

CURRICULUM VITAE

NAME: Michael T. Clegg

DATE & PLACE OF BIRTH: August 1, 1941; Pasadena, California

<u>EDUCATION:</u>	<u>Year</u>	<u>Degree</u>	<u>Institution</u>
	1969	B.S.	Agricultural Genetics University of California, Davis
	1972	Ph.D.	Genetics University of California, Davis

ACADEMIC POSITIONS HELD:

July 2014 – Present, Professor emeritus, Department of Ecology & Evolutionary Biology,
University of California, Irvine.

July 1, 2004 – June 2014, Donald Bren Professor of Biological Sciences, Department of Ecology
& Evolutionary Biology, University of California, Irvine.

July 1, 1994 – June 30, 2000, Dean, College of Natural and Agricultural Sciences, University of
California, Riverside.

July 1984 – June, 2004, Professor of Genetics, Department of Botany & Plant Sciences,
University of California, Riverside. Distinguished Professor, July 1990 - June 2004.
Presidential Chair, July 2000 – June 2003.

September 1982 – July 1984, Professor of Botany and Professor of Genetics, University of
Georgia, Athens, GA.

August 1981 - July 1982, Visiting Scientist, CSIRO, Division of Plant Industry, Canberra,
Australia.

September 1976 - September 1982 - Associate Professor of Botany and Genetics, University of
Georgia, Athens, GA.

July 1973 - August 1976, Assistant Professor of Biology, Brown University, Providence, RI.

July 1972 - July 1973, Instructor of Biology, Brown University, Providence, RI.

September 1969 - June 1972, NDEA Fellow, University of California, Davis, CA.

HONORS:

NDEA Fellowship 1969 -72

Guggenheim Fellow 1981 -82

President American Genetic Association, 1987

Member, US National Academy of Sciences, Elected 1990

Fellow, American Academy of Arts and Sciences, Elected 1992

Key Lecturer, American Genetic Association 1994

Darwin Trust Prize, Edinburgh University 1995

Award of Distinction, UC Davis College of Agriculture and Environmental Sciences, 1999

Presidential Chair, University of California, Riverside 2000 – 2002.

President-Elect, President and Past President, Society for Molecular Biology & Evolution, 2000-
2003

Nei Lecturer, Society for Molecular Biology & Evolution, Sorrento, Italy June, 2002

Chair-Elect, Chair and Past Chair; AAAS Section on Agriculture, Food and Renewable
Resources 2003-2005

Elected Foreign Secretary, US National Academy of Sciences, 2002-2006, reelected 2006-10, reelected 2010-2014.
Elected Associate Fellow, Academy of Sciences of the Developing World – Now known as the **World Academy of Sciences** (TWAS), 2006
Elected Corresponding Member of the National Academy of Exact Physical and Natural Sciences of Argentina, 2007
Elected Corresponding Member of the Academia de Agronomia and Veterinaria of Argentina, 2007.
Elected Corresponding Member of the Academia Mexicana de Ciencias, 2008.
Honorary Member Palestinian Academy of Sciences, 2009
Elected Corresponding Member Cuban Academy of Sciences, 2010
Designated Senior Fellow, California Council Science and Technology, 2010
Elected Foreign Fellow Nigerian Academy of Science, 2012
Elected Member, American Philosophical Society, 2012
Elected Foreign Corresponding Member Academy of Physical, Mathematical and Natural Sciences of Venezuela, 2012
Elected co-Chair, Inter American Network of Academies of Science 2010-13 and re-eleccted 2013-16.
Elected International Council for Science (ICSU) Vice President (external) september 2014-2017.

MAJOR SERVICE ACTIVITIES:

NIH Genetics Study Section, 1982 - 86
NSF Advisory Committee on Biological Sciences Directorate, 1992 - 1995
Commission on the Life Sciences, National Research Council, 1990 - 96
Board on Biology, National Research Council, 1990 - 2001 (Chairman 1994-1998)
Chairman, National Research Council Committee on Scientific Issues in the Endangered Species Act. 1992-1995.
Commission on Life Sciences, National Research Council, Chairman 1998-2000.
Chairman, National Research Council Committee on Status of Maine Atlantic Salmon. 2000-03
Ex Officio member, Governing Board, National Research Council (1998 -2000).
Committee of Overseers for the Department of Organismic and Evolutionary Biology,
Harvard University 1994-2006 (chair, 2000-2006).
Member of Council, National Academy of Sciences, 2002-present.
Member Council of Scientific Advisors, US Environmental Protection Agency, 2002-2007.
Chair, Gordon Conference in Molecular Evolution, 2004
Council Member, California Council on Science and Technology, 2003 – 2010.
Member California-Mexico Commission on Science and Education, 2002 – 2006.
Member Board of Governors, US-Mexico Foundation for Science (FUMEC), 2005 – 2012
(Chair 2009 – 2011).
Member, International Council of Science (ICSU) committee on Scientific Planning and Review, 2003-2009.
Member Governing Board, US-Indo Forum 2005-2013.
Member Board of the Health Effects Institute 2006-present.

EDITORIAL DUTIES:

Associate Editor, GENETICS, 1982 -88
Theoretical Population Biology, 1984 - 87
The American Naturalist, 1980 - 84
Molecular Phylogenetics and Evolution, 1992 - 2000
Co-Editor, Evolutionary Biology 1992-2003.
Editorial Board, Proceedings National Academy of Sciences USA 1995-97, 2001-2003.

PUBLICATIONS: M. T. Clegg

1. Clegg, M. T. and R. W. Allard. 1972. Patterns of genetic differentiation in the slender wild oat species *Avena barbata*. Proc. Nat. Acad. Sci. U.S.A. 69: 1820-1824.
2. Clegg, M. T., R. W. Allard, and A. L. Kahler. 1972. Is the gene the unit of selection? Evidence from two experimental plant populations. Proc. Nat. Acad. Sci. U.S.A. 69: 2472-2478.
3. Allard, R. W., G. R. Babbel, M. T. Clegg, and A. L. Kahler. 1972. Evidence for coadaptation in *Avena barbata*. Proc. Nat. Acad. Sci. U.S.A. 69: 3043-3048.
4. Clegg, M. T. and R. W. Allard. 1973. The genetics of electrophoretic variants in *Avena*. II. The esterase E1, E2, E4, E5, E6, and anodal peroxidase APX4 loci in *A. fatua*. J. Hered. 64: 3-7.
5. Clegg, M. T. and R. W. Allard. 1973. Viability versus fecundity selection in the slender wild oat, *Avena barbata* L. Science 181: 667-668.
6. Clegg, M. T. and J. F. Kidwell. 1974. Selection and mutation within and among full-sib lines. J. Hered. 65: 48-55.
7. Kahler, A. L., M. T. Clegg, and R. W. Allard. 1975. Evolutionary changes in the mating system of an experimental population of barley (*Hordeum vulgare* L.). Proc. Nat. Acad. Sci. U.S.A. 72: 943-946.
8. Clegg, M. T. 1975. Mechanisms of Evolution. In Biology Today, Chapter 32, 2nd edition. CRM Books. Del Mar, CA.
9. Allard, R. W., A. L. Kahler, and M. T. Clegg. 1975. Isozymes in plant population genetics. Proc. Third Int. Conf. on Isozymes. Acad. Press, NY, p. 261-272.
10. Clegg, M. T., J. F. Kidwell, M. G. Kidwell, and N. J. Daniel. 1976. Dynamics of correlated genetic systems. I. Selection in the region of the glued locus of *Drosophila melanogaster*. Genetics 83: 793-810.
11. Cavener, D. R. and M. T. Clegg. 1976. The genetics of glutamate oxaloacetate transaminase in *Drosophila melanogaster*. J. Hered. 67: 313-314.
12. Allard, R. W., A. L. Kahler, and M. T. Clegg. 1977. Estimation of mating cycle components of selection in plants, p. 765-792. In Christiansen, F. B. and T. M. Fenchel (eds.), Measuring Selection in Natural Populations. Springer-Verlag.
13. Kidwell, J. F., M. T. Clegg, F. M. Stewart, and T. Prout. 1977. Regions of stable equilibria for models of differential selection in the two sexes under random mating. Genetics 85: 171-183.
14. Clegg, M. T., A. L. Kahler, and R. W. Allard. 1978. Estimation of life cycle components of selection in an experimental plant population. Genetics 89: 765-792.
15. Clegg, M. T. 1978. Dynamics of correlated genetic systems. II. Simulation studies of chromosomal segments under selection. Theoretical Pop. Biol. 13: 1-23.
16. Clegg, M. T., J. F. Kidwell, and M. G. Kidwell. 1978. Dynamics of correlated genetic systems. III. Behavior of chromosomal segments under lethal selection. Genetica 48: 95-106.

17. Cavener, D. R. and M. T. Clegg. 1978. Dynamics of correlated genetic systems. IV. Multilocus effects of ethanol stress environments. *Genetics* 90: 629-644.
18. Clegg, M. T., A. L. Kahler, and R. W. Allard. 1978. Genetic demography of plant populations, p. 173-188. In Brussard, P. F. (ed.), *Genetics and Ecology: The Interface*. Springer-Verlag.
19. Stewart, F. M., M. T. Clegg, and J. F. Kidwell. 1979. Two locus models of selection and mutation within and among full-sib lines. *Theoretical Appl. Genet.* 54: 133-139.
20. Clegg, M. T., J. F. Kidwell, and C. R. Horch. 1979. Dynamics of correlated genetic systems. VI. Variation in recombination rates in experimental populations of *Drosophila melanogaster*. *J. Hered.* 70: 297-300.
21. Clegg, M. T., C. R. Horch, and J. F. Kidwell. 1980. Dynamics of correlated genetic systems. V. Rates of decay of linkage disequilibria in experimental populations of *Drosophila melanogaster*. *Genetics* 94: 217-234.
22. Clegg, M. T. 1980. Measuring plant mating systems. *Bioscience* 30: 814-818.
23. Cavener, D. R. and M. T. Clegg. 1981. Multigenic response to ethanol in *Drosophila melanogaster*. *Evolution* 35: 1-13.
24. Cavener, D. R. and M. T. Clegg. 1981. Evidence for biochemical and physiological differences between enzyme genotypes in *Drosophila melanogaster*. *Proc. Nat. Acad. Sci. USA* 78: 4444-4447.
25. Cavener, D. R. and M. T. Clegg. 1981. Temporal stability of allozyme frequencies in a natural population of *Drosophila melanogaster*. *Genetics* 98: 613-623.
26. Asmussen, M. A. and M. T. Clegg. 1981. Dynamics of the linkage disequilibrium function under models of gene frequency hitchhiking. *Genetics* 99: 337-356.
27. Rawson, J. R., M. T. Clegg, K. Thomas, C. Rinehart, and B. Wood. 1981. A restriction map of the ribosomal RNA genes and the short single-copy DNA sequence of the pearl millet chloroplast genome. *Gene* 16: 11-19.
28. Asmussen, M. A. and M. T. Clegg. 1982. Rates of decay of linkage disequilibrium under two-locus models of selection. *J. Math. Bio.* 14: 37-70.
29. Rawson, J. R. Y., K. Thomas, and M. T. Clegg. 1982. Purification of total cellular DNA from a single plant. *Biochem. Genet.* 20: 209-219.
30. Asmussen, M. A. and M. T. Clegg. 1982. Use of restriction fragment length polymorphisms in genetic counseling: Population genetic considerations. *Amer. J. Human Genet.* 34: 369-380.
31. Clegg, M. T. and D. R. Cavener. 1982. Dynamics of correlated genetic systems. VII. Demographic aspects of sex linked transmission. *Amer. Natur.* 120: 108-118.
32. Ennos, R. A. and M. T. Clegg. 1982. Effect of population substructuring on estimates of outcrossing rate in plant populations. *Heredity* 48: 283-292.

33. Clegg, M. T. and M. A. Asmussen. 1983. Use of restriction fragment polymorphism as genetic markers, p. 201-229. In Weir, B. S. (ed.), Statistical Analysis of DNA Sequence Data. Marcel Dekker, Inc., NY.
34. Brown, A. H. D and M. T. Clegg. 1983. Analysis of variation in related DNA sequences, p. 107-132. In Weir, B. S. (ed.), Statistical Analysis of DNA Sequence Data. Marcel Dekker, Inc., NY.
35. Brown, A. H. D. and M. T. Clegg. 1983. Isozyme assessment of plant genetic resources, p. 285-295. In Rattazzi, M. C., J. G. Scandalios, and G. S. Whitt (eds.), Isozymes: Current Topics in Biological and Medical Research, Vol. II. Alan R. Liss, Inc., NY.
36. Clegg, M. T. and A. H. D. Brown. 1983. The founding of plant populations, p. 216-228. In Schonewald-Cox, C. M., S. M. Chambers, B. MacBryde, and L. Thomas (eds.), Genetic and Conservation. Benjamin Cummings, Menlo Park, CA.
37. Clegg, M. T. 1983. Detection and measurement of natural selection, p. 241-255. In Tanksley, S. D. and T. J. Orton (eds.), Plant Isozymes. Elsevier Publishing Co., Amsterdam.
38. Ennos, R. A. and M. T. Clegg. 1983. Flower color variation in morning glory, *Ipomoea purpurea* Roth. (Convolvulaceae). J. Hered. 74: 247-250.
39. Clegg, M. T., J. R. Y. Rawson, and K. Thomas. 1984. Chloroplast DNA variation in pearl millet and related species. Genetics 106: 449-461.
40. Zurawski, G., M. T. Clegg, and A. H. D. Brown. 1984. The nature of nucleotide sequence divergence between barley and maize chloroplast DNA. Genetics 106: 735-749.
41. Clegg, M. T., A. H. D. Brown, and P. R. Whitfeld. 1984. Chloroplast DNA diversity in wild and cultivated barley: Implications for genetic conservation. Genet. Res. 42: 1-5.
42. Schoen, D. J., D. E. Giannasi, R. A. Ennos, and M. T. Clegg. 1984. Stem color and pleiotropy of genes determining flower color in the common morning glory, *Ipomoea purpurea* (Convolvulaceae). J. Hered. 75: 113-116.
43. Zurawski, G. and M. T. Clegg. 1984. The barley chloroplast DNA atpBE, trnM2, and trnV1 loci. Nucl. Acids Res. 12: 2549-2559.
44. Curtis, S. E. and M. T. Clegg. 1984. Molecular evolution of chloroplast DNA sequences. Mol. Bio. Evolut. 1: 291-301.
45. Brown, B. A. and M. T. Clegg. 1984. Influence of flower color polymorphism on genetic transmission in a natural population of the common morning glory, *Ipomoea purpurea*. Evolution 38: 796-803.
46. Clegg, M. T. 1984. Dynamics of multilocus genetic systems. Oxford Surv. Evolut. Biol. 1: 160-183.
47. Schoen, D. J. and M. T. Clegg. 1984. Estimation of mating system parameters when outcrossing events are correlated. Proc. Nat. Acad. Sci. USA. 81: 5258-5262.
48. Clegg, M. T. and B. K. Epperson. 1985. Recent developments in population genetics. Adv. Genet. 23: 235-269.

49. Clegg, M. T., D. J. Schoen, and B. K. Epperson. 1985. The interaction between phenotypic diversity and mating patterns in plant populations, p. 287-297. In Haeck, J. and J. W. Woldendorp (eds.), *Structure and Function of Plant Populations. II. Phenotypic and genotypic variation in plant populations*. North Holland Publ. Co., Amsterdam.
50. Schoen, D. J. and M. T. Clegg. 1985. The influence of flower color on outcrossing rate and male reproductive success in *Ipomoea purpurea*. *Evolution* 29: 1242-1249.
51. Asmussen, M. A. and M. T. Clegg. 1985. Multiallelic restriction fragment polymorphisms in genetic counseling: Population genetic considerations. *Hum. Hered.* 35: 129-142.
52. Schoen, D. J. and M. T. Clegg. 1986. Monte Carlo studies of plant mating system estimation models: The one pollen parent and mixed mating models. *Genetics* 112: 927-945.
53. Clegg, M. T., K. Ritland, and G. Zurawski. 1986. Processes of chloroplast DNA evolution, p. 275-294. In Karlin, S. and E. Nevo (eds.), *Evolutionary Processes and Theory*. Academic Press, NY
54. Clegg, M. T. 1986. Genetics of crop improvement. *Amer. Zool.* 26: 821-833.
55. Epperson, B. K. and M. T. Clegg. 1986. Spatial autocorrelation analysis of flower color polymorphisms within substructured populations of morning glory (*Ipomoea purpurea*). *Amer. Natur.* 128: 840-858.
56. Epperson, B. K. and M. T. Clegg. 1987. First-pollination primacy and pollen selection in the morning glory, *Ipomoea purpurea*. *Heredity* 54: 5-14.
57. Epperson, B. K. and M. T. Clegg. 1987. Frequency-dependent variation for out-crossing rate among color morphs of *Ipomoea purpurea*. *Evolution* 41: 1302-1311.
58. Gerlach, W. L., E. S. Dennis, W. J. Peacock, and M. T. Clegg. 1987. The *Dsl* controlling element family in maize and *Tripsacum*. *J. Molec. Evol.* 26: 329-334.
59. Ritland, K. and M. T. Clegg. 1987. Evolutionary analysis of plant DNA sequences. *Amer. Natur.* 130: S74-S100. (This paper was awarded a prize for being the best paper published in the Amer. Natur. in 1987)
60. Zurawski, G. and M. T. Clegg. 1987. Evolution of higher plant chloroplast DNA-encoded genes: Implications for structure-function and phylogenetic studies. *Ann. Rev. Plant Physiol.* 38: 391-418.
61. Clegg, M. T. 1987. Preface to plant molecular evolution. *Amer. Natur.* 130: S1-S5.
62. Tucker, M. L., M. L. Durbin, M. T. Clegg, and L. N. Lewis. 1987. Avocado cellulase: nucleotide sequence of a full-length cDNA clone and evidence for a small gene family. *Plant Molec. Biol.* 9: 197-204.
63. Epperson, B. K. and M. T. Clegg. 1987. Instability at a flower color locus in the morning glory. *J. Hered.* 78: 346-352.
64. Epperson, B. K. and M. T. Clegg. 1988. Genetics of flower color polymorphism in the common morning glory, *Ipomoea purpurea*. *J. Hered.* 79: 64-68.

65. Clegg, M. T. and B. K. Epperson. 1988. Natural selection on flower color polymorphisms in morning glory populations, p. 255-273. In Gottlieb, L. and S. K. Jain (eds.), *Plant Evolutionary Biology*. Chapman-Hall Ltd., London.
66. Learn, G. H., M. L. Durbin, and M. T. Clegg. 1988. A gene for tRNA-Ile (CAU) from the chloroplasts of a monocot, *Pennisetum americanum*. *Nucleic Acids Res.* 16: 4734.
67. Gepts, P. and M. T. Clegg. 1989. Genetic diversity in pearl millet (*Pennisetum glaucum* (L.) R. Br.) at the DNA sequence level. *J. Hered.* 80: 203-208.
68. Clegg, M. T. 1989. Analyses of molecular diversity within and among plant species, p. 51-56. In Helentjaris, T. and B. Burr (eds.), *Current Communications in Molecular Biology*. Cold Springs Harbor, NY.
69. Clegg, M. T. 1989. Molecular diversity in plant populations, p. 99-116. In Brown, A. H. D., M. T. Clegg, A. L. Kahler, and B. S. Weir (eds.), *Plant Population Genetics, Breeding, and Genetic Resources*. Sinauer Assoc., Sunderland, MA.
70. Ritland, K and M. T. Clegg. 1990. Optimal DNA sequence divergence for testing phylogenetic hypotheses. In, *Molecular Evolution* (M. T. Clegg & S. J. O'Brien, eds) Alan R. Liss, New York. pp289-296.
71. Clegg, M. T. 1990. Dating the monocot-dicot divergence. *Trends Ecol. Evol.* 5: 1-2.
72. Golenberg, E. M., D. E. Giannasi, M. T. Clegg, C. J. Smiley, M. Durbin, D. Henderson and G. Zurawski. 1990. Chloroplast DNA sequence from a miocene Magnolia species. *Nature* 344: 656-658.
73. Fournier, G. R., M. P. Cummings and M. T. Clegg. 1990. Evolution of the avocados as revealed by DNA restriction fragment variation. *J. Heredity* 81: 183-188.
74. Wilson, M. A., B. Gaut and M. T. Clegg. 1990. Chloroplast DNA evolves slowly in the palm family (Arecaceae). *Molec Biol Evol.* 7: 303-314.
75. Doebley, J., M. Durbin, E. M. Golenberg, M. T. Clegg and D. P. Ma. 1990. Evolutionary analysis of the large subunit of carboxylase (rbcL) nucleotide sequence among the grasses (Gramineae). *Evolution*. 44: 1097-1108.
76. Clegg, M. T. and M. L. Durbin. 1990. Molecular approaches to the study of plant biosystematics. *Australian Systematic Botany*. 3: 1-8.
78. MacRae, A. F., G. H. Learn, M. Kerjala and M. T. Clegg. 1990. Presence of an activator (Ac) - like sequence in Pennisetum glaucum (pearl millet). *Plant Molec Biol.* 15: 177-179.
79. Soltis, D. E., P. S. Soltis, M. T. Clegg and M. L. Durbin. 1990. *rbcL* sequence divergence in the Saxifragaceae sensu lato. *Proc Natl Acad Sci USA* 87: 4640-4644.
80. Clegg, M. T., G. H. Learn and E. M. Golenberg. 1991. Molecular evolution of Chloroplast DNA. Chapter 7 In, *Evolution at the Molecular Level* (R. K. Selander, A. G. Clark and T. S. Whittam, eds.) Sinauer Associates, Sunderland, MA. pp135-149.

81. Clegg, M. T. and G. Zurawski. 1991. Chloroplast DNA and the study of plant phylogeny: Present status and future prospects. Chapter 1 In, Molecular Systematics of Plants. D. E. Soltis, P. S. Soltis and J. J. Doyle (eds.) Chapman and Hall. pp1-13
82. Gaut, B. S. and M. T. Clegg. 1991. Molecular evolution of *Alcohol dehydrogenase 1* in members of the grass family. Proc. Natl. Acad. Sci. USA. 88: 2060-2064.
83. Taylor, G. E. jr, L. F. Pitelka and M. T. Clegg. 1991. Introduction to Ecological Genetics and Air Pollution. Taylor, G. E. jr, L. F. Pitelka and M. T. Clegg (eds.). Springer-Verlag, New York. Chapter 1 pp1-10.
84. Learn, G. H., J. S. Shore, G. R. Furnier, G. Zurawski and M. T. Clegg. 1992. Constraints on the evolution of chloroplast introns: the intron in the gene encoding tRNA-Val (UAC). Molec. Biol. Evol. 9: 856-871.
85. Giannasi, D. E., G. Zurawski, G. H. Learn and M. T. Clegg. 1992. Evolutionary relationships of the Caryophyllidae based on comparative rbcL sequences. Systematic Bot. 17: 1-15.
86. Epperson, B. K. and M. T. Clegg. 1992. Unstable white flower color genes and their derivatives in the morning glory. J. Heredity 83: 405-409.
87. Clegg, M. T., B. K. Epperson and A. H. D Brown. 1992. Genetic diversity and reproductive system. In, Reproductive Biology and Plant Breeding. Y. Dattee, C. Dumas & A. Gallais (eds). Springer-Verlag, Berlin. pp 311- 324.
88. Gaut, B. S., S. V. Muse, W. D. Clark and M. T. Clegg. 1992. Relative rates of nucleotide substitution at the rbcL locus in monocotyledonous plants. in press. J. Molec. Evol. 35: 292-303.
89. MacRae, A. F. and M. T. Clegg. 1992. Evolution of Ac and Ds1 elements in select grasses (Poaceae). Genetica 86: 55-66.
90. Clegg, M. T. 1993. Chloroplast gene sequences and the study of plant evolution. Proc. Natl. Acad. Sci. USA. 90: 363-367.
91. Duvall, M. R., G. H. Learn, L. E. Eguiarte and M. T. Clegg. 1993. Phylogenetic analysis of rbcL sequences identifies *Acorus calamus* as the primal extant monocotyledon. Proc. Natl. Acad. Sci. USA. 90: 4641-4644.
92. Gaut, B. S. and M. T. Clegg. 1993. Molecular evolution of the *Adh1* locus in the genus *Zea*. Proc. Natl. Acad. Sci. USA 90: 5095-5099.
93. Golenberg, E. M., M. T. Clegg, M. L. Durbin, J. Doebley and D. P. MA. 1993. Evolution of a noncoding region of the chloroplast genome. Molec. Phylogenetics & Evol. 2: 52-64.
94. Zurawski, G. and M. T. Clegg. 1993. *rbcL* sequence data and phylogenetic reconstruction in seed plants: Foreward. Ann. Mo. Bot. Gard. 80: 523-525. (nonrefereed invited contribution).
95. Duvall, M. R., M. T. Clegg, M. W. Chase, W. D. Clark, J. W. Kress, E. A. Zimmer, H. G.

- Hills, L. E. Eguiarte, J. F. Smith, B. S. Gaut and G. H. Learn. 1993 . Phylogenetic hypotheses for the Monocotyledons constructed from *rbcL* sequence data. Ann. Mo. Bot. Gard. 80: 607-619.
96. Clegg, M. T. 1993. Molecular evaluation of plant genetic resources. pp 67 - 85. In, Gene Conservation and Exploitation. J. P. Gustafson, R. Appels and P. Raven (eds). 20th Stadler Genetics Symposium. Plenum Press, New York.
97. Gaut, B. S., S. V. Muse and M. T. Clegg. 1993. Relative rates of nucleotide substitution in the chloroplast genome. Molec. Phylogenetics & Evol. 2: 89-96
98. Morton, B. and M. T. Clegg. 1993. Hotspots for insertion/deletion mutation in noncoding regions of the chloroplast genome. Current Genetics 24: 357-365.
99. Clegg, M. T., B. S. Gaut, M. R. Duvall and J. Davis. 1993. Inferring plant evolutionary history from molecular data. New Zealand J. Bot. 31: 307-316.
100. Gaut, B. S. and M. T. Clegg. 1993. Nucleotide polymorphism in the *Adh1* locus of pearl millet (*Pennisetum glaucum*) (Poaceae). Genetics 135: 1091-1097.
101. Clark W. D., B. S. Gaut, M. R. Duvall and M. T. Clegg. 1993. Phylogenetic relationships of the Bromeliiflorae-Commeliniflorae- Zingiberifloae complex of monocots. Ann. Mo. Bot. Gard. 80: 987-998.
102. Clegg, M. T. 1994. Dedication: Robert W. Allard plant population geneticist and agronomist. Plant Breeding Reviews. 12: 1-17. (nonrefereed invited contribution)
104. Clegg, M. T., B. S. Gaut, J. H. Learn jr and B. R. Morton. 1994. Rates and patterns of chloroplast DNA evolution. Proc. Natl. Acad. Sci. USA 91: 6795-6801.
105. MacRae, A. F., G. A. Huttley and M. T. Clegg. 1994. Molecular evolutionary characterization of an Activator (Ac)-like transposable element sequence from pearl millet (*Pennisetum glaucum*) (Poaceae). Genetica 92: 77-89.
106. Eguiarte, L. E., M. R. Duvall, G. H. Learn and M. T. Clegg. 1994. The systematic status of the Agavaceae and the Nolinaceae related Asparagales in the Monocotyledons: an analysis based on the *rbcL* gene sequence. Bol. Soc. Mexico 54: 35- 56.
107. Huttley, G., A. F. MacRae and M. T. Clegg. 1995. Molecular evolution of the Ac/Ds transposable element family in pearl millet and other grasses. Genetics 139: 1411-1419.
108. Durbin, M. L., G. H. Learn, G. A. Huttley and M. T. Clegg. 1995. Evolution of the chalcone synthase gene family in the genus Ipomoea. Proc. Natl. Acad. Sci. USA 92: 3338-3342.
109. Morton, B. R. and M. T. Clegg. 1995. Neighboring base composition is strongly correlated with base substitution bias in a region of the chloroplast genome. J. Molec Evol 41: 597-603.
110. Clegg, M. T. 1995. Conserving biological diversity: an evolutionary perspective.

111. Glover, D. E., M. L. Durbin, G. Huttley and M. T. Clegg. 1996. Genetic diversity in the common morning glory. *Plant Species Biology*. 11: 41-50.
112. Gaut, B. S., Morton, B. R., McCaig, B. and M. T. Clegg. 1996. Substitution rate comparisons between grasses and palms: Rate differences at the nuclear gene Adh parallel rate differences at the plastid gene rbcL. *Proc Natl Acad Sci USA* 93: 10274-10279.
113. Morton, B. R., B. S. Gaut and M. T. Clegg. 1996. Evolution of alcohol dehydrogenase genes in the palm and grass families. *Proc Natl Acad Sci USA* 93: 11735-11739.
114. Clegg, M. T. 1997. Plant genetic diversity and the struggle to measure selection. *J. Hered.* 88:1-7.
115. Huttley, G. A., M. L. Durbin, D. E. Glover and M. T. Clegg. 1997 Nucleotide polymorphism in the chalcone synthase-A locus and evolution of the chalcone synthase multigene family of common morning glory (*Ipomoea purpurea*). *Molec Ecol.* 6: 549-558.
116. Clegg, M. T., M. P. Cummings and M. L. Durbin. 1997. The evolution of plant nuclear genes. *Proc Natl Acad Sci. USA* 94: 7791-7798.
117. Morton, B. R., V. M. Oberholzer and M. T. Clegg. 1997. The influence of specific neighboring bases on substitution dynamics in noncoding regions of the plant chloroplast genome. *J. Molec. Evol.* 45: 227 - 231.
118. Cummings, M. P. and M. T. Clegg. 1998. Nucleotide sequence diversity at the alcohol dehydrogenase I locus in wild barley (*Hordeum vulgare* ssp. *spontaneum*): An evaluation of the background selection hypothesis. *Proc. Natl. Acad. Sci. USA.* 95: 5637-5642.
119. Clegg, M. T., M. Kobayashi and L. Francis. 1998. Outcrossing in Avocado: Is there a relationship with fruit yield? *Subtropical Fruit news* 6: 24- 28.
120. Davis, J., D. Henderson, K. Kobayashi, M. T. Clegg and M. T. Clegg. 1998. Genealogical relationships among cultivated avocado as revealed through RFLP analyses. *J. Heredity* 89: 319-323.
121. Clegg, M. T. 1999. The role of recombination in plant genome evolution. In "Evolutionary Processes and Theory", S. P. Waser, ed. Kluwer Academic Publishers, The Netherlands.
122. Gaut, B. S., A. S. Peek, B. R. Morton, and M. T. Clegg. 1999. Patterns of genetic diversification within the *adh* gene family in the grasses (Poaceae). *Molec. Biol. Evol* 16:1086-1097.
123. Clegg, M. T., M. Kobayashi and J.-Z. Lin. 1999. The use of molecular markers in the management and improvement of avocado (*Persea americana* Mill.) Proc. 4th International Avocado Congress. Revista Chapingo Serie: Horticultura Vol V Num Especial: 227-231.

124. Oberholzer, V., M. L. Durbin and M. T. Clegg. 2000. Comparative genomics of chalcone synthase and Myb genes in the grass family. *Genes and Genetic Systems*. 75: 1-16.
125. Durbin, M. L., B. McCaig and M. T. Clegg. 2000. Molecular evolution of chalcone synthase multigene family in the morning glory genome. *Plant Molec Biol*. 42: 79-92.
126. Clegg, M. T. 2000. Limits to knowledge in population genetics. Chapter 2 pp 35-51, In *Limits to Knowledge in Evolutionary Genetics*, M.. T. Clegg, M. K. Hecht and R. J. MacIntyre eds. Vol 32 *Evolutionary Biology*. Plenum Press, New York.
127. Kobayashi, M., J.-Z. Lin, J. Davis, L. Frances and M. T. Clegg. 2000. Quantitative analysis of avocado outcrossing and yield using RAPD markers. *Sciencia Horticultae* 86: 135-149.
128. Clegg, M. T. and M. L. Durbin. 2000. Flower color variation: a model for the experimental study of evolution. *Proc Natl Acad Sci USA*. 97: 7016-7023.
129. Ayala, F. J., W. M. Fitch and M. T. Clegg. 2000. Variation and evolution in plants and microorganisms: Toward a new synthesis 50 years after Stebbins. *Proc. Natl. Acad. Sci. USA*. 97: 6941-6944.
130. Lin, J.-Z., A.H. D. Brown and M. T. Clegg. 2001. Heterogeneous Geographic Patterns of Nucleotide Sequence Diversity between Two Alcohol Dehydrogenase Genes in Wild Barley (*Hordeum vulgare* ssp. *spontaneum*). *Proc. Natl. Acad. Sci. USA*. 98:531-536.
132. Durbin, M. L., A. Denton and M. T. Clegg. 2001. Dynamics of Mobile Element Activity in Chalcone Synthase Loci in the Common Morning Glory (*Ipomoea Purpurea*). *Proc. Natl. Acad. Sci. USA*. 98: 5084-5089.
133. Clegg, M. T. 2002. Current and future prospects of genomics and biotechnology in agriculture. In, *Proceedings of a Multilateral Symposium between the Korean Academy of Science and Technology and the Foreign Academies*. Pp 3-20.
134. Lin, J.-Z. P. L. Morrell and M. T. Clegg. 2002. The Influence of Linkage and Inbreeding on Patterns of Nucleotide Sequence Diversity at Duplicate Alcohol Dehydrogenase Loci in Wild Barley (*Hordeum vulgare* ssp. *spontaneum*). *GENETICS* 169: 2007-2015.
135. Vogl, C., J. Badger, P. Kearney, M. Li, M. T. Clegg and T. Jaing. 2003. Probabilistic Analysis Indicates Discordant Gene trees in Chloroplast Evolution. *J. Molec Evol*. 56(3): 330-340.
136. Clegg, M. T. and M. L. Durbin. 2003. Tracing floral adaptations from ecology to molecules. *Nature Reviews Genetics*. 4: 206-215.
137. Durbin, M. L., K. E. Lundy, P. L. Morrell, C. L. Torres-Martinez, and M.T. Clegg. 2003. Flower color determining genes: the role of regulatory changes in the evolution of phenotypic adaptations. *Molecular Phylogenetics and Evolution* 29: 507-518.
138. Jia, L., M. T. Clegg and T. Jaing. 2003. Excess nonsynonymous substitutions suggest that positive selection episodes operated in the DNA-binding domain evolution of *Arabidopsis R2R3-MYB* genes. *Plant Molec. Biol*.52: 627-642.

139. Morrell, P. L., K. E. Lundy and M. T. Clegg. 2003. Distinct geographic patterns of genetic diversity are maintained in wild barley (*Hordeum vulgare* ssp. *spontaneum*) despite migration. Proc Natl Acad Sci USA 100: 10812-10817.
140. Ashworth, V. E. T. M. and M. T. Clegg. 2003. Genealogical relationships among cultivated avocado (*Persea americana* Mill) genotypes inferred from microsatellite markers. J. Heredity 94: 407-415..
141. Ashworth, V. E. T. M., M. C. Kobayashi, M. de la Cruz and M. T. Clegg. 2004. Microsatellite markers in avocado (*Persea Americana* Mill.). I. Developing dinucleotide and trinucleotide markers. Sciencia Horticultae 101: 255-267.
142. Clegg, M. T. 2004. Population genetics. In, *Encyclopedia of Plant & Crop Science* R. Goodman, Ed. Marcel Dekker, Inc New York. Pp 1042- 1045.
143. Clegg, M. T. 2004. Plant molecular evolution. In, *Encyclopedia of Plant & Crop Science* R. Goodman, Ed. Marcel Dekker, Inc New York. Pp 748-752.
144. Clegg, M. T. and P. L. Morrell. 2004. Bioinformatics. In, *Encyclopedia of Plant & Crop Science* R. Goodman, Ed. Marcel Dekker, Inc New York. Pp 125 –129.
145. Clegg, M. T. and P. L. Morrell. 2004. Mutational Processes. In, *Encyclopedia of Plant & Crop Science* R. Goodman, Ed. Marcel Dekker, Inc New York. Pp 760 – 762.
146. Jia, L., M.T. Clegg and T. Jaing. 2004. Evolution dynamics of the DNA-binding domains in putative R2R3-MYB genes identified from *Oryza sativa* ssp. *indicca* and *japonica* genomes. Plant Physiol. 134: 575-585.
147. Morrell, P. L., Toleno, D. M., Lundy, K. E. and Clegg, M. T. 2005. Low levels of linkage disequilibrium in wild barley (*Hordeum vulgare* ssp. *spontaneum*), despite high rates of self-fertilization Proc Natl. Acad. Sci. USA 102: 2442-2447.
148. Morrell, P. L., D. M. Toleno, K. E. Lundy and M. T. Clegg. 2006. Estimating the contribution of mutation, recombination, and gene conversion in the generation of haplotypic diversity. Genetics 173: 1705-1723.
149. Clegg, M. T. 2006. Science and the future of humanity. Pp 47-58 in “*Energy for Sustainable Development and Science for the Future of the Islamic World and Humanity*” Eds. Mehmet Ergin and Moneef Zou’bi. Published by Islamic World Academy of Sciences. Amman, Jordan ISBN 9957-412-08-6. pp 465.
150. Clegg, M. T. 2006. Robert Wayne Allard: A biographical Memoir. National Academy of Sciences. Biographical Memoirs. Pp 21.
151. Vanessa E. T. M. Ashworth, H. Chen, and M. T. Clegg. 2006. AVOCADO. In The Genome Mapping and Molecular Breeding Vol IV Fruit and Nut Crops. Ed. Chittaramjan Kole. (Springer Verlag)
152. Morrell, P. L. and M. T. Clegg. 2007. Genetic evidence for a second domestication of barley (*Hordeum vulgare*) east of the Fertile Crescent. Proc Natl Acad Sci 104: 3289-3294.

153. Toleno, D. M., P. L. Morrell and M. T. Clegg. 2007. Error detection in SNP data by considering the likelihood of recombinational history implied by three-site combinations. *Bioinformatics* 23:1807-1814.
154. Chen, H., Ashworth, V. E. T. M., Xu, S. and M. T. Clegg. 2007. Quantitative genetic analysis of growth rate in avocado. *J. Am. Soc. Hort. Sci.* 132(5):691–696.
155. Chanderbali, A. S., V. A. Albert, V. E. T. M. Ashworth, M. T. Clegg, R. E. Litz, D. E. Soltis and P. S. Soltis. 2008. *Persea americana* (avocado): bringing ancient flowers to fruit in the genomics era. *Bioessays* 29: 1-11.
156. Chen, H., Morrell, P. L., de la Cruz, M. and M. T. Clegg. 2008. Nucleotide Diversity and Linkage Disequilibrium in Wild Avocado (*Persea americana* Mill.). *J. Heredity* 99: 382-389.
157. Garner L. C., V. E. T. M. Ashworth, M. T. Clegg and C. J. Lovatt. 2008. The impact of outcrossing on yields of ‘Hass’ avocado. *J. Amer. Soc. Hort. Sci.* 133 (5): 648–652.
158. Clegg, M. T. 2008. What can genetics tell us about plant domestication? *Anales de la Academia de Agronomia y Veterinaria de Buenos Aires, Republica Argentina*. Tomo LXI pp 402-412.
159. Pastrana, J. S. and M. T. Clegg. 2008. US Cuba Scientific Relations. *Science* 322: 345.
160. Clegg, M. T. 2008. The role of international scientific organizations. In, *Science as a Gateway to Understanding*. Eds, Glenn Schweitzer and Yousef Sobouti. National Academy Press, Washington DC. Pp 173.
161. Chen, H., P. L. Morrell, V. E. T. M. Ashworth, M. de la Cruz, and M. T. Clegg 2009. Tracing the geographic origins of major avocado cultivars. *J. Heredity* 100: 56-65.
162. Clegg, M. T. and J. P. Boright. 2009. Adapting to the future: The role of science academies in capacity building. *International Journal of Technology Management (UK)* 46: 108 - 118.
163. Luo M. C., K. R. Deal, E. D. Akhunov, A. R. Akhunova, O. D. Anderson, J. A. Anderson, N. Blake, M. T. Clegg, D. Coleman-Derr, E. E. Conley, C. C. Crossman, J. Dubcovsky, B. S. Gill, Y. Q. Gu, J. Hadam, H. Heo, N. Huo, G. Lazo, Y. Ma, D. E. Matthews, P. E. McGuire, P. L. Morrell, C. O. Qualset, J. Renfro, D. Tabanao, L. E. Talbert, C. Tian, D. M. Toleno, M. L. Warburton, F. M. You, W. Zhang, and J. Dvorak 2009. Genome comparisons reveal a dominant mechanism of chromosome number reduction in grasses and accelerated genome evolution in Triticeae. *Proc Natl Acad Sci USA* 106: 15780-15785.
164. Toleno, D. M., Durbin, M. L., Lundy, K. E. and M. T. Clegg . 2010. Extensive evolutionary rate variation in floral color determining genes in the genus *Ipomoea*. *Plant Species Biol* 25: 30-42.
165. Chen, H., Morrell, P. L., Toleno, D. M., Lundy, K. E., Clegg, M. T. 2010. Allele-Specific PCR Can Improve the Efficiency of Experimental Resolution of Heterozygotes in Resequencing Studies. *Molec Ecol Resources* 10: 647-658.
166. Akhunov ED, Akhunova AR, Anderson OD, Anderson JA, Blake N, Clegg MT, Coleman-Derr D,

- Conley EJ, Crossman CC, Deal KR, Dubcovsky J, Gill BS, Gu YQ, Hadam J, Heo HY, Huo N, Lazo G, Luo MC, Ma YQ, Matthews DE, McGuire PE, Morrel PE, Qualset CO, Renfro J, Tabanao D, Talbert LE, Tian C, Toleno D, Warburton, M., You F, Zhang W, and Dvorak J. 2010. Nucleotide diversity maps reveal variation in diversity among wheat genomes and chromosomes. *BMC Genomics* 2010, 11:702
167. Morrell, P. M. and M. T. Clegg. 2011. HORDEUM. In, *Wild Crop Relatives: Genomic & Breeding Resources*, Vol 1: *Cereals*. Editor, Chittaramjan Kole. (Springer –Verlag, Heidelberg). Pp 309 – 319.
168. Ashworth, V. E. T. M., H. Chen and M. T. Clegg. 2011. PERSEA. In, *Wealth of Wild Crop Relatives: Genetic, Genomic & Breeding Resources*, Vol 7: *Wild Relatives of Tropical and Subtropical Fruits*. Editor, Chittaramjan Kole. (Springer Verlag). Pp173-189.
169. Gonzales, A. M., Z. Fang, M L. Durbin, K. K.T. Meyer, M. T. Clegg, P. L. Morrell. 2012. Nucleotide sequence diversity of floral pigment genes in *Ipomoea purpurea* (morning glory) accord with a neutral model of evolution. *J. Heredity* 103: 863-872.
170. Clegg, M. T. 2012. Ciencia pela Diplomacia e Diplomacia pela Cienecia (Science for Diplomacy and Diplomacy for Science). *Politica Externa*. 21:95-106. (published in Portuguese)
171. Calderón-Vázquez, C., M. L. Durbin, V. E. T. M Ashworth, L. Tommasini, K. K. T. Meyer and M. T. Clegg. 2013. Quantitative genetic analysis of three important nutritive traits in the fruit of avocado (*Persea americana* Mill.) *J. Amer. Soc. Hort. Sci.* 138: 283-289.
172. Clegg, M. T. 2013. Sustainable Development: A Global Imperative. Pages 69 – 80 In, *Science “Technology and Innovaiton for Sustainable Development in the Islamic World: Policies and Politics Rapprochement.”* Eds, Mehmet Ergin and Moneef R. Zou’bi. Islamic World Academies of Sciences, Amman, Jordan.
173. Clegg, M. T. 2013. Science Academies as Advosirs to Government: The US Experience. Pages 139 – 144 In, *Science “Technology and Innovaiton for Sustainable Development in the Islamic World: Policies and Politics Rapprochement.”* Eds, Mehmet Ergin and Moneef R. Zou’bi. Islamic World Academies of Sciences, Amman, Jordan.
174. Fang, Z., A. M. Gonzales, M. L. Durbin, K. K.T. Meyer, B. H. Miller, K. M. Volz, M. T. Clegg, and P. L. Morrell. 2013. Tracing the geographic origins of weedy *Ipomoea purpurea* in the Southeastern United States. *J. Heredity* 104: 666-677.
175. Morrell, P. L., A. M. Gonzales, K. K.T. Meyer, M. T. Clegg. 2014. Resequencing data indicate a modest effect of domestication on diversity in barley, a cultigen with multiple origins. *J. Heredity*. 105: 253-264.
176. Fang, Z., A. M. Gonzales, M. T. Clegg, K. P. Smith, G. J. Muehlbauer, B. J. Steffenson,[‡] P. L. Morrell. 2014. Two genomic regions contribute disproportionately to geographic differentiation in wild barley. *G3 Genes/Genomes/Genetics*. 4: 1- 11.
177. Clegg, M. T. 2014. Cuban Know-how may aid US storm and climate resilience. *New Scientist*. 15:33.

178. Clegg, M. T., J. A. Asenjo and A. de la Cruz. 2015. The Inter American Network of Academies of Science: An example of Science-Based cooperation in the Americas. AAAS Science & Diplomacy. 03.30.2015.
179. Poets, A. M., Z. Fang, M. T. Clegg, and P. L. Morrell. 2015. Barley landraces are characterized by geographically heterogeneous genomic origins. *Genome Biology*. 16: 173. DOI: 10.1186/s13059-015-0712-3. URL: <http://www.genomebiology.com/2015/16/1/173>

REPORTS

1. Clegg, M. T., L. V. Giddings, C. S. Lewis and J. H. Barton. 1993. Rice Biosaftey: Report of the international consultation on rice biosaftey in Southeast Asia. World Bank Technical paper. Biotechnology Series No. 1 1993. pp 63.
2. Fisher, W., Fritz, L. W., Heiken, G. H., MacMahon, J. A., Nielson, D.. R., Nigg, J. M., Nriagu, J. O., Price, R. A., Sarewitz, D. R., and Stein, B., A. 2000. USGS: Evolving to meet the Nation's Needs for Earth-Science Information. National Academy of Sciences Press, Washington, DC.
3. Clegg, M. T., P. Barten, I. A. Fleming, M. R. Gross, L. S. Incze, A. R. Kapuscinski, P. O'Brien, B. Neis, N. Ryman, P. E. Smouse, J. L. Speckler, R. P. Stockney and J. G. Sutinen.. 2002. Genetic Status of Atlantic Salmon in Maine. National Academy of Sciences Press, Washington DC. Pp 61.
4. Clegg, M. T., C. Garza, J. Kimble and C. D. Mote. 2012. U. S. and International Perspectives on Global Science Policy and Science Diplomacy: Report of a workshop. National Academies Press, Washington DC. Pp50.
5. Frank, A. Collins, M. G., Clegg, M., Dieckmann, U., Kremenyuk, V., Kryazhimskiy, A., Linnerooth-Bayer, J., Levin, S., Lo, A., Ramalingam, B., Ramo, J., Roy, S., Saari, D., Shtauber, Z., Sigmund, K., Tepperman, J., Thurner, S., Yiwei, W., and von Winterfeldt, D. 2012. Security in the age of systemic risk: Strategies, tatics and options for dealing with femtorisks and beyond. Interim report IR-12-010. International Institute for Applied Systems Analysis. Laxenburg, Austria.
6. Pickering, T. R., A. A. F. Mahmoud, C. Bertini, K. C. Brill, Th. Burns, M. T. Clegg, G. T. Daigger, K. Hughes, C. R. Jebb, M. T. Jones, R. M. Perito, B. Pierce, E. B. Simmons, S. H. Vermund and D. G. Victor. 2015. Diplomacy for the 21st Century: embedding a culture of Science and Technology Throughout the Department of State. The National Academies Press. Washington DC. Pp 177.

BOOKS

1. Fristrom, J. W. and M. T. Clegg. 1988. *Principles of Genetics*. 2nd Edition. Chiron Press, New York.
2. Brown, A. H. D., M. T. Clegg, A. L. Kahler & B. S. Weir, eds 1989 *Population Genetics, Plant Breeding and Genetic Conservation*. Sinauer Associates, Sunderland, MA. (449 pages)

3. Clegg, M. T. and S. J. O'Brien, eds. 1990. *Molecular Evolution*. Alan R. Liss, New York. (322 pages).
4. Taylor, G. E. jr, L. F. Pitelka and M. T. Clegg, eds. 1991. *Ecological Genetics and Air Pollution*. Springer-Verlag, New York. 359pp
5. Clegg, M. T., Brown, G. M., Brown, W. Y., Fink, W. L., Harte, J., Houck, O. A., Lynch, M., Murphy, D.D., O'Brien, P. Y., Pickett, S. T. A., Pulliam, H. R., Ralls, K., Simpson, B. B., Sparrow, R.D., Steadman, D.W., Sweeney, J. M. 1995. *Science and the Endangered Species Act*. National Academy of Press, Washington, DC pp 271.
6. Clegg, M. T. 2000. *Limits to knowledge in Evolutionary Genetics*. Vol 32 Evolutionary Biology. Series eds M. K. Hecht, R. J. MacIntyre and M. T. Clegg. Plenum Press, New York.
7. Ayala, F. J., W. M. Fitch and M. T. Clegg. 2000. *Variation and evolution in plants and microorganisms: Toward a new synthesis 50 years after Stebbins*. National Academy Press, Washington, DC. Pp 340.
8. Clegg, M. T., P. Barten, I. A. Fleming, M. R. Gross, L. S. Incze, A. R. Kapuscinski, P. O'Brien, B. Neis, N. Ryman, P. E. Smouse, J. L. Speckler, R. P. Stockney and J. G. Sutinen.. 2004. Atlantic Salmon in Maine. National Academy of Sciences Press, Washington DC. Pp 275.
9. Ayala, F. J., Alberts, B., Berenbaum, M. R., Carvellas, B., Clegg, M. T., Dalrymple, G. B., Hazen, R. M., Horn, T. M., Moran, N. A., Omenn, G. S., Pennock, R. T., Raven, P. H., Schaal, B. A., Tyson, N. deG., Wichman, H. 2008. *Science, Evolution, and Creationism*. The National Academies Press, Washington DC. Pp72