

# Kevin Gene Ahern, Ph.D.

Professor Emeritus

Department of Biochemistry/Biophysics

Oregon State University (OSU)

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541-737-2305

## Education

Ph.D. (Biochemistry and Biophysics), Oregon State University (1986).

M.S. (Biochemistry), Oklahoma State University (1980).

B.S. (Zoology), Oklahoma State University (1976).

## Current Positions

**Professor Emeritus**, Dept. of Biochemistry and Biophysics, Oregon State University (2019 to Present)

**Lecturer**, The Great Courses (2019 to Present) - <https://www.thegreatcourses.com/courses/biochemistry-and-molecular-biology-how-life-works.html>

**Lecturer**, Lectorio (2014 to Present) - <https://app.lecturio.com/#/course/s/19013>

## Previous Positions

### Oregon State University

**Professor**, Dept. of Biochemistry and Biophysics, Oregon State University (2014-2018)

**Head Advisor & Chief Pre-med Advisor**, Dept. of Biochemistry and Biophysics, Oregon State University (1999-present)

**Director**, OSU STEM Leaders Program (2014-present)

**Director** for Undergraduate Research, Oregon State University (2012 to 2015)

**Director**, OSU HHMI Summer Undergraduate Research Program (1999 to 2012)

**President**, OSU Chapter of Phi Kappa Phi (2011 - 2012)

**Visiting Professor**, OSU University Honors College (2009)

**Senior Instructor**, Dept. of Biochemistry/Biophysics, Oregon State University (1999 – 2014)

**Instructor**, Dept. of Biochemistry/Biophysics, Oregon State University (1995-1999)

**Research Coordinator**, Dept. of Biochemistry/Biophysics, Oregon State University (1995-1998)

**Business Manager**, Dept. of Biochemistry/Biophysics, Oregon State University (1989-1995)

**Research Associate**, Dept. of Biochemistry/Biophysics, Oregon State University (1988-1989)

**Graduate Research Assistant**, Dept. of Biochemistry/Biophysics, Oregon State University (1981-1986)

### Publishing

**Contributing Editor**: *Science Magazine*, American Association for the Advancement of Science, 1200 New York Avenue, NW, Washington, D.C. 20005 (1998 to 2003).

**Contributing Editor**: *BioTechniques*, Eaton Publishing, One Research Drive, Suite 400A, PO Box 1070, Westborough, MA 01581-6070 (2004 to 2011)

**Contributing Editor**: *Genetic Engineering News*, Mary Ann Liebert, Inc., Publishers, 140 Huguenot Street, 3<sup>rd</sup> Floor, New Rochelle, NY 10101-5215 (1997 – 2009)

**Web Content Creator**: *Science Magazine's Functional Genomics Web site* (<http://www.sciencemag.org/feature/plus/sfg/about/about.html>), 2001.

**Editor**: *Biotechnology Software & Internet Journal*, Mary Ann Liebert, Inc., Publishers, 140 Huguenot Street, 3<sup>rd</sup> Floor, New Rochelle, NY 10101-5215 (1987-1998)

## Honors & Awards

1. Elizabeth P. Ritchie Distinguished Professor (2017)
2. Robert Foster Cherry Award for Great Teaching - semi-finalist for 2018 award – ([http://www.baylor.edu/cherry\\_awards/index.php?id=941441](http://www.baylor.edu/cherry_awards/index.php?id=941441))
3. Eminent Professor of University Honors College (2017)
4. Phi Beta Kappa Best Mentor/Advisor Award (2017)
5. Robert Foster Cherry Award for Great Teaching - semi-finalist for 2016 award - [http://www.baylor.edu/cherry\\_awards/index.php?id=927523](http://www.baylor.edu/cherry_awards/index.php?id=927523)
6. Outreach & Engagement Vice Provost Award for Excellence – Innovation Award for Open Educational Resources (2014)
7. National Academic Advising Association (NACADA) Outstanding Faculty Award for Faculty Advising (2013)
8. OSU Library Open Access Hall of Fame (2013)
9. Olaf Boedtker Award for Excellence in Advising, College of Science, Oregon State University (2011).
10. Mortar Board Top Professor (2016-17, 2015-16, 2013-14, 2012-13, 2010-11, 2009-10, 2008-09, 2007-08, 2006-07, 2004-05, 2003-04, 2001-02, 2000-01, 1998-99)
11. OSU Nominee for U.S. Professor of the Year (2009)
12. Beaver Champion Award (2008)
13. Medical Foundation of Oregon Mentor Award (2007)
14. Frederick H. Horne Award for Sustained Excellence in Teaching Science (2006)
15. Dar Reese Excellence in Advising Award (2005)
16. Olaf Boedtker Award for Excellence in Advising, College of Science, Oregon State University (2000).
17. Loyd Carter Award for Outstanding and Inspirational Teaching, College of Science, Oregon State University (1999).
18. University Honors College Instructor of the Year finalist (2003-04, 2009-10)
19. U.S. Patent #5,470,724

## Curriculum Development – Courses Created

**BB 111** (Introduction to Biochemistry & Biophysics Research; 1 credit) – basic orientation class aimed at helping incoming freshmen in the BB major adjust to campus life, learn OSU help resources, socially connect, and interact with advisors and professors to facilitate engagement in undergraduate research.

**BB 317** (Scientific Theory and Practice; 3 credits) – co-developed with Indira Rajagopal. Class to instruct students in the scientific method and to plan careers in the biochemistry/biophysics discipline. Class employs inquiry-based interactive discussion-based format to explore approaches to asking and answering research questions.

**BB 332** (Molecular Medicine; 3 credits) – synthesis class designed to serve students from a wide range of majors. Course employs an interactive, discussion-based format with students examining social, ethical, legal, and economic impacts of advances in modern medicine.

**BB 407H** (Scientists in the Public Eye; 2 credits) – Honors College class to train students in the use of scientific perspectives to improve skills for interviewing and communicating information about themselves to programs or positions of interest to them. Uses the open educational resource textbook I co-authored, *“Kevin and Indira’s Guide to Getting Into Medical School,”* in an engaging, welcoming format that includes videotaping, analysis, and cutting edge inquiry-based teaching techniques to improve verbal and written communication.

**HC 407** (Sing a Song of Science; 2 credits) – Honors College class aimed at exploring and expanding

student creativity. Student use their creativity to write and perform Metabolic Melodies of their own.

**BB 100** (Molecules of Life Online Version; 3 credits) – Online course to introduce high school students, non-major college students and anyone curious about the role of biomolecules in our lives. Uses videotaped lectures for instruction.

**BB 350** (Elementary Biochemistry Online Version; 4 credits) – Broad course surveying all of biochemistry in one term. Aimed at students in disciplines of food science, nutrition, oenology, botany/plant pathology, and basic health fields – pharmacy, physician assistant, nurse practitioner, veterinary medicine. Course employs YouTube video instruction and interactive learning materials I created, including the open educational resource textbook co-written by him, “*Biochemistry Free and Easy*.”

**BB 450/550** (General Biochemistry Part 1 Online Version; 4 credits) – First term of a two term series covering the subject of biochemistry for students majoring in the biological sciences and those on pre-professional tracks including pre-med, pre-dental, pre-optometry, pre-pharmacy, and others. Course employs novel online interactive design with YouTube video instruction and has transitioned to the new open educational resource I co-created – “*Biochemistry Free For All*.”

**BB 451/551** (General Biochemistry Part 2 Online Version; 3 credits) – Second term of a two term series covering the subject of biochemistry for students in the biological sciences and those on pre-professional tracks including pre-med, pre-dental, pre-optometry, pre-pharmacy, etc. Course employs novel online interactive design with YouTube video instruction and is transitioned to the new open educational resource I co-created – “*Biochemistry Free For All*.”

**Biochemistry for Pre-Meds** (iTunes U Course) – Non-credit interactive course derived from BB 450/550 and BB 451/551. Integrates *Biochemistry Free and Easy* book content to YouTube video instruction with online interactive quizzing (33,240 students).

**Biochemistry Free and Easy** (iTunes U Course) - Non-credit interactive course derived from BB 450/550 and BB 451/551. Integrates *Biochemistry Free and Easy* book content to YouTube video instruction with online interactive quizzing (12,021 students).

**Pre-med Primer - What Your Advisor Won't Tell You** (iTunes U Course) – Novel non-credit self-help interactive course that employs YouTube video instruction and the open educational resource textbook “*Kevin & Indira's Guide to Getting Into Medical School*” to help students prepare for medical school interviews (1619 students).

## Formal Mentoring

1. Dr. Nermin Sarigul – Assistant Professor from Mehmet Akif Ersoy University – spent winter term 2014 working with me at OSU to improve teaching skills.
2. Honors College Thesis Mentor, 2005-present (Heather Bolstad, Nancy Lee, Drew Calhoun, Tari Tan, Alex Dukes, Mark Hall, Lisa Kirkemo)
3. International Degree Thesis Mentor, 2006-present (Dawn Gaudenti, Crystal Hammer, Hannah Rains)

## Grant Funding

1. PI – NSF (#1432810) The OSU STEM Leaders Program, \$1,500,022 (9/1/14 – 8/31/19)
2. Co-PI – NSF (#0965909 ) Transition to University and Careers Program (Dan Arp, PI), \$599,983 (4/1/10 to 3/31/15)
3. Phase I SBIR Proposal for UniPrime, Inc. (“Genomic Restriction Fragment Cloning With a Single Primer”) Funded for six months (\$50,000) 1993.

4. Assisted in writing five Howard Hughes Medical Institute proposals in undergraduate biology education program.

## Educational Publications

### Textbooks (4)

4. Ahern, K., Rajagopal, I., and Tan, T. *Biochemistry Free For All* (2016) (<https://itunes.apple.com/us/book/biochemistry-free-for-all/id1149493662?mt=11>)
  - a. 37,704 downloads as of 3/20/18
3. Ahern, K. and Rajagopal, I. *Kevin and Indira's Guide to Getting Into Medical School* DaVinci Press (2013) ISBN 978-1-300-64751-5. (<https://itunes.apple.com/us/book/kevin-indiras-guide-to-getting/id595574534?mt=11>)
  - b. 23,695 downloads as of 3/20/18
2. Ahern, K. and Rajagopal, I. *Biochemistry Free and Easy*, DaVinci Press (2012) (<https://itunes.apple.com/us/book/biochemistry-free-and-easy/id548161352?mt=13>).
  - c. 211,261 downloads as of 3/20/18
1. Mathews, C.K., van Holde, K.E. and Ahern, K.G. *Biochemistry*. Third Edition. Addison Wesley Longman, Publishers, San Francisco. (2000) ISBN: 0-8053-3066-6.

### Refereed Publications (45)

45. Ahern, K. "Teaching Biochemistry Online at Oregon State University." *Biochem Mol Biol Educ* (2016). doi:10.1002/bmb.20979
44. Ahern, K. and Rajagopal, I., "Creating an Open Educational Resources e-textbook," *Genes to Genomes*, Genetics Society of America, (2015), <http://genestogenomes.org/creating-an-open-educational-resources-e-textbook/>
43. Ahern, K. "The Citric Acid Cycle" *Biochem Mol Biol Educ* (2014), 42, 510.
42. Ahern, K. "Fatty Acid Metabolism" *Biochem Mol Biol Educ* (2013), 41, 362.
41. Ahern, K. "New Serine Protease Song" *Biochem Mol Biol Educ* (2013), 41, 209
40. Ahern, K. "Henderson Hasselbalch" *Biochem Mol Biol Educ* (2012), 40, 405.
39. Ahern, K. "Pentose Phosphate Pathway" *Biochem Mol Biol Educ* (2012), 40, p. 288.
38. Ahern, K. "Around the Nucleus" *Biochem Mol Biol Educ* (2012), 40, 216.
37. Ahern, K. "Chromatin" *Biochem Mol Biol Educ* (2012), 40, 156.
36. Ahern, K. "Good Protein Synthesis" *Biochem Mol Biol Educ* (2011), 39, 468.
35. Ahern, K. "The Three R's of DNA," *Biochem Mol Biol Educ* (2011), 39, 401.
34. Ahern, K. "The Way They Work," *Biochem Mol Biol Educ* (2011), 39, 331.
33. Ahern, K. "They Call the Stuff Urea," *Biochem Mol Biol Educ* (2011), 39, p. 247.
32. Ahern, K. "To Make a Cholesterol," *Biochem Mol Biol Educ* (2011), 39, p. 80.
31. Ahern, K. "Catalyze" *Biochem Mol Biol Educ* (2010), 38, 355.
30. Ahern, K. "Photosynthesis is Divine" *Biochem Mol Biol Educ* (2010), 38, p. 58.
29. Ahern, K. "Enzymes" *Biochem Mol Biol Educ* (2009), 37, 260.
28. Rajagopal, I. and Ahern, K. "Central Dogma Zen" *Biochem Mol Biol Educ* (2009) 37, p. 68.
27. Ahern, K. "Gluconeogenesis" *Biochem Mol Biol Educ* (2008), 36, 443.
26. Ahern, K. "Biochemistry Pie" *Biochem Mol Biol Educ* (2008), 36, 380-381.
25. Ahern, K. "When Acids Are Synthesized" *Biochem Mol Biol Educ* (2008) 36, p. 243
24. Ahern, K. "Translation" *Biochem Mol Biol Educ* (2008) 36, p. 88.
23. Ahern, K. "Hemoglobin's Moving Around" *Biochem Mol Biol Educ* (2007) 35, p. 478
22. Ahern, K. "The Tao of Hormones" *Biochem Mol Biol Educ* (2007) 35, p. 226

21. Ahern, K. "When Acids Get Oxidized" *Biochem Mol Biol Educ* (2007) 35, p. 78
20. Ahern, K. "Biochemistry, Biochemistry" *Biochem Mol Biol Educ* (2006) 34, p. 427
19. Ahern, K. "The *E. coli* Song" *Biochem Mol Biol Educ* (2006) 34, p. 426
18. Ahern, K. "God Rest Ye Merry Lipoproteins" *Biochem Mol Biol Educ* (2006) 34, p. 425
17. Ahern, K. "O Little Protein Molecule" *Biochem Mol Biol Educ* (2006) 34, p. 424
16. Ahern, K. "Hark the Sucrose" *Biochem Mol Biol Educ* (2006) 34, p. 423
15. Ahern, K. "The Vegetarian's Song" *Biochem Mol Biol Educ* (2006) 34, p. 354.
14. Ahern, K. "This Biochemistry" *Biochem Mol Biol Educ* (2006) 34, p. 353.
13. Ahern, K. "Fatty Acids in Our Cells" *Biochem Mol Biol Educ* (2006) 34, p. 352.
12. Ahern, K. "The Cell's Lament" *Biochem Mol Biol Educ* (2006) 34, p. 351
11. Ahern, K. "I'm a Little Mitochondrion" *Biochem Mol Biol Educ* (2006) 34, p. 350
10. Ahern, K. "The Ribosome" *Biochem Mol Biol Educ* (2006) 34, p. 288.
9. Ahern, K. "The Codon Song" *Biochem Mol Biol Educ* (2006) 34, p. 288.
8. Ahern, K. "N-A-D" *Biochem Mol Biol Educ* (2006) 34, p. 208.
7. Ahern, K. "We All Need Just a Little ATP" *Biochem Mol Biol Educ* (2006) 34, p. 207.
6. Ahern, K. "Battle Hymn of Biochemistry" *Biochem Mol Biol Educ* (2006) 34, p. 206.
5. Ahern, K. "B-DNA" *Biochem Mol Biol Educ* (2006) 34, p. 115.
4. Ahern, K. "The Sound of Glucose" *Biochem Mol Biol Educ* (2006) 34, p. 114.
3. Ahern, K. "If You're Molecular and Know It, Clap Your Hands" *Biochem Mol Biol Educ* (2006) 34, p. 113.
2. Ahern, K. "Glucagon is Coming Around" *Biochem Mol Biol Educ* (2006) 34, p. 36.
1. Ahern, K. "En-er-gy" *Biochem Mol Biol Educ* (2006) 34, p. 35.

### Online Instructional Materials (692 YouTube total videos-4,000,174 views)

5. Ahern YouTube Channel (640 videos w/ 3,101,196 views) ([https://www.youtube.com/user/oharow?feature=mhee?&ab\\_channel=KevinAhern](https://www.youtube.com/user/oharow?feature=mhee?&ab_channel=KevinAhern))
4. OSU BB 450 YouTube Channel (27 videos w/ 306,192 views) ([https://www.youtube.com/view\\_play\\_list?p=850269AA28EF394A](https://www.youtube.com/view_play_list?p=850269AA28EF394A))
3. OSU BB 451 YouTube Channel (25 videos w/ 592,786 views) ([https://www.youtube.com/view\\_play\\_list?p=347B70A1CC0D91C6](https://www.youtube.com/view_play_list?p=347B70A1CC0D91C6))
2. Lecturio Biochemistry Lectures – 94 videos. (<https://www.lecturio.com/medical-courses/biochemistry.course>)
1. iTunes U Apple Courses (3 courses w/ 46,581 students)
  - a. Biochemistry Free and Easy - 11,958 students (<https://itunes.apple.com/us/course/introductory-biochemistry/id556383540>)
  - b. Biochemistry for Pre-meds – 33,014 students (<https://itunes.apple.com/us/course/biochemistry/id556410409>)
  - c. Pre-Med Primer: What Your Advisor Won't Tell You – 1,609 students (<https://itunes.apple.com/us/course/id595023397>)

### Biotechnology Computing-related Articles

#### Science

39 articles on technology developments and online resources between 1998 and 2002  
(for a complete listing see the Appendix at the end of this CV)

#### Biotechniques

92 "WebWatch" articles between 2004 and 2011  
(for a complete listing see the Appendix at the end of this CV)

#### Genetic Engineering News

267 “Best of the Web” or similar articles between 1997 and 2009  
(for a complete listing see the Appendix at the end of this CV)

Biotechnology Software / Biotechnology Software and Internet Journal

266 articles of multiple types between 1985 and 1998  
(for a complete listing see the Appendix at the end of this CV)

## Peer Reviewed Research Publications (13)

13. Wang K, Xu FY, Ahern KG, Pearson GD. (1991) Inverted repeats direct repair of adenovirus minichromosome ends. *Virology* 183: 44-51.
12. Ahern KG, Wang K, Xu FY, Mathews CZ, Pearson GD. (1991) Strands hybridize in postreplicative adenovirus overlap recombination. *Proc. Nat. Acad. Sci. USA.* 88: 105-9.
11. Reed RL, Ahern KG, Pearson GD, Buhler DR. (1988) Crosslinking of DNA by dehydroretroecine, a metabolite of pyrrolizidine alkaloids. *Carcinogenesis* 9: 1355-61.
10. Ahern KG, Howard PK, Firtel RA. (1988) Identification of regions essential for extrachromosomal replication and maintenance of an endogenous plasmid in *Dictyostelium*. *Nucleic Acids Research* 16: 6825-37.
9. Ahern, K., Rubino, S., Hori, R., and Firtel, R.A. “Use of Antisense Mutagenesis to Examine Gene Function During Development of *Dictyostelium discoideum*.” In Current Communications in Molecular Biology: Antisense RNA and DNA (1988).
8. Howard PK, Ahern KG, Firtel RA. (1988) Establishment of a transient expression system for *Dictyostelium discoideum*. *Nucleic Acids Research* 16: 2613-23.
7. Ahern, K.G. Ahern, K. G. (1986). “Adenovirus Replication in *Trans*: A New Replication Pathway.” Ph.D. Dissertation, Oregon State University.
6. Lee JS, Brown WE, Graham JS, Pearce G, Fox EA, Dreher TW, Ahern KG, Pearson GD, Ryan CA. (1986) Molecular characterization and phylogenetic studies of a wound-inducible proteinase inhibitor I gene in *Lycopersicon species*. *Proc. Nat. Acad. Sci. USA.* 83: 7277-81.
5. Irwin DM, Ahern KG, Pearson GD, MacGillivray RT. (1985) Characterization of the bovine prothrombin gene. *Biochemistry.* 24: 6854-61.
4. Kurath G, Ahern KG, Pearson GD, Leong JC. (1985) Molecular cloning of the six mRNA species of infectious hematopoietic necrosis virus, a fish rhabdovirus, and gene order determination by R-loop mapping. *J. Virol.* 53: 469-76.
3. Pearson GD, Chow KC, Enns RE, Ahern KG, Corden JL, Harpst JA. (1983) *In vitro* replication directed by a cloned adenovirus origin. *Gene.* 23: 293-305.
2. Enns RE, Challberg MD, Ahern KG, Chow KC, Mathews CZ, Astell CR, Pearson GD. (1983) Mutational mapping of a cloned adenovirus origin. *Gene.* 23: 307-13.
1. Ahern, K.G. (1980). “Separation and Characterization of Retinoids in Chick Bile.” Masters thesis, Oklahoma State University.

## Patents

1. Inventor of U.S. Patent # 5,470,724 awarded to Oregon State University, November, 25, 1995.

## Other Publications (20)

### Journals (3)

3. Ahern, K. “Biotechnology Company Resources on the Web” *In Situ* section of the *HMS Beagle* (online publication) (1999), *Vol.* 49.
2. Ahern, K. “A System for Reviewing Software in Scientific Journals” *CBE Views* (1999) **22**, 108.
1. Ahern, K. “Ensemble: Macintosh Database Handler” *Science Software Quarterly* , **2**, 81-82.

## Books (21)

21. Ahern, K. *Rhymes and Misdemeanors* (2020) ISBN 978-1-716-01095-8
20. Ahern, K. *Good for the Mirth* (2018) ISBN 978-0-359-47727-2
19. Ahern, K. *A Turn for the Verse* (2018) – ISBN 978-0-359-13763-3
18. Ahern, K. and Davidson, J. *Limericks Come ALIVE!* DaVinci Press (2018) ISBN 978-0-359-17720-2
17. Ahern, K. *My Many Merry Melodies*. DaVinci Press (2017) ISBN 978-1-387-39851-5
16. Ahern, K. *A Limerick a Day For a Sixth Year*. DaVinci Press (2017) ISBN 978-1-387-28265-4
15. Ahern, K. *A Limerick a Day For a Fifth Year*. DaVinci Press (2017) ISBN 978-1-365-61260-2
14. Ahern, K. *A Limerick a Day For a Fourth Year*. DaVinci Press (2016) ISBN 978-1-329-66907-9
13. Ahern, K. *Many More Metabolic and Miscellanic Melodies* . DaVinci Press (2015) ISBN 978-1-329-40809-8
12. Ahern, K. *A Limerick a Day For a Third Year*. DaVinci Press (2015) ISBN 978-1-312-76579-5
11. Ahern, K. *Kevin Ahern's 1001 Punniest Limericks*. DaVinci Press (2014) ISBN 978-1-312-35972-7
10. Ahern, K. *Merry Metabolic and Miscellanic Melodies*. DaVinci Press (2014), ISBN 978-1-312-38860-4
9. Ahern, K. *A Limerick a Day For Another Year*, DaVinci Press (2014) ISBN 978-1-304-72846-3
8. Ahern, K. *Simply Marvelous Metabolic Melodies*, DaVinci Press (2013), ISBN 978-1-304-33599-9
7. Ahern, K. *A Limerick a Day For a Year*, DaVinci Press (2013) ISBN 978-1-300-53091-6 (ISBN for e-Book version is 978-1-300-57000-4)
6. Ahern, K. *The Splendidest Ever Metabolic Melodies Songbook*, DaVinci Press (2012), ISBN 978-1-105-72994-2
5. Ahern, K. *The Latest, Greatest Wildly Popular Metabolic Melodies Songbook*. DaVinci Press (2011) ISBN: 978-1-257-79645-8.
4. Ahern, K. *The Metabolic Melodies Songbook*. DaVinci Press (2010) ISBN: 978-1-257-38828-8
3. Ahern, K. *From Rails to Roads – The Story of Fowler, Illinois*. DaVinci Press (2007) <http://www.lulu.com/content/907483>. ISBN: 978-1-257-21333-7
2. *The Biotechnology Software Directory, A Buyer's Guide* Mary Ann Liebert, Inc., Publishers, 140 Huguenot Street, 3rd Floor, New Rochelle, NY 10101-5215. (1995) ISBN: 913113-70-0.
1. *Biotechnology Software Reports, Volume 1 - Computer Applications for Molecular Biologists* Mary Ann Liebert, Inc., Publishers, 140 Huguenot Street, 3rd Floor, New Rochelle, NY 10101-5215. (1991) ISBN: 913113-51-4.

## Poems (1)

1. “Gun Control” – Light Poems of the Week - <https://lightpoetrymagazine.com/poems-of-the-week/shot-in-the-dork/>

## **Commissioned Web Sites**

1. *Science Functional Genomics* – for *Science* magazine (<http://www.Sciencemag.org/feature/plus/sfg/>)
2. *Companion Web Site to Biochemistry*, by Mathews, van Holde, Ahern (<http://www.aw-bc.com/mathews/>)

## **Commercial Ventures**

1. DaVinci Press – digital publishing company – [www.davincipress.com](http://www.davincipress.com). Established 1995
2. UniPrime, Inc. (later renamed Cascade Oncogenics) was a venture capital company (funded by the Oregon Resource Trade and Development Commission – ORTDC) created initially (1993) to commercially develop the Boomerang DNA Amplification method I invented.
3. ASAP DNA Sequence Analysis software program ©1985 K. G. Ahern and R. Durst, BiT Software Specialties, 1873 Bullevar, Philomath, OR 97370

## **Professional Meetings**

1. Voices (Virtual Ongoing Interdisciplinary Conferences on Educating with Song) – invited speaker - <https://www.causeweb.org/voices/2017/poster/1> and <https://www.causeweb.org/voices/2017/panel/2-1>
2. American Chemical Society (Portland, OR) – invited speaker 4/13/16
3. Envisioning the Future of Undergraduate STEM Education (EnFUSE): Research and Practice April 27-29 (Poster).
4. ASBMB Special Symposium on Transforming Undergraduate Education in Molecular Life Sciences 07/30/2015 (Poster)
5. Gordon Conference – Undergraduate Biology Education Research 07/12/2015 (Poster)
6. The Teaching Professor Conference, Boston, MA. Participant.
7. Northwest Partnership for Undergraduate Life Sciences Education meeting, Seattle, WA. Participant.
8. “The Rising Cost of Higher Education”, Oxford University Oxford Round Table, England (2013) - invited speaker
9. Oxford Round Table on Advancing Women in Academia, Oxford University (August, 2012) Participant
10. Pacific Branch of the Entomological Society of America (PBESA) meeting in Portland (March, 2012). Invited speaker “YouTube U, and iBooks 2: Online opportunities for instruction in the life sciences.”
11. AAC&U National Meeting in Seattle (March, 2012) Participant
12. Council of Undergraduate Research, Washington, DC (February, 2012) Participant
13. Western Region Teaching Symposium, Moscow, ID (Sept, 2011)
14. Partnering for Success – Phi Kappa Phi National Meeting (August, 2011)
15. Northwest Regional Workshop on Biology Education (February, 2011)
16. University of Oregon SUMR Programs Workshop (February, 2010)
17. Oxford Round Table on the 150<sup>th</sup> Anniversary of the Origin of the Species (August, 2009)
18. NSF Chautauqua Series – “Women and Minorities in the Sciences: How Faculty Can Make a Difference,” Washington, DC (June, 2005)
19. Sloan Professional Science Masters Program National Meeting (2003)



20. Invited Speaker - "Dancing Down the Digital Divide: The Challenge for Scientific Communicators." Seventh Biennial Biotechnology Symposium, Washington State University (April 27, 2002)."
21. OSU Representative at National HHMI Meetings on Biology Education (1999, 2003)

## Service

### Service to the University

1. College of Science Promotion and Tenure Committee (2017 to present)
2. Head Departmental Undergraduate Academic Advisor and Pre-med Advisor (1999 to present)
3. College of Science Donor Stewardship and Communication Task Force (2014 to 2015)
4. URISC Evaluation Committee (2013 to 2015)
5. Co-Chair Diversity Student Success Council (2013 to 2014)
6. University Council on Student Experience and Engagement (2009 to 2013)
7. Undergraduate Research Working Group (2009 to 2015)
8. CUE organizational committee (2009 to present)
9. URISC-START selection committee (2011)
10. Classroom Committee (2008 to 2014)
11. Classroom Building Design Committee (2011 to 2015)
12. OSU Goldwater Scholarship Committee (2007 to 2012)
13. OSU Goldwater Scholarship Committee Chair (2012 to 2014)
14. Transitional School of Life Sciences Curriculum Committee (2011 to 2014)
15. College of Science Working Group on Pre-Medical Advising (2011 to 2012)
16. College of Science Working Group on Advising in the Life Sciences (2011 to 2013)
17. College of Science Scholarship Selection Committee (2009 to 2015)
18. College of Science Curriculum Committee (1999 to present)
19. Departmental Curriculum Committee Chair (1999 to present)
20. Science Connections (Benson High School, Portland, 1996 to 2012)
21. College of Science Biology Curriculum Review Committee (2007 to 2012)
22. Sponsor/Advisor, Biochemistry and Biophysics Club, (1997 to present)
23. Information Technology Planning Committee (2010-11)
24. UHC Dean Search Committee (2007-08)
25. Advising Technology Planning Committee (2006-08)
26. COSINE Advisory Committee – College of Science (2005-07)
27. Program Development (Sloan Professional Masters, 2002-04)
28. Faculty Senator (1999-2005, 2013 to 2016)
29. Faculty Senate Senior Instructor Issues Group (2001-02)
30. Faculty Senate Committee on Faculty Economic Welfare and Retirement (2002-05)
31. Radiation Safety Committee (2000-03)
32. Biological Computing Consortium Departmental Representative (1994-95)
33. FIS Implementation Departmental Representative (1995)

### Service to the Public

1. Lecture on Electronic Education – Woodburn Public Library, July, 2014
2. Class for Adult Lifelong Learning (ALL) Lecturer (<http://oregonstate.edu/all/>), dedicated to lifelong learning, 2013
3. TRIAD Lecture – "iU: An Integrated Approach to Teaching Biochemistry", February 7, 2013
4. (Western University) Lebanon Health Career Ladder – Member of Board of Directors (2011 to 2012)
5. TRIAD Lecture – "Metabolic Melodies –Songs of Science" (April 29, 2010)
6. Science Connections - work with Benson High School biology teacher Jean Eames and her classes. 1998 to present.
7. Science Connections – work with Roosevelt High School in Portland (2005)

8. Informal work with Corvallis High School and Crescent Valley High School biology teachers Carole Beedlow and Peggy Campbell, respectively. 1998 to 2005.
9. Numerous 3D classroom demonstrations for visitors to OSU campus
10. Invited lecturer at Hewlett-Packard on Nanotechnology in Biotechnology “Challenges and Opportunities in the New Biology,” June, 2003.
11. Class for All Lecturer (<http://oregonstate.edu/all/>), dedicated to lifelong learning, Winter 2005
12. Secretary, Danforth Associates Northwest (DAN), a professional college/university teaching association of the Pacific Northwest, 1998-2000.
13. Monthly half-hour seminar for beginning computer users at Corvallis Macintosh Users Group, 1995-1998, sporadically thereafter
14. Occasional lectures to MUGPort (Macintosh User’s Group in Newport) about using computers
15. Macintosh troubleshooting consultant 1994-present.

## **APPENDIX: Complete listing of biotechnology computing-related articles**

### Science (39)

39. “Online Vector Tool.” *Science* (2002), 298, p. 1805.
38. “Eye on the Sky,” *Science* (2002), 298, p. 1253.
37. “Fitting Curves.” *Science* (2002), 298, p. 625.
36. “Online Radioactivity Detection.” *Science* (2002), 297, p. 1572.
35. “Drawing on Experience.” *Science* (2002), 297, p. 631.
34. “Educational Content Creator.” *Science* (2002), 296, p. 1489.
33. “Modeling Ecosystems.” *Science* (2002), 296, p. 1331.
32. “OS X Reference Tool.” *Science* (2002), 296, p. 935.
31. “Mathematical Art.” *Science* (2002), 295, p. 1545.
30. “Telerobot.” *Science* (2002), 295, p. 521.
29. “Protein Sequencing in the Post-Genomic Era.” *Science* (2001) 294, p. 2571-2573 (co-authored with Indira Rajagopal)
28. “Keeping Track.” *Science* (2001) 294, p. 1959.
27. “NeuroScience Learning Tool.” *Science* (2001) 294, p. 1741.
26. “Solar Weather Station.” *Science* (2001) 294, p. 1127.
25. “Imaging Wunderkind.” *Science* (2001) 293, p. 1337.
24. “Digital Analysis.” *Science* (2001) 293, p. 1167.
23. “Imaging Small Worlds.” *Science* (2001) 293, p. 885.
22. “Drawing Smartly.” *Science* (2001) 292, p. 1559.
21. “Technological Tribute.” *Science* (2001) 292, p. 1405.
20. “The Sky is the Limit.” *Science* (2001) 292, p. 945.
19. “Chemical Catalog.” *Science* (2001) 291, p. 1565.
18. “Horticultura.” *Science* (2001) 291, p. 1069.
17. “Straightdope.com” – *Science* (2001) 291, p. 795.
16. “Botany Online” - *Science* (2001) 291, p. 795.
15. “Column Tracker.” *Science* (2001) 291, p. 505.
14. “Electronic Teacher.” *Science* (2000) 290, p. 2098.
13. “Eyes on the Skies.” *Science* (2000) 290, p. 473-474b.
12. “Conquering by Dividing.” *Science* (2000) 290, p. 473.
11. “*In Silico* Bio Lab.” *Science* (2000) 289, p. 1158.
10. “World Wide World.” *Science* (2000) 289, p. 1157-1158b.
9. “Atomic Power.” *Science* (2000) 288, p. 1192.
8. “Work in Progress.” *Science* (2000) 288, p. 1192.
7. “Worldwide Weather Watcher.” *Science* (2000) 287, p. 1949.
6. “Plugging in to Visual Data.” *Science* (1999) 286, p. 2293.
5. “Premier Primer Designs.” *Science* (1999) 286, p. 433.

4. "Image Enhancement: The Eyes Have It." *Science* (1999) 284, p. 454.
3. "Digital Dating." *Science* (1999) 283, p. 1872.
2. "Beyond Expert Advice." *Science* (1998) 282: p. 55-57. (co-authored with Larry Daley)
1. "Softening Support for Macintoshes," *Science* (1998), Vol. 281, p. 529

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92. "WebWatch," *BioTechniques* (2011), Vol. 51, #5, p. 297.
91. "WebWatch," *BioTechniques* (2011), Vol. 51, #4, p. 227.
90. "WebWatch," *BioTechniques* (2011), Vol. 51, #3, p. 155.
89. "WebWatch," *BioTechniques* (2011), Vol. 51, #2, p. 83.
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85. "WebWatch," *BioTechniques* (2011), Vol. 50, #4, p. 211.
84. "WebWatch," *BioTechniques* (2011), Vol. 50, #3, p. 147.
83. "WebWatch," *BioTechniques* (2011), Vol. 50, #2, p. 85.
82. "WebWatch," *BioTechniques* (2011), Vol. 50, #1, p. 17.
81. "WebWatch," *BioTechniques* (2010), Vol. 49, #6, p. 867.
80. "WebWatch," *BioTechniques* (2010), Vol. 49, #5, p. 781.
79. "WebWatch," *BioTechniques* (2010), Vol. 49, #4, p. 695.
78. "WebWatch," *BioTechniques* (2010), Vol. 49, #3, p. 621.
77. "WebWatch," *BioTechniques* (2010), Vol. 49, #2, p. 547.
76. "WebWatch," *BioTechniques* (2010), Vol. 48, #6, p. 437.
75. "WebWatch," *BioTechniques* (2010), Vol. 48, #5, p. 359.
74. "WebWatch," *BioTechniques* (2010), Vol. 48, #4, p. 265.
73. "WebWatch," *BioTechniques* (2010), Vol. 48, #3, p. 183.
72. "WebWatch," *BioTechniques* (2010), Vol. 48, #2, p. 93.
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63. "WebWatch," *BioTechniques* (2009), Vol. 46, #4, p. 255.
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51. "WebWatch," *BioTechniques* (2008), Vol. 44, #3, p. 315.
50. "WebWatch," *BioTechniques* (2008), Vol. 44, #2, p. 177.
49. "WebWatch," *BioTechniques* (2008), Vol. 44, #1, p. 25.
48. "WebWatch," *BioTechniques* (2007), Vol. 43, #6, p. 731.
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46. "WebWatch," *BioTechniques* (2007), Vol. 43, #4, p. 405.

45. "WebWatch," *BioTechniques* (2007), Vol. 43, #3, p. 271.
44. "WebWatch," *BioTechniques* (2007), Vol. 43, #2, p. 153.
43. "WebWatch," *BioTechniques* (2007), Vol. 43, #1, p. 23.
42. "WebWatch," *BioTechniques* (2007), Vol. 42, #6, p. 679.
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38. "WebWatch," *BioTechniques* (2007), Vol. 42, #2, p. 129.
37. "WebWatch," *BioTechniques* (2007), Vol. 42, #1, p. 23.
36. "WebWatch," *BioTechniques* (2006), Vol. 41, #6, p. 665.
35. "WebWatch," *BioTechniques* (2006), Vol. 41, #5, p. 521.
34. "WebWatch," *BioTechniques* (2006), Vol. 41, #4, p. 377.
33. "WebWatch," *BioTechniques* (2006), Vol. 41, #3, p. 241.
32. "WebWatch," *BioTechniques* (2006), Vol. 41, #2, p. 129.
31. "WebWatch," *BioTechniques* (2006), Vol. 41, #1, p. 27.
30. "WebWatch," *BioTechniques* (2006), Vol. 40, #6, p. 709.
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21. "WebWatch," *BioTechniques* (2005), Vol. 39, #3, p. 293.
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19. "WebWatch," *BioTechniques* (2005), Vol. 39, #1, p. 21.
18. "WebWatch," *BioTechniques* (2005), Vol. 38, #6, p. 845.
17. "WebWatch," *BioTechniques* (2005), Vol. 38, #5, p. 677.
16. "WebWatch," *BioTechniques* (2005), Vol. 38, #4, p. 517.
15. "WebWatch," *BioTechniques* (2005), Vol. 38, #3, p. 341.
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10. "WebWatch," *BioTechniques* (2004), Vol. 37, #4, p. 515.
9. "WebWatch," *BioTechniques* (2004), Vol. 37, #3 p. 331.
8. "WebWatch," *BioTechniques* (2004), Vol. 37, #2 p. 171.
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5. "WebWatch," *BioTechniques* (2004), Vol. 36, #5 p. 739.
4. "WebWatch," *BioTechniques* (2004), Vol. 36, #4 p. 555.
3. "WebWatch," *BioTechniques* (2004), Vol. 36, #3 p. 363.
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266. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #7, p. 62
265. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #6, p. 58
264. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #5, p. 78
263. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #4, p. 58
262. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #3, p. 58

261. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #2, p. 58
260. "Best of the Web," *Gen. Eng. News* (2009), Vol. 29, #1, p. 50
259. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #21, p. 70
258. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #20, p. 70
257. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #19, p. 82
256. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #18, p. 70
255. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #17, p. 74
254. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #16, p. 74
253. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #15, p. 90
252. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #14, p. 94
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247. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #9, p. 66
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243. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #5, p. 78
242. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #4, p. 62
241. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #3, p. 34
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239. "Best of the Web," *Gen. Eng. News* (2008), Vol. 28, #1, p. 50
238. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #21, p. 62
237. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #20, p. 74
236. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #19, p. 70
235. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #18, p. 74
234. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #17, p. 78
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221. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #4, p. 58
220. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #3, p. 58
219. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #2, p. 58
218. "Best of the Web," *Gen. Eng. News* (2007), Vol. 27, #1, p. 50
217. "Best of the Web," *Gen. Eng. News* (2006), Vol. 26, #21, p. 58
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208. "Best of the Web," *Gen. Eng. News* (2006), Vol. 26, #12 p 62

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201. "Best of the Web," *Gen. Eng. News* (2006), Vol. 26, #5, p.70
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197. "WebWatch," *Gen. Eng. News* (2006), Vol. 26, #1, p. 62
196. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #21, p. 62
195. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #20, p. 50
194. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #19, p. 62
193. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #18, p. 62
192. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #17, p. 74
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182. "On the Web," *Gen. Eng. News* (2005), Vol. 25, #8, p. 78
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140. "On the Web," *Gen. Eng. News* (2003), Vol. 23, #12 p. 86.
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