bacteriophage-Mediated Biocontrol of Bacterial Pathogens: Applications and Recent Regulatory Developments in the United States. *Microbiology Australia* 29(March):48-49. (invited review; ~15% of effort is mine)
- 3) **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) <http://www.ncbi.nlm.nih.gov/pubmed/17561124>



\* corresponding author.

- 4) Dennehy, J., **Abedon, S. T.**, Turner, P. E.\* (2007). Host Density Impacts Relative Fitness of Bacteriophage  $\phi 6$  Genotypes in Structured Habitats. *Evolution* 61:2516-2527 (experimental study; ~10% of effort is mine, especially the microcolony physiology post-hoc explanation) <http://www.ncbi.nlm.nih.gov/pubmed/17725627>
- 5) **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) <http://www.ncbi.nlm.nih.gov/pubmed/17919662>
- 6) **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) <http://www.ncbi.nlm.nih.gov/pubmed/19325857>
- 7) 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. (molecular study; ~15% of effort is mine, consisting entirely of intellectual support) <http://www.ncbi.nlm.nih.gov/pubmed/15496255>, [www.cdc.gov/ncidod/EID/vol10no8/03-0784.htm](http://www.cdc.gov/ncidod/EID/vol10no8/03-0784.htm)
- 8) **Abedon, S. T.**\*, Hyman, P., Thomas, C. (2003). Experimental Examination of Latent-Period Evolution as a Response to Bacterial Availability. *Applied and Environmental Microbiology* 69:7499-7506. (whole-organismal experimentation with ecological analysis; ~90% of effort was mine; Ms. Thomas worked under my supervision)<sup>‡</sup> <http://www.ncbi.nlm.nih.gov/pubmed/14660403>
- 9) **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)<sup>§</sup> <http://www.ncbi.nlm.nih.gov/pubmed/11526028>
- 10) **Abedon, S. T.** (1999). Bacteriophage T4 Resistance to Lysis-Inhibition Collapse. *Genetical Research*. 74:1-11. (whole-organismal genetic analysis) <http://www.ncbi.nlm.nih.gov/pubmed/10505404>
- 11) 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) <http://www.ncbi.nlm.nih.gov/pubmed/9560373>
- 12) 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) <http://www.ncbi.nlm.nih.gov/pubmed/7972127>



<sup>‡</sup> recommended Faculty of 1000 Biology ([www.f1000biology.com](http://www.f1000biology.com)), [www.f1000biology.com/article/id/1007193/evaluation](http://www.f1000biology.com/article/id/1007193/evaluation)

<sup>§</sup> featured in Nov., 2001 (Vol. 67) Journal Highlights section of *ASM News*

- 13) **Abedon, S. T.** (1992). Lysis of Lysis-Inhibited Bacteriophage T4 Infected Cells. *Journal of Bacteriology* 174:8073-8080. (whole-organismal study)  
<http://www.ncbi.nlm.nih.gov/pubmed/1459956>
- 14) **Abedon, S. T.** (1990). Selection for Lysis Inhibition in Bacteriophage. *Journal of Theoretical Biology* 146:501-511. (theory paper) <http://www.ncbi.nlm.nih.gov/pubmed/2273898>
- 15) **Abedon, S. T.** (1989). Selection for Bacteriophage Latent Period Length by Bacterial Density: A Theoretical Examination. *Microbial Ecology* 18:79-88. (*in silico* study)  
<http://www.springerlink.com/content/13gt5263142p4645/>

#### **PUBLICATIONS—Editor-Reviewed Articles**

- 16) Hyman, P. \*, **Abedon, S. T.** (in press—scheduled for publication in March, 2010). Bacteriophage Host Range and Bacterial Resistance. *Advances in Applied Microbiology* 70. (STA-invited review but PH took care of submission; ~14,000 words, excluding references; ~50% effort is mine)
- 17) **Abedon, S.T.**\*, Yin, J. (2009). Bacteriophage Plaques: Theory and Analysis. *Methods in Molecular Biology* 501:161-174. [also: 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; ~4,500 words, excluding references; ~60% of effort is mine)  
<http://www.ncbi.nlm.nih.gov/pubmed/19066821>
- 18) Hyman, P., **Abedon, S.T.**\* (2009). Practical Methods for Determining Phage Growth Parameters. *Methods in Molecular Biology* 501:175-202. [also: In: *Bacteriophages: Methods and Protocols*, Clokie M., Kropinski, A. (eds), Humana Press, USA] (invited article—this essentially is a review of techniques of phage organismal characterization; ~9,500 words, excluding references; ~50% of effort is mine)  
<http://www.ncbi.nlm.nih.gov/pubmed/19066822>
- 19) **Abedon, S. T.** (2009). Phage Evolution and Ecology. *Advances in Applied Microbiology* 67:1-45. (invited article; ~12,000 words, excluding references)  
<http://www.ncbi.nlm.nih.gov/pubmed/19245935>
- 20) Gill, J., **Abedon, S. T.**\* (2003). Bacteriophage Ecology and Plants. *APSnet Feature*, November 2003, [www.apsnet.org/online/features/phages/](http://www.apsnet.org/online/features/phages/) (invited review; ~5,000 words, excluding references; ~50% effort was mine)
- 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.** (2000). The Murky Origin of Snow White and Her T-even Dwarfs. *Genetics* 155:481-486. (historical perspective)  
<http://www.ncbi.nlm.nih.gov/pubmed/10835374>

#### **PUBLICATIONS—Journal articles, but not peer reviewed**

- 23) **Abedon, S. T.** (in press—scheduled for publication in January, 2010). The ‘Nuts and Bolts’ of Phage Therapy. *Current Pharmaceutical Biotechnology* 11(10). (editorial



highlighting the importance of the special topic issue)

- 24) **Abedon, S. T.**\*, Thomas-Abedon, C. (in press—scheduled for publication in January, 2010). Phage Therapy Pharmacology. *Current Pharmaceutical Biotechnology* 11(10). (~15,000 words excluding references; Thomas-Abedon contributed while working under my supervision)
- 25) **Kutter, E.**\*, De Vos, D., Gvasalia, G., Alavidze, Z., Gogokhia, L., Kuhl, S., Abedon, S. T. (in press—scheduled for publication in January, 2010). Phage Therapy in Clinical Practice: Treatment of Human Infections. *Current Pharmaceutical Biotechnology* 11(10). (~14,000 words excluding references)

#### **PUBLICATIONS—Book Chapters**

- 26) **Abedon, S. T.** (accepted). Communication among Phages, Bacteria, and Soil Environments. In: *Biocommunication of Soil-Bacteria and Viruses*, G. Witzany (ed), Springer (~10,000 words, excluding references)
- 27) **Abedon, S.T.** (2009). Bacteriophage Intraspecific Cooperation and Defection. In: *Contemporary Trends in Bacteriophage Research*. Horace T. Adams (ed), Nova Publishers, Hauppauge, New York, pp. 191-215. (conceptual piece; peer reviewed; ~11,000 words, excluding references) <http://books.google.com/books?id=wdZPPQAACAAJ>
- 28) **Abedon, S.T.** (2009). Impact of Phage Properties on Bacterial Survival. In: *Contemporary Trends in Bacteriophage Research*. Horace T. Adams (ed), Nova Publishers, Hauppauge, New York, pp. 217-235. (conceptual piece; peer reviewed; ~6,500 words, excluding references) <http://books.google.com/books?id=wdZPPQAACAAJ>
- 29) **Abedon, S.T.** (2009). Deconstructing Chemostats Towards Greater Phage-Modeling Precision. In: *Contemporary Trends in Bacteriophage Research*. Horace T. Adams (ed), Nova Publishers, Hauppauge, New York, pp. 249-283. (theoretical and *in silico* study; peer reviewed; ~12,000 words, excluding references) <http://books.google.com/books?id=wdZPPQAACAAJ>
- 30) **Abedon, S.T.** (2009). Disambiguating Bacteriophage Pseudolysogeny: An Historical Analysis of Lysogeny, Pseudolysogeny, and the Phage Carrier State. In: *Contemporary Trends in Bacteriophage Research*. Horace T. Adams (ed), Nova Publishers, Hauppauge, New York, 285-307 (conceptual piece; peer reviewed; ~7,500 words, excluding references) <http://books.google.com/books?id=wdZPPQAACAAJ>
- 31) **Abedon, S.T.** (2008). Phage, Ecology, Evolution. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge, pp. 1-28. (self-invited chapter; ~13,500 words including references) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 32) **Abedon, S.T.** (2008). Phage Population Growth: Constraints, Games, Adaptations In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge. pp, 64-93. (self-invited chapter; ~10,500 words including references) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 33) **Abedon, S.T.**\*, Yin, J. (2008). Impact of Spatial Structure on Phage Population Growth. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge, pp. 94-113. (self-invited chapter; ~8,000 words including references; ~60% of effort is mine) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 34) Hyman, P.\*, **Abedon, S.T.** (2008). Phage Ecology of Bacterial Pathogenesis. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge, pp.

- 353-385. (self-invited chapter; ~9,000 words, excluding references; ~40% of effort is mine) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 35) Stopar, D., **Abedon, S.T.**\* (2008). Modeling Phage Population Growth. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge, pp. 389-414. (self-invited chapter; ~8,000 words, excluding references; ~50% of effort is mine) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 36) Krone, S.M.,\*, **Abedon, S.T.** (2008). Modeling Phage Plaque Growth. In: *Bacteriophage Ecology*, Abedon, S. T. (ed), Cambridge University Press, Cambridge, pp. 415-438. (self-invited chapter; ~9,000 words, excluding references; ~50% of effort is mine) <http://books.google.com/books?id=gtPZsPXBBqIC>
- 37) **Abedon, S.T.** (2006). Phage Ecology. In: *The Bacteriophages*. Second Edition. Calendar, R., Abedon, S. T. (eds), Oxford University Press, Oxford, pp. 37-46. (invited chapter; ~5,000 words, excluding references) <http://books.google.com/books?id=nozn1K8tcRsC>
- 38) Brietbart, M., Rohwer, F., **Abedon, S.T.**\* (2005). Phage Ecology and Bacterial Pathogenesis. In: *Phages: Their Role in Bacterial Pathogenesis and Biotechnology*. Waldor, M., Friedland, D., Ahdya, S. (eds), ASM Press, Washington, DC, pp. 66-91. (invited chapter; ~10,000 words, excluding references; ~50% of effort is mine) <http://www.google.com/books?id=rneYX9h99VwC>
- 39) **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; ~7,000 words)

#### **PUBLICATIONS—Encyclopedia Articles**

- 40) Hyman, P., **Abedon, S.T.**\* (2009). Bacteriophage (Overview). *Encyclopedia of Microbiology*. Schaechter, M. (ed). Elsevier, Oxford, pp. 322-338. (invited entry; ~12,000 words, excluding references; ~50% of effort is mine)
- 41) Hyman, P., **Abedon, S.T.**\* (2009). Bacteriophage (Overview). *Desk Encyclopedia of Microbiology*. Schaechter, M. (ed). Elsevier, Oxford, pp. 166-182. (this is a republishing of Hyman and Abedon, 2009, *Encyclopedia of Microbiology*) [http://www.elsevier.com/wps/find/bookdescription.cws\\_home/719291/description#description](http://www.elsevier.com/wps/find/bookdescription.cws_home/719291/description#description)
- 42) **Abedon, S.T.**, Duffy, S., Turner, P. E.\* (2009). Bacteriophage Ecology. *Encyclopedia of Microbiology*. Schaechter, M. (ed), Elsevier, Oxford, pp. 42-57. (invited entry; ~10,500 words; 60% of effort is mine, i.e., I was the primary writer)
- 43) **Abedon, S.T.** (2008). Ecology of Viruses Infecting Bacteria. In: *Encyclopedia of Virology*, Mahy, B., van Regenmortel, M. (eds). Elsevier, Oxford, pp. 71-77. (invited entry; ~5,000 words, excluding references). [http://www.elsevier.com/wps/find/bookdescription.cws\\_home/714029/description#description](http://www.elsevier.com/wps/find/bookdescription.cws_home/714029/description#description)
- 44) **Abedon, S.T.**\*, Breitenberger, C., Williams, J., Roden, E. (2008). Ecological Processes: Respiration. *Encyclopedia of Ecology*. Jørgensen, S. E., Fath, B. D. (eds). Elsevier, Oxford, pp. 3010-3020. (invited entry; ~6,500 words, excluding references; ~40% of effort is mine) <http://www.elsevierdirect.com/brochures/ecology/index.html>

## **PUBLICATIONS—Conference proceedings**

- 45) 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, N. Düzgüneş, D. Hoestra (eds). NATO-ASI Series, Subseries H, Springer Verlag Vol. 91, p. 171-186.

## **PUBLICATIONS—Portions of Book Chapters**

- 46) **Abedon, S. T.** (2008). 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. pp. 321-324 (of 302-331) (~1000 words)
- 47) **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)

## **INVITED TALKS**

- |       |   |
|-------|---|
| 2008  | • Omnilytics, Salt Lake City, UT                                    |
| 2008  | • Ashland University, Ashland, OH                                   |
| 2008• | Int. Symp. Biological Control Bacterial Plant Diseases, Orlando, FL |
| 2008• | University of South Florida, Tampa, FL                              |
| 2008  | • University of Leicester, Leicester, England                       |
| 2008  | • Institute of Biochemistry and Biophysics, Warsaw, Poland          |
| 2008• | Catholic University of Leuven, Leuven, Belgium                      |
| 2008• | Pasteur Institute, Paris, France                                    |
| 2008• | Teagasc Moorepark Biotechnology Centre, (near) Cork, Ireland        |
| 2008  | • Yale University, New Haven, CT                                    |
| 2007  | • Society for General Microbiology meeting, Edinburgh, Scotland     |
| 2007  | • Bowling Green State University, Bowling Green, OH                 |
| 2007  | • Evergreen International Phage Meeting, Olympia, WA                |
| 2007  | • Foundation Les Treilles meeting, (near) Nice, France              |
| 2007  | • Cleveland Natural History Museum, Cleveland, OH                   |
| 2005  | • International conference on phage therapy, Tbilisi, Georgia       |
| 2004  | • Eliava Institute, Tbilisi, Georgia                                |
| 2003  | • Evergreen International Phage Meeting, Olympia, WA                |
| 2001  | • Ohio Medical College, Toledo, OH                                  |
| 2000  | • University of Ljubljana, Ljubljana, Slovenia                      |
| 2000  | • Ben Gurion University of the Negev, Beersheba, Israel             |
| 1995  | • The Ohio State University, Columbus, OH                           |

**PUBLICATIONS—Other (including online) [SERVICE]**

- 1) **Abedon, S.T.** (2009). Bacteriophages (phages). (<http://knol.google.com/k/stephen-t-abedon/bacteriophages-phages/3m1do6ac1ny5g/1>)
- 2) **Abedon, S.T.** (2007). Phage Meetings. *BEG News* 26. (editorial)
- 3) Duffy, S. \*, **Abedon, S.T.** (2007). 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.
- 4) Hyman, P. \*, **Abedon, S.T.** (2007). W.W.C. Topley and the “Missing” Phage Reference. *BEG News* 26.
- 5) **Abedon, S. T.** (2006). Phage Ecology on Wikipedia. *BEG News* 25. (editorial)
- 6) **Abedon, S. T.** (2005). Phage Books — Phage T-Shirt. *BEG News* 23. (editorial/bibliography)
- 7) **Abedon, S. T.** (2005). *BEG News*, the Final Quarterly Issue. *BEG News* 24. (editorial)
- 8) **Abedon, S. T.** (2004). ASM Conference on the New Phage Biology. *BEG News* 19. (editorial)
- 9) **Abedon, S. T.** (2004). Early (pre-1950) Phage References. *BEG News* 19. (bibliography)
- 10) **Abedon, S. T.** (2004). The Bacteriophage Literome – Part I. *BEG News* 22. (editorial)
- 11) **Abedon, S. T.** (2004). The Cyanophage Literome. *BEG News* 22. (bibliography)
- 12) **Abedon, S. T.** (2003). Some Recent Phage and Phage-Related Patents. *BEG News* 17. (bibliography)
- 13) **Abedon, S. T.** (2002). Mathematics for Microbiologists. *BEG News* 11. (editorial)
- 14) **Abedon, S. T.** (2002). Calling a Phage a “Phage”. *BEG News* 13. (editorial)
- 15) **Abedon, S. T.** (2001). How Big is  $10^{30}$ ? *BEG News* 7. (essay)
- 16) **Abedon, S. T.** (2001). The Bacteriophage Rise. *BEG News* 10. (editorial)
- 17) **Abedon, S. T.** (2000). Bacteriophages as Model Systems. *BEG News* 3. (editorial)
- 18) **Abedon, S. T.** (2000). Lytic, Lysogenic, Temperate, Chronic, Virulent, Quoi? *BEG News* 5. (editorial)
- 19) **Abedon, S. T.** (2000). Which Ecology are You? *BEG News* 6. (editorial)
- 20) **Abedon, S. T.** (1999). BEG: What are We, Where are We, and Where We’re Going. *BEG News* 1. (editorial)
- 21) **Abedon, S. T.** (1999). When Grown *In Vitro*, do Parasites of Multicellular Organisms (MOPs) become Unicellular Organism Parasites (UOPs)? *BEG News* 2. (editorial)
- 22) 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%)
- 23) **Abedon, S. T.** (1993). The isolation of T-even phages (feces -?-> P.C./PC --> gamma -> T2; Sewage -?-> T4/T6). *T4 News (February 7)*.
- 24) **Abedon, S. T.** (1992). What is an ORF? *T4 News* 6(1).
- 25) **Abedon, S. T.** (1992). Bottle lysate T4 stock preparation: What if your cultures won't clear? *T4 News* 6(1).

## WEB SITES & WEB PAGES [SERVICE]

- 1) **Abedon, S.T.** (2006-2008). Wikipedia projects:
  - [http://en.wikipedia.org/wiki/Human\\_microbiome\\_project](http://en.wikipedia.org/wiki/Human_microbiome_project) (100% my effort)
  - [http://en.wikipedia.org/wiki/Microbial\\_population\\_biology](http://en.wikipedia.org/wiki/Microbial_population_biology) (100% my effort)
  - [http://en.wikipedia.org/wiki/Phage\\_ecology](http://en.wikipedia.org/wiki/Phage_ecology) (~99% my effort)
  - [http://en.wikipedia.org/wiki/Phage\\_meetings](http://en.wikipedia.org/wiki/Phage_meetings) (100% my effort)
  - [http://en.wikipedia.org/wiki/Phage\\_monographs](http://en.wikipedia.org/wiki/Phage_monographs) (~100% my effort)
  - <http://en.wikipedia.org/wiki/Category:Bacteriophage> (50% my effort)
  - [http://en.wikipedia.org/wiki/Category:Microbial\\_population\\_biology](http://en.wikipedia.org/wiki/Category:Microbial_population_biology) (100% my effort)
  - <http://en.wikipedia.org/wiki/Category:Microbiology> (working on making comprehensive)
  - [http://en.wikipedia.org/wiki/Category:Phage\\_workers](http://en.wikipedia.org/wiki/Category:Phage_workers) (75% my effort)
- 2) **Abedon, S.T.** (2004). TheBacteriophages.org, in support of the text, *The Bacteriophages*, 2<sup>nd</sup> edition ([www.thebacteriophages.org](http://www.thebacteriophages.org)).
- 3) **Bacteriophage Ecology Group ([www.phage.org](http://www.phage.org)):**
  - **Abedon, S. T.** (1996-present). The Bacteriophage Ecology Group ([www.phage.org](http://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](http://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](http://www.phage.org/names.htm)).
- 4) **Academic Service:**
  - **Abedon, S. T.** (1996-2004). *MicroPort*. Introductory microbiology on-line lecture notes, index, and WWW portal ([www.phage.org/microbiology.htm](http://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](http://www.phage.org/biology.htm)).
  - **Abedon, S. T.** (1998-2005). Microbiology and Immunology at the Ohio State University ([www.phage.org/osumicro.htm](http://www.phage.org/osumicro.htm)), a guide to microbiology and immunology research performed on the various Ohio State University campuses.

## NOTABLE SERVICE [SERVICE]

- |           |   |
|-----------|---|
| 2009      | • Contributing to the development of a phage society (see phagesociety.org)   |
| 2008-2009 | • Contributed to the development of the vA, vB, vE naming convention for viruses proposed to the ICTV and championed by Rob Lavigne (it came out of an informal conversation held in Belgium, July, 2008) |
| 2008      | • Participated in NIH Roadmap Human Microbiome Project workshop, Bethesda, MD, March 27, Lu Wang & Jane Peterson, chairs  |
| 2007      | • Invited and gave opening talk for a two-day symposium on phage ecology at 161 <sup>st</sup> 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 *Bacteriophage Ecology Group News*
- 1998 • Chaired session, Int. Bacteriophage Biol. Meeting (Olympia, WA)
- 1996 • Founded the Bacteriophage Ecology Group ([www.phage.org](http://www.phage.org))
- 1991 • Chaired session, Int. Bacteriophage T4 Meeting (Olympia, WA)

## CONSULTING

- 2009 • PhageVax: *Ad hoc* advising, <http://phagevax.com/>
- 2003 • Omnilytics, Utah: prepared report titled, “What makes bacteriophages safe?”, <http://www.omnilytics.com/>
- 2000-present • Phage Biotech: advisory panel, <http://www.phage-biotech.com/>

## COURSES TAUGHT [TEACHING]

- Bio 102 • Human biology for non-majors; **’97, ’03 (twice)**
- Bio 113 • Intro biology for majors, freshman; **’96...’08 (>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...’08 (>10 times)**
- Micro h669 • Honors course on microbial evolution; **’05, ’07, ’09 (three times)**