

CURRICULUM VITAE

NB: Items highlighted in yellow are relevant to research in the physics of organisms

Name: Mae-Wan Ho
 Date of Birth: 12 November 1941
 Place of Birth: Hong Kong
 Citizenship: United Kingdom
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Educational

1964 Hong Kong University, B.Sc. Biology and Chemistry 1st Class
 1968 Hong Kong University, Ph. D. Biochemistry

Awards & Recognition

1964 Chan Kai Ming's Prize for Biological Sciences
 1964-1967 Hong Kong Government Postgraduate Studentship
 1971-1974 Fellow of the National Genetics Society, USA (one of five national awardees)
 1998 Vida Sana Award for work on Biosafety and Biotechnology
 Guest of Honour at Women of the Year Luncheon & Assembly
 2003 Fellow of the Royal Society of Arts
 2006 Integrity in Science Award, Weston A. Price Foundation
 2007 World's Inspiration Woman
 2008 Navdanya Navratna Gandhi Award

Academic Appointments

1967-1968 Demonstrator in biochemistry, Hong Kong University
 1968 (Feb-Aug) Postdoctoral Fellow, University of Southern California
 Department of Neurosciences, School of Medicine
 1968-1971 Postdoctoral Fellow, University of California, San Diego,
 Department of Neurosciences, School of Medicine
 1971-1972 Research Fellow, University of California, San Diego,
 Department of Neurosciences, School of Medicine, and Fellow
 of the National Genetics Society, USA.
 1972-1974 Research Fellow, University of London, Queen Elizabeth
 College, Department of Biochemistry, and Fellow of the
 National Genetics Society USA.
 1974-1977 Senior Research Fellow, University of London,
 Queen Elizabeth College, Department of Biochemistry
 1976-1985 Lecturer in Genetics, Open University, Biology
 Discipline
 1978-1979 Honorary Research Fellow, University of London,
 University College, Department of Human Genetics and Biometrics
 1985-2000 Reader in Biology. Open University

1988-1989	Honorary Research Fellow, New York University Medical Department of Physiology and Biophysics, New York.
1999	Faculty for International Honours Program on Global Ecology (Bard College, USA): Integrating Nature and Culture
1996-	Faculty member for Jungian Conference in Assisi on "The Confluence of Matter and Spirit: Patterning in the Psyche and in Archetypal Fields" Lectures on "Organism and Psyche", Brattleboro, USA
1998	Academic Advisor to Theoretical Biology Post Graduate Programme, Centre for Theoretical Studies and Charles University, Prague, Czech Republic
2000	Scientific Advisor to Interdisciplinary University, Paris, France
2001-2003	Visiting Reader, Open University
2001-	Visiting Professor, Institute of Physics, Catania University, Sicily
2005-2007	Honorary Research Fellow, Biophysics Group, Pharmacy Department, King's College, London University

Other Appointments

1994-	Scientific Advisor, Third World Network
1999	Editorial Board, The Ecologist
1999-	Director, Institute of Science in Society
2002-	Editor and Art Director, Science in Society
2001-	Roster of experts, Cartagena Biosafety Protocol

Research - *Project Grant Awards*

1971-1974	Fellowship of the National Genetics Foundation USA (one of five national awardees)US\$18 000-20 000 p.a.over three years
1972-1975	MRC Research Grant for β -Galactosidase Isoenzymes in Hereditary Diseases £30 000
1974-1977	MRC Project Grant for Glycolipid Turnover and Lysosomal Function £70 000
1979-1980	Open University Research Project Grant for Genetics and Epigenetics of Adaptation in <i>Drosophila</i> ~£10 000?
1980-1981	Open University Research Project Grant for Genetics of Adaptation in <i>Drosophila</i> ~£10 000?
1980-1983	Nuffield Foundation Project Grant for Biochemistry, Genetics and Evolution of Lactase Persistence in Human Populations £36 000
1981	Open University Research Project Grant extension £13000
1983-1984	Nuffield Foundation Project Grant Extension for Biochemistry, Genetics and Evolution of Lactase Persistence £14 000
1983-1984	Open University Research Project Grant for Preparation of mRNA from Human Foetal Jejunum and <i>In vitro</i> Translation of Lactase message £?
1984-1985	Wellcome Trust Project Grant on Investigations on Lactase Biosynthesis with Monoclonal Antibodies £23 000
1984-1985	Open University Research Committee Grant for the Molecular Basis of Lactase Persistence £16 000
1984	Open University Research Committee Grant for 'Molecular Cloning of Lactase mRNA in λ gt11'£4500
1985-1988	MRC Project Grant on the Molecular Basis of Lactase Persistence £85 000
1985-1988	Open University Research Project Grant for Dynamics of

1985-1986	Segmentation in <i>Drosophila melanogaster</i> £40 000 Open University Research Project Grant on Lactase Biosynthesis and Transport £13 000
1989	Open University project grant on Electrical Activities and Pattern Formation in <i>Drosophila</i> £6 500
1991	Fetzer Foundation small project grant for investigating possible Bohm-Aharanov phenomenon in biological pattern formation US\$9 000
1993-1994	Open University Research Committee Project Grant on Noninvasive Interference Colour Vital Imaging £32 000
1995-1996	EPSRC-LINK Project Grant on Noninvasive Imaging on Colour and Energetics of living organisms £80 000 with matching £75 000 contribution from industry in equipment and consultancy. <i>Final report rated alpha-4 "Very significant contribution to the field"</i>
1998	Goldsmith Foundation grant £20 000 for personal secondment to genetic engineering information center and biophysics research
1999	Goldsmith Foundation grant £20 000 for establishing Institute of Science in Society (ISIS)
2000-2006	Goldsmith Foundation grant various support for ISIS
2004-2006	Foundation pour une Terre Humaine grant support for ISIS
2007-2010	Salvia Foundation grant support for ISIS

Patents and Inventions

1995	UK Patent on Polarized Light Microscopy GB2270774A
1996	US Patent on Polarized Light Microscopy US5559630
1996	UK Patent on Collagen and Ultrasound Therapy pending UK Patent on Collagen and Subtle Energy Medicine pending

Travel Grants/Fellowships

1975	Royal Society Travel Grant to Neurochemistry Society Conference, Barcelona, Spain £300
1977	Open University Travel Grant to Conference on Dynamics and Regulation of Evolving Systems, Schloss Elmau, Germany £250
1979	Open University Travel Grant to Conference of the International Society for the Study of Time, Alpbach, Austria £300
1980	Open University Travel Grant to Conference on Dialectics of Biology and Society, Bressanone £250
1981	Open University Travel Grant to Conference on Evolution and Environment, Czechoslovakia, Academy of Science £165
1981	Royal Society Travel Grant to Conference on Evolution and Environment, Brno, Czechoslovakia £165
1983	Royal Society Travel Grant to Conference on Mathematics in Biology and Medicine £450
1984	Nuffield Foundation Small Grants for `Molecular Cloning of Lactase mRNA in the Expression Vector λ gt11' £2300
1984	Royal Society study visit grant for `Molecular Cloning of Lactase in λ gt11' £1340
1985	Open University Travel Grant to Third Schnierla Conference in Comparative Psychology, New York £450
1987	Open University Travel Grant to Comparative Psychology Conference in Costa Rica £500

1987	Open University Travel Grant to Conference on Evolution in Prague, Czechoslovakia £350
1995	Royal Society European Exchange Fellowship to International Institute of Biophysics for study on photon emission from biological systems £850
1997	Italian Atomic Energy Research Fund to Institute of Physics, Catania University, for photon emission from biological systems, £1000
1999	Italian Biophysics Foundation, photon emission from biological Systems, £1000
2000	Italian National Research Support, collagen & biological water £1600
2001-2002	Italian National Research Support, collagen & biological water £1600
2009	British Council grant for Conference on Evolution and the Future in Belgrade

Other Activities

1979-present	Attended numerous invited conferences (including an open debate on evolution with Ernst Mayr organized by the late Paul Feyerband in ETH, Switzerland in 1991) and given many informal seminars and public lectures both within UK and abroad on all areas of research, especially evolution, genetic engineering, physics of organisms. Much in demand as speaker on the new organic science paradigm
1982-present	Refereed papers for <i>Journal of Theoretical Biology</i> , <i>Biochem. J.</i> , <i>Biochem. Biophys. Acta</i> , <i>Am. J. Human Genetics</i> , <i>J. Biophysic</i> , <i>J. of Consciousness Studies</i> , <i>Microbial Ecology in Health and Disease</i> , etc.
1982-present	Book reviews for <i>Endeavour</i> , <i>Sesame</i> , <i>Circular of the Paleontological Association</i> , <i>Annals of Human Genetics</i> , <i>Heredity</i> , <i>New Scientist</i> and <i>Times Higher Education Supplement</i> , etc.
1988-present	Refereed grants for Research Councils in Canada and U.K, Rumania,.
1986	Poem published in <i>Spokes</i> as a result of a competition.
1989	Paintings published in a scientific book.
1994	Two paintings published in magazine in connection with an article on art and science
1982 –present	Many Interviews given to media on evolution, genetics, genetic engineering, physics of organisms all over the world (at least 30 countries)
1994-present	Scientific Advisor to the Third World Network on Biotechnology and Biosafety; attended many UN Biosafety Conferences also some WTO conferences on issues surrounding Modern Biotechnology, drafted numerous reports; made numerous submissions to govts all over the world on biosafety and biotechnology
1999- present	Co-founder & Director of Institute of Science in Society to promote public understanding of science, socially responsible and science for sustainable living.
2002- present	Founder and Editor of <i>Science in Society</i> magazine
2007	Panel of experts for WHO/FAO consultation on GM food animals

Publications (Incomplete listing)

Books - Research

1. *Beyond neoDarwinism: An Introduction to the New Evolutionary Paradigm*. M.W. Ho and P.T.Saunders (eds), Academic Press, 1984.
2. *Evolutionary Processes and Metaphors*, M.W. Ho and S.W. Fox, eds., Wiley, 1988.
3. *The Rainbow and the Worm - The Physics of Organisms*, M.W. Ho, World Scientific, Singapore, 1993.
4. *Bioelectrodynamics and Biocommunication*, M.W. Ho, F.A. Popp, and U. Warnke, eds., World Scientific, Singapore, 1994.
5. *Bioenergetics*, M.W. Ho (ed), Open University Press, Milton Keynes.
6. *Genetic Engineering Dream or Nightmare? The Brave New World of Bad Science and Big Business*, M.W. Ho, Gateway Books, Bath, 1998. (Translated into many languages including Spanish, Italian, German, Chinese, Japanese, Polish, Turkish, Czech and Korean).
7. *The Rainbow and the Worm - The Physics of Organisms*, 2nd (enlarged) Edition, M.W. Ho, World Scientific, Singapore, 1998; reprinted 2000, 2001, 2003.
8. *Genetic Engineering Dream or Nightmare? Turning the Tide on The Brave New World of Bad Science and Big Business*, 2nd edition, M.W. Ho, Gateway, Gill & Macmillan, 1999.
9. *Living with the Fluid Genome*, M.W. Ho, ISIS and TWN, London and Penang, 2003.
10. *Energy and Information Transfer in Biological Systems, How Physics Could Enrich Biological Understanding*, (F. Musumeci, L Brizik and MW Ho eds., World Scientific, Singapore, 2003.
11. Ho MW, Lim LC et al. *The Case for a GM-Free Sustainable World*, Independent Science Panel Report, TWN & ISIS, Penang and London 2003, translated into Spanish, French and Indonesian.
12. Ho MW, Burcher S, Gala R and Vejkovic V. *Unravelling AIDS*, Vital Health Publishing, 2006
13. Ho MW, Bunyard P, Saunders P, Bravo E and Gala R. *Which Energy?* ISIS Energy Report, 2006.
14. Ho MW. *The Rainbow and the Worm, The Physics of Organisms*, 3rd edition, World Scientific, 2008.
15. Ho MW, Burcher S. Lim LC, et al. *Food Futures Now, Organic, Sustainable, Fossil Fuel Free*, ISIS TWN Report, 2008.
16. Ho MW, Cherry B, Burcher S and Saunders PT. *Green Energies, 100% Renewables by 2050*, ISIS TWN, 2009.
17. *Love of the Magician, a post-modernist integration of science and human experience*, M.W. Ho (in preparation).

Booklets on genetic engineering, biosafety, and social responsibility

1. *Fatal Flaws in Food Safety Assessment: Critique of The Joint FAO/WHO Biotechnology and Food Safety Report*, M.W. Ho and R.A. Steinbrecher, Third World Network, Penang, 1998.
2. *Gene Technology and the Etiology of Infectious Diseases*. M.W. Ho et al, Third World Network, 1998.
3. *Biotechnology Patents Are Patently Absurd*. M.W. Ho, Third World Network, Penang, 2001.
4. *Horizontal Gene Transfer, The Hidden Hazards of Genetic Engineering*, M.W. Ho, Third World Network, Penang, 2001.
5. *Slipping Through the Regulatory Net: 'Naked' and 'Free' Nucleic Acids*, M.W. Ho, A. Ryan, J. Cummins and T. Traavik, Third World Network Biotechnology Series, Third World Network, Penang, 2001.

6. *The Golden Rice: An Exercise on How Not to Do Science*, Mae-Wan Ho, Third World Network Biotechnology Series, Third World Network, Penang, 2002.
7. *FAQs on Genetic Engineering*, M.W. Ho, Third World Network Biotechnology Series, Third World Network, Penang, 2002.
8. Ho MW, Novotny E, Webber P, Daniels EE et al. *Towards a Convention on Knowledge*, ISIS publications, August 2002.

OU textbooks

1. *Molecular Genetics, Unit 6, S299 Genetics, An Open University Second Level Course*, M.W. Ho, Open University Press, 1976.
2. *Species and Speciation, Unit 12, S364 Evolution, An Open University Third Level Course*, M.W. Ho, Open University Press, 1981.
3. *Macroevolution and Development, Unit 13, S364 Evolution, An Open University Third Level Course*, M.W. Ho, Open University Press, 1981.
4. *The Process of Heredity*. M.W. Ho and B. C. Goodwin, Genetics S298 Unit 1, Open University Press, Milton Keynes, 1987.
5. *Regulation of Gene Expression in Bacteria and Viruses, Genetics S298 Unit 7*. M.W. Ho, Open University Press, Milton Keynes, 1987.
6. *Regulation of Gene Expression in Eukaryotes, Genetics S298 Unit 8*. M.W. Ho. Open University Press, Milton Keynes, 1987.
7. *Genes in Populations, Genetics S298 Units 11 & 12*. M.W. Ho. Open University Press, Milton Keynes, 1987.
8. *Techniques and Exercises in Molecular Genetics*, Genetics S298 Supplement, S. Plakidou and M.W. Ho. Open University Press, Milton Keynes, 1987.
9. Energy in biological systems. M.W. Ho In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp 7-11, Open University Press, Milton Keynes, 1995.
10. Thermodynamics and energy flow, M.W. Ho. In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp 12-50, Open University Press, Milton Keynes, 1995.
11. Enzymes -flexi-molecular energy machines. M.W. Ho. In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp 51-74, Open University Press, Milton Keynes, 1995.
12. Choreographer and dancer. M.W. Ho. In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp117-138, Open University Press, Milton Keynes, 1995.
13. The energetics of the four-minute mile. M.W. Ho and D. Harris. In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp 186-234, Open University Press, Milton Keynes, 1995.
14. How to be a vibrant coherent whole. M.W. Ho In *Bioenergetics Book 2, S327, An Open University Third Level Course* (M.W. Ho, ed.), pp 235-240, Open University Press, Milton Keynes, 1995.
15. The moral responsibility of scientists, A case study. M.W. Ho in *Science and the Public*, Open University M.Sc. Course, 1998.

Papers in Refereed Journals

1. Morphine Cancels Effect of Magnesium on Hormone-Sensitive Uptake of Glucose by Muscle. E. O'F. Walsh and M.W. Poon (maiden name). *Nature (Lond)* **215**: 525-26, 1967.
2. Effects of Morphine on the Hormonal Control of Metabolism - IV. Morphine induced Changes in Sensitivity of Glucose-uptake system of Muscle to

- Extracellular Magnesium. M.W. Poon, M.L. Ng and E. O'F. Walsh. *Biochem. Pharmacol.* **7**: 1575-80, 1968.
3. β -Galactosidase Deficiency in Hurler's Syndrome. M. MacBrinn, S. Okada, M. Wollacott,
 4. V. Patel, M.W. Ho, A.L. Tappel and J.S. O'Brien. *New Eng. J. Med.* **281**: 338-43, 1969.
 5. Generalised Gangliosidosis: Impaired Cleavage of Galactose from a Mucopolysaccharide and a Glycoprotein. M.C. MacBrinn, S. Okada, M.W. Ho, C.C. Hu and J.S. O'Brien. *Science*, **163**: 964-67, 1969.
 6. Hurler's Syndrome: Deficiency of a Specific β -Galactosidase Isoenzyme. M.W. Ho and J.S. O'Brien. *Science*, **165**: 611-13, 1969.
 7. Stimulation of Acid β -Galactosidase Activity By Chloride Ions. M.W. Ho and J.S. O'Brien. *Clin. Chim. Acta*, **30**: 531-34, 1970.
 8. Ganglioside Storage Diseases. J.S. O'Brien, S. Okada, M.W. Ho, D.L. Fillerup, M.L. Veath and K. Adams. In *Lipid Storage Diseases*, pp 225-273, Academic Press, New York, 1971.
 9. Ganglioside Storage Diseases. J.S. O'Brien, S. Okada, M.W. Ho, D.L. Fillerup, M.L. Veath and K. Adams. *Fed. Proc.*, **30**: 956-69, 1971.
 10. Differential Effect of Chloride Ions on β -Galactosidase Isoenzymes: A Method for Separate Assay. M.W. Ho and J.S. O'Brien. *Clin. chim. Acta*, **32**, 223-36, 1971.
 11. Gaucher's disease: Deficiency of 'Acid' β -Glucosidase and Reconstitution of Enzyme Activity *in vitro* I. M.W. Ho and J.S. O'Brien. *Proc. Nat. Acad. Sci. USA*, **68**: 2810-13, 1971.
 12. Adult Gaucher's Disease: Kindred Studies and Demonstration of a Deficiency of Acid β -Glucosidase in Cultured Fibroblasts. M.W. Ho, J. Seck, D. Schmidt, L. Veath, W. Johnson, R.O. Brady and J.S. O'Brien. *Am. J. Hum. Genet.* **24**: 37-45, 1972.
 13. I-cell Disease: Biochemical Studies. J.G. Leroy, M.W. Ho, M.C. MacBrinn, K. Zielke, J. Jacob and J.S. O'Brien. *Ped. Res.* 1972.
 14. Fabry's Disease: Evidence for a Physically Altered β -Galactosidase. M.W. Ho, S. Beutler, L. Tennant and J.S. O'Brien. *Am. J. Hum. Genet.* **24**: 256-266, 1972. (Reprinted in *Biochemical Basis of Inherited Human Diseases*. MSS Information Corporation, New York, 1973.
 15. Ceramide Trihexoside β -Galactosidase: Kinetic Properties and Alterations in Fabry's Disease. M.W. Ho. *Fed. Proc.* **31**: 437, 1972.
 16. Glucocerebrosidase: Reconstitution of Activity from Macromolecular Components. M.W. Ho, J.S. O'Brien, N.S. Radin and J.S. Erickson. *Biochem. J.* **131**: 173-76, 1973.
 17. Hydrolysis of Ceramide Trihexoside by a Specific β -Galactosidase from Human Liver. M.W. Ho, *Biochem. J.* **133**: 1-10, 1973
 18. Hydrolysis of GM S1 S ganglioside by Human Liver β -Galactosidase Isoenzymes. M.W. Ho, P. Cheetham and D. Robinson, *Biochem. J.* **136**: 351-59, 1973.
 19. Identity of Acid β -Glucosidase and Glucocerebrosidase in Human Spleen. M.W. Ho, *Biochem. J.* **136**: 721-29, 1973.
 20. Glucocerebrosidase: Reconstitution from Multiple components Depends on Acidic Phospholipids. M.W. Ho and N.D. Light, *Biochem. J.* **136** 821-823. 1973.
 21. GM-S1 S Gangliosidosis Type II. J.S. O'Brien, M.W. Ho, M.L. Veath, J.F. Wilson, G. J.M. Optiz, G.M. Zurheim, J.W. Spranger, H.A. Hartman, B. Haneberg and F.R. Gross. *Clin. Genet.* **3**: 411-434, 1974.
 22. Glucocerebrosidase: Stoichiometry of Association between Effector and Catalytic Proteins. M.W. Ho and M. Rigby. *Biochem. Biophys. Acta.* **396**, 267-73, 1975.

23. Specificity of Low Molecular Weight Glycoprotein Effector of Lipid Glycosidase. M.W. Ho, *FEBS Letters* . **53**: 243-47, 1975.
24. Chloride Ions Cancel Out Inhibition of β -Galactosidase Activity by Acid Mucopolysaccharides. M.W. Ho and A. Fluharty. *Nature* (Lond) **253**:660. 1975.
25. Genetic Heterogeneity in GM S1 S Gangliosidoses. H. Galjaard, A. Hoogeveen, W. H.a. de Wit-Verbeed, A.J.J. Reuser, M.W. Ho and D. Robinson. *Nature* (Lond) **254**: 6062, 1975.
26. The Glycolipid Storage Disease. M.W. Ho. *Medikon* **6**: 3-12, 1977.
27. On the Increase in Complexity in Evolution. P.T. Saunders and M.W. Ho. *J. Theor. Biol* **63**: 375-84, 1976
28. In Defence of Complexity. P.T. Saunders and M.W. Ho. *J. Theor. Biol* . **68**: 235-37, 1977.
29. Glycophingolipid Storage Disease: Biochemistry and Genetics. M.W. Ho, A.G.W. Norden and J.A. Alhadeff. *Mol. Cell. Biochem* . **17**: 125138, 1977.
30. Beyond neo-Darwinism: an Epigenetic Approach to Evolution. M.W. Ho and P.T. Saunders, *J. Theor. Biol* . **78**: 573-91, 1979.
31. What is the Unit of Natural Selection? M.W. Ho and P.T. Saunders. *Evolution Theory* **5**: 169-72, 1981.
32. Alternatives to biological reductionism – a report on a recent conference. M.W. Ho and A. Muir. *Scientia* **115**, 701-6, 1981.
33. On the increase in Complexity in Evolution. II. The Relativity of Complexity and the Principle of Minimum Increase. P.T. Saunders and M.W. Ho. *J. Theor. Biol* . **90**: 515-30, 1981.
34. Lactase Polymorphism in Adult British Natives. Estimating Allele Frequencies by Enzyme Assays. M.W. Ho, S. Povey and D. Swallow. *Am. J. Human Genetics* **34**; 650-657, 1982.
35. Effect of Successive Generations of Ether Treatment on Penetrance and Expression of the *Bithorax* Phenocopy. M.W. Ho, C. Tucker, D. Keeley and P.T. Saunders. *J. exp. Zool* **225**: 1-12, 1983.
36. The *Bithorax* Phenocopy and Pattern Formation. I. Spatiotemporal Characteristics of the Phenoopy Response. M.W. Ho, E. Bolton and P.T. Saunders. *Exp. Cell Biol* . **51**: 282-290, 1983.
37. The *Bithorax* Phenocopy and Pattern Formation. II. A Model of Prepattern Formation. M.W. Ho, P.T. Saunders and E. Bolton. *Exp. Cell Biol* . **51**: 291-299, 1983.
38. Is neo-Darwinism Falsifiable and Does it Matter? P.T. Saunders and M.W. Ho. *Nature and Systems* **4**: 179-196, 1982
39. Where does Biological Form Come From? M.W. Ho. *Revista di Biologia* **77**: 147-79, 1984.
40. Human Lactase and the Molecular Basis of Lactase Persistence. J. Potter, H.W. Ho, H. Bolton, A. Furth, D. Swallow and B. Griffiths. *Biochem. Genetics* **23**: 423-39, 1985.
41. Preparation of a Monoclonal Antibody to Human Lactase. D. Swallow, J. Potter, F. Green and M.W. Ho. *J. Immunol. Methods* **77**: 139-45, 1985.
42. Primary and Secondary Waves in Development. P.T. Saunders and M.W. Ho *J. Theor. Biol* **114**: 491-504, 1985.
43. A New Paradigm for Evolution. M.W. Ho, P.T. Saunders and S.W. Fox. *New Scientist* **27 Feb.**, 41-43, 1986.
44. Heredity as Process: Towards a Radical Reformulation of Heredity. M.W. Ho *Rivista di Biologia* **79**: 407-47, 1986.
45. Through a neo-Darwinian Glass Darkly. M.W. Ho, P.T. Saunders and S.W. Fox *BioEssays* **6**: 3-4, 1987.

46. Evolution by Process, not by Consequence Implications of the New Molecular Genetics on Development and Evolution. M.W. Ho *International J. Comp. Psychology* **1**: 3-27, 1987.
47. How Rational can Rational Morphology Be? M.W. Ho *Rivista di Biologia* **81**:11-55, 1988.
48. Isolation of a cDNA probe for a Human Jejunal Brush-border Hydrolase, Sucrase-isomaltase and Assignment of the Gene Locus to Chromosome 3 Green, F., Edwards, Y., Hauri, H.P., Povey, S., Ho, M.W., Pinto, M. and Swallow, D. *Gene* **57**:101-10, 1987.
49. Ether-induced Disturbances to Segmentation in *Drosophila melanogaster*. M.W. Ho, A Matheson, P.T. Saunders, B.C. Goodwin and A Smallcombe. *Roux's Arch Devel. Biol* 511-21, 1987.
50. An Exercise in Rational Taxonomy. M.W. Ho. *J. theor. Biol.* **147**: 43-57, 1990.
51. Mosaic Pattern of Lactase Expression by Villous Enterocytes in Human Adult-type Hypolactasia. Maiuri, L., Raia, V., Potter, J., Swallow, D., Ho, M.W., Fiocca, R., Finzi, G., Cornaggia, M., Capella, D., Quaroni, D. and Auricchio, S. *Gastroenterology* **100**: 359-69, 1991.
52. Re-animating Nature: the Integration of Science with Human Experience. Ho, M.W. *Leonardo* **24**: 607-615, 1991.
53. The Role of Action in Evolution: Evolution by Process and the Ecological Approach to Evolution. M.W. Ho. *Cultural Dynamics* **4**: 336-54, 1991.
54. Brief Exposure to Weak Static Magnetic Fields during Early Embryogenesis Cause Cuticular Pattern Abnormalities in *Drosophila* larvae. Ho, M.W., Stone, T., Jerman, I., Bolton, J., Bolton, H., Goodwin, B.C., Saunders, P.T. and Robertson, F. *Physics in Biology and Medicine* **37** (5): 1171-9, 1992.
55. Electrodynamics Activities and Their Role in the Organization of Body Pattern. Ho, M.W., S., Bolton, H., Popp, F.A., and Xu, X.J. *Scientific Exploration* **6**: 59-77, 1992.
56. Development, Rational Taxonomy and Systematics. M.W. Ho *Rivista di Biologia* **85** (2): 293-311, 1992.
57. A Universal Developmental Mechanism for Hutchinson's rule. M.W. Ho *Rivista di Biologia* **85**: 385-9, 1993.
58. Rational Taxonomy and The Natural System- with Particular Reference to Segmentation. M.W. Ho and P.T. Saunders. *Acta Biotheoretica* **41**: 298-304, 1993.
59. Evolutionary Theory and World Future. M.W. Ho *World Futures* **38**: 97-106, 1993.
60. Interference colour vital imaging – a novel noninvasive technique. M.W. Ho and M. Lawrence. *Micros. Anal.* September, 26, 1993.
61. What is (Schrödinger's) Negentropy? M.W. Ho *Rivista di Biologia* **87**: 149-172, 1994.
62. Reliable Segmentation by Successive Bifurcation. P.T. Saunders and M.W. Ho, *Bull. Math Biol.* **57**, 539-556, 1994.
63. Unravelling Gene Biotechnology. M.W. Ho. *Soundings* **1**, 77-98, 1995.
64. Bioenergetics and the Coherence of Organisms. M.W. Ho. *Neural Network World* **5**, 733-750, 1995.
65. The Biology of Free Will. M.W. Ho. *J. Consciousness Studies* **3**, 231-244, 1996.
66. Colour-contrast in Polarized Light Microscopy of Weakly Birefringent biological specimens. R. H. Newton, J. Haffegge and M.W. Ho. *J. Microscopy* **180**, 127-130, 1995.
67. Molecular Orientations in an Extruded Collagenous Composite, the Marginal Rib of the Egg Capsule of the Dogfish *Scyliorhinus canicula*; a Novel Lyotropic Liquid Crystalline Arrangement and How it is Defined in the Spinneret. D.P. Knight, S.W. Hu, L.J. Gatherole, M. Rusaouen-Innocent, M.W. Ho and R.H. Newton. *Phil. Trans. Roy. Soc.* 351, 1205-1222, 1996.

68. Organisms as Polyphasic Liquid Crystals. M.W. Ho, J. Haffegge, R.H. Newton, S. Ross, Y.M. Zhou and J.P. Bolton. *Bioelectrochemistry and Bioenergetics* **41**, 81-91, 1996.
69. Why Lamarck won't go away. *Annals of Human Genetics* 1996, 60, 81-84.
70. On the nature of sustainable economic systems. M.W. Ho *World Futures* 51, 199-221, 1997.
71. Quantum coherence and conscious experience. M.W. Ho *Kybernetes* **26**, 263-276, 1997.
72. Quantitative image analysis of birefringent biological materials. S. Ross, R. H. Newton, Y.M. Zhou, J. Haffegge, M.W. Ho, J. Bolton, D. Knight. *J. Microscopy* 187, 62-67, 1997.
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48. To science with love, how science and scientists can contribute to the sustainability agenda. Seminar on Education for Sustainable Economic Development, Learning and Skills Development Agency, 2002.

49. Life with the fluid genome. M.W. Ho, In *Recovering Knowledge for Biodiversity* (ed. Michel Pimbert), 2003.
50. From molecular machines to coherent organism. In *Energy and Information Transfer in Biological Systems*, L Brizik, M.W. Ho and F. Musumeci eds., World Scientific, Singapore, 2003.
51. Ho MW. Science, ethics & nature. In *Recoding Nature* (ed. R. Hindmarsh), 2003.
52. Ho MW. Does HIV cause AIDS? In *AIDS In Search of a Social Solution*, TWN and People's Health Movement, Penang, 2004.
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56. Ho MW. GM food nightmare and the regulatory sham. *Policy Making and Risk Management : French and British Viewpoints*, Franco-British Council, 2007 (in press).
57. Ho MW. Thermodynamics of organisms and sustainable systems. Proceedings 2 Convegno, Ambiente – Agricoltura Alimentazione – Salute – Economica a cura di Mario Pianesi, Associazione Nazionale I Internazionale Un Punto Macrobiotico in occasione della Giornata Mondiale Dell'Alimentazione, 17 ottobre 2007, Roma (in Italian)
58. Ho MW. Food without fossil fuels now. Invited keynote lecture, 2nd Mediterranean Conference on Organic Agriculture, Dubrovnik, April 2008.
59. Ho MW. Development and evolution revisited. In *Handbook of Developmental Science, Behavior and Genetics* (K. Hood, C. Halpern, G. Greenberg, & R. Lerner, eds.), Blackwell Publishing, New York, 2009.
60. Ho MW. How development directs evolution, epigenetics and generative dynamics. In Proceedings of Evolution and the Future, Belgrade, 14-18 October 2009 (in press).

Recent invited lectures

1. Ho MW. From 'molecular machines' to coherent organism. *Conference on Energy and Information Transfer in Biological Systems*, 18-22 September 2002, Acireale, Sicily.
2. Ho MW. The quantum coherent organism. *Quantum Mind 2003, Consciousness, Quantum Physics and the Brain*, 15-19 March 2003, Tucson Arizona, USA.
3. Ho MW. The quantum coherent organism. *The Rank Prize Funds Symposium*, 19-22 April 2004, Grasmere, Cumbria.
4. Ho MW, Zhou YM, Haffegge J et al. The liquid crystalline organism and biological water. *Gordon Research Conference on Interfacial Water and Cell Biology*, 6-11 June 2004, Mount Holyoke College, Bradley USA.
5. Ho MW. The quantum coherent organism & EMF sensitivity. Children with Leukaemia Scientific Conference, 6-10 September, Westminster, London, UK.
6. Ho MW. Sustainable systems as organisms. Special lecture, Western Australia University, 7 October 2004, Perth, Western Australia
7. Ho MW. Why Genomics won't deliver the health of nations. Special lecture Curtin University, 6 October 2004, Perth, Western Australia.
8. Ho MW. Life after genetic engineering nightmare 1. Keynote address to *Do GM risks outweigh the benefits* forum, 11 October 2004, Melbourne University, Melbourne, Eastern Australia.

9. Ho MW. Life after genetic engineering nightmare 2. Keynote address to *21st century genetics: widening the debate forum*, 8 October 2004, Murdoch University, Western Australia.
10. Ho MW. The fluid genome and beyond. Address to *The Precautionary Principle in Science and Politics, Federation of German Scientist Conference, 22-23 October 2004, Manus Haus, Berlin, Germany.*
11. Ho MW. Why not genetic modification. Address in Finnish Parliament, 30 November 2004.
12. Ho MW. Non-thermal EMFs and cell water. Science, Medicine and Law, Green Network Charitable Trust & Environmental Law Centre, RIBA, London 31 Jan-2 Feb. 2005.
13. Ho MW. Your genes or your health. Why genomics won't deliver the health of nations. Public lecture Implications of Gene Technology and Equal Opportunities Conference, College of North West London 3 March 2005.
14. Ho MW. GM crops the greatest threat to food security. Address to The Belly Rebellion Conference, Base Camp, Copenhagen, Denmark, 8 March 2005.
15. Ho MW. No Biosecurity without Biosafety: Biodefence Research Endangers the Public, in UK Health and Safety Executive workshop on *Biological Agents* in Chester, UK, March 2005
16. Ho MW. Acupuncture, Coherent Energy and the Liquid Crystalline Organism, Plenary Lecture, *International Medical Congress on Acupuncture*, Barcelona, Spain, June 2005.
17. Ho MW. Making the World Sustainable, Plenary Lecture, *FESTA Conference on Food Security in an Energy-Scarce World*, Dublin, Ireland.
18. Ho MW. Sustainable Food System for Sustainable Development, *ISIS Sustainable World conference*, UK Parliament, London, July 2005
19. Ho MW. GMOs, Human Health and the Environment, Plenary lecture to People's Health Assembly, Cuenca, Ecuador, July 2005.
20. Ho MW. GMOs, Health and the Environment. Plenary lecture, Regional Conference on Genetic Engineering and Sustainable Agriculture, Which Way Forward, Lusaka, Zambia, October 2005
21. Ho MW. Making the World Sustainable and GM-Free. Lecture tour in the Philippines, several plenary lecture, December 2005.
22. Ho MW. Dream Farm II. How to Beat Climate Change and Post Fossil Fuel Economy. Dream Farm Workshop, Kindersley Centre, Sheepdrove Organic Farm, UK, January 2006.
23. Ho MW. How to be food and fuel rich under climate change. Launch of Energy Report, Parliament, Westminster, London, May 2006.
24. Ho MW. Dream Farm 2, story so far. Guangzhou Institute of Geography, Guangzhou, China, August 2006.
25. Ho MW. Quantum Jazz, "the meaning of life, the universe and everything", Goldsmith College, London University, September 2006.
26. Ho MW. Quantum Jazz, "the meaning of life, the universe and everything"², Water Conference, Brattleboro, Vermont, October 2006.
27. Ho MW. Making the world GM-Free and sustainable. Weston A Price Wise Traditions conference keynote lecture, November 2006.
28. Ho MW. GM food nightmare and the regulatory sham. Franco-British Council conference, Policy Making and Risk Management, Paris, France, January 2007.
29. Ho MW. Quantum Jazz, the Tao of biology, Haverford College, PA, April 2007
30. Ho MW. Quantum Jazz, liquid crystalline organisms, Porto, Portugal, April 2007
31. Ho MW. Quantum Jazz, The liquid crystalline organism, London, June 2007
32. Ho MW. No to GMOs No to GM Science, ISIS European Parliament Briefing, June 2007

33. Ho MW. The importance of being a science activist, The Nehru Centre, London, September 2007
34. Ho MW. Thermodynamics of organisms and sustainable systems, Rome, October 2007.
35. Ho MW. Food without fossil fuels now. Invited keynote lecture, 2nd Mediterranean Conference on Organic Agriculture, Dubrovnik, April 2008.
36. Ho MW. Ban GMOs Now. Invited talk at conference on TRADITIONAL SEEDS OUR NATIONAL TREASURE AND HERITAGE -Traditional and Organic Agriculture instead of GMO, 17 May 2008, Bewelder, Warsaw, Poland
37. Ho MW. Food futures now. Launch conference for ISIS report Food Futures Now, Organic, Sustainable, Fossil Fuel Free, UK House of Commons, London, April 2008
38. Ho MW. Food futures now or never. Invited Lecture, Green Alliance, Nottingham, June 2008
39. Ho MW. Quantum coherent liquid crystalline organism. Quantum Medicine Conference, Copenhagen, Denmark, September 2008.
40. Ho MW. GM is dangerous and futile. We need organic sustainable food and energy systems now. Invited Lecture at **Conference on Future of Food: Climate Change, GMOs and Food Security, 1-2 October 2008, India International Centre, New Delhi**
41. Ho MW. Mitigating climate with organic agriculture and localized food and energy systems. Invited lecture at **East and Southeast Asian Conference-Workshop on Sustainable Agriculture, Food Security and Climate Change**, Waterfront-Insular Hotel, Davao City, Philippines, 12-14 October 2008.
42. Ho MW. GM is dangerous and futile. We need organic sustainable food and energy systems now. Invited Lecture at **Forum on Genetically Modified Organisms: "Have GMOs Delivered?"** 16 October 2008. Manila, Philippines.
43. Ho MW. Dream Farm 2, organic, Sustainable, and fossil fuel free. Invited lecture to **Workshop on Ecological Agriculture, Mitigating Climate Change, Providing Food Security and Self-Reliance for Rural Livelihood in Africa**, African Union Headquarters, Addis Ababa, 26-28 November 2008.
44. Ho MW. Science of the organism & sustainable systems, implications for agricultural policies. Briefing for **The Science of Sustainable Agriculture, An Innovative Paradigm** European Agricultural Policy Conference, 3 March 2009, European Parliament, Brussels.
45. Ho MW. Science of the organism & sustainable system, putting it in practice. Briefing for **Closed Loop Agriculture**, 18 April 2009, castle Groeneveld, Baarn, The Netherlands
46. Ho MW. Golden rice & hazards of GMOs Lecture at Workshop on Hazards of GMOs, **Food and Democracy, 5th European Conference on GMO-Free Regions**, 25 April 2009, Cultural and Conference Centre Lucerne (KKL), Switzerland
47. Ho MW. Science in a new key. Invited address to **UK Parliamentary and Scientific Committee**, 19 May 2009, Westminster, London
48. Ho MW. Quantum coherent organism and liquid crystalline water. Invited lecture at **19th Annual Conference of The International Society for the Study of Subtle Energies and Energy medicine, Sacred Synthesis: Science with Heart**, 25-29 June 2009, Westminster, Colorado, USA.
49. Ho MW. **Quantum Medicine, Organisms as Polyphasic Liquid Crystalline Water**, invited lecture to Dept of Mechanical Engineering, University of Belgrade Physical Medicine 15 October 2009, and Serbian Medical Association, 16 October 2009, Belgrade, Serbia
50. Ho MW **Why GMOs Are Bad**, Science of the Organisms and Sustainable Systems, invited lecture at AV3, Grand Thistle Hotel, Bristol 13-15 November 2009

51. Ho MW. [How Development Directs Evolution](#), invited lecture at Conference on Evolution and the Future, Belgrade, 14-18 October 2009.

Conference Papers

1. Epigenetics and Evolution - Theory and Experiment. M.W. Ho, C. Tucker, D. Keeley & P.T. Saunders. In *Evolution and Environment* (V.J.A. Novak & J. Milkovsky, eds.) pp 59-75, Praha, CSAV, 1982.
2. Natural Selection is not Evolution. P.T. Saunders and M.W. Ho. In *Evolution and Environment* (V.J.A. Novak and J. Milkovsky, eds.) pp 495-502, Praha, CSAV, 1982.
3. Dissociation of Lactase/Phlorizin Hydrolase in the Presence of Detergents. H. Bolton, A Furth, M.W. Ho and J. Potter. *Biochem. Soc. Trans* . **11**: 759-60, 1983.
4. Characterization of Lactase and Lactase Precursors in Subcellular Fractions of Human Jejunal Enterocytes by Means of Monoclonal and Polyclonal Antibodies. H. Bolton, J. Potter, M.W. Ho et al, *Biochem. Soc. Trans* . **13**, 97-8, 1985.
5. Preparation of Monoclonal Antibodies to Lactase and Other Brush Border Membrane Proteins by *in vivo* and *in vitro* Immunizations. J. Potter, M.W. Ho et al, *Biochem. Soc. Trans* **13**, 98-9, 1985.
6. Phenocopies. Development and Evolution. M.W. Ho. In *Evolution and Morphogenesis* (Milkovsky, J. and Novak, V.J.A. eds) pp 65-74, Academia Praha, 1985.
7. Visualizing Liquid Crystalline Mesophases in Living Organisms. M.W. Ho, R. Newton, et al IEE Conference on New Microscopies in Biology and Medicine, Proceedings, 1994.
8. An Oscillator Cellular Automaton Model of Superdelayed Luminescence in Synchronously Developing Populations of Early Drosophila Embryos. Y.M. Zhou, M.W. Ho, F.A. Popp and Q. Gu. In *Non-Equilibrium and Coherent systems in Biophysics, Biology and Biotechnology* (L. Belousov and F.A. Popp, eds.), Moscow, 1994.
9. Imaging Liquid Crystalline Mesophases *in vivo* and *in vitro*: measuring molecular birefringence and order parameter of liquid crystals. Y.M. Zhou, R.H. Newton, J.P. Bolton, J. Haffegge, J.Y. Brown, S. Ross and M.W. Ho. *Bios96*.
10. Biophoton Emission in Synchronously Developing Populations of Early Drosophila s. Y.M. Zhou, M.W. Ho, J.P.R. Bolton, M. Milani, M. Costato and F. Musumeci. *Bios96* .

Popular major works

1. Re-animating Nature: The Integration of Science with Human Experience. M.W. Ho. *Beshara Magazine* , Issue 8, 16-25, 1989.
2. One More Attempt. P.T. Saunders, M.W. Ho and R. Karpinskaya. In *Knowledge-Power* 5/89, 33-39, 1989 (in Russian).
3. A Quest for Total Understanding. M.W. Ho. *Saros Seminar on the Dilemma of Knowledge*, Transcript, Bristol Book Club, 1990.
5. Quel Vittoriano di Darwin. M.W. Ho *L'Unita (Scienza e Tecnologia)* Sabato 18 Aprile
6. 1992.
7. La Selezione dell'Amore. M.W. Ho *L'Unita (Scienza e Tecnologia)* Domenica 26 Aprile 1992.

8. **The Physics of Organisms and the Naturalistic Ethic of Organic Wholeness. *Scientific and Medical Network Newsletter* 54, 4-8, 1994.**
9. Genetic engineering: hope or hoax? M.W. Ho. *Third World Resurgence* 53/54, 28-9, 1995
10. In Search of the Sublime. M.W. Ho. *Metanoia* Introductory Issue, pp. 9-16, Spring, 1994.
11. A Great Man Sadly Reduced. M.W. Ho *The Times Higher Education Supplement* July 19, 25, 1996.
12. Perils amid Promises of Genetically Modified Foods. GreenPeace International Report, 1996.
13. The unholy alliance M.W. Ho *The Ecologist* 27, 152-158. 1997.
14. Biotechnology: friend or foe? A dangerous alliance. M.W. Ho *Science & Public Affairs* Winter, 38-40, 1997.
15. GM crops - problems and concerns. M.W. Ho in *Global Genes - Are we going too fast?* Farmers World Report, 1998.
16. Gene technology and gene ecology. M.W. Ho in *Genetic Engineering: Perspectives, Unknowns and Risks*, European Parliament Brussels, 1998.
17. Sowing diseases new and old. Genetic engineering and the world health crisis. M.W. Ho *et al*, *Third World Resurgence* 92, 11-7.
18. Grains of truth. M.W. Ho *Geographical Magazine* October, 68-69, 1999.
19. No scientific basis for patenting under TRIPS Article 27.3(b) M.W. Ho and T. Traavik. *Third World Resurgence* #106, 13-15, 1999.
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