

Kenneth Michael Pollard, PhD

CURRICULUM VITAE

May 2022

Nationality: American. Granted U.S. Citizenship November, 2008.

Address: 4473 Donald Avenue, San Diego, California 92117, U.S.A.

Current Position:

Associate Professor of Molecular Medicine,
Department of Molecular Medicine,
The Scripps Research Institute, IMM208A,
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Faculty Website: <https://www.scripps.edu/faculty/pollard/>

Academic Record:

Bachelor of Science (Second Class Honors, Division A) (1975) Australian National University, Canberra, ACT, Australia

Doctor of Philosophy (1983)

Faculty of Medicine, University of Sydney, Sydney, NSW, Australia

Thesis: *Interaction between DNA and Anti-DNA Antibodies of Systemic Lupus Erythematosus.*

Certificate in Regulatory Affairs Essentials (2009), University of California, San Diego Extension, La Jolla, CA, USA

Professional Record:

2007-Present Associate Professor of Molecular Medicine, Scripps Research Institute, La Jolla, CA

(2001-2009) Director of NCCR Funded MEM Flow Cytometry Core, The Scripps Research Institute, La Jolla, California, USA.

(1997- 2006) Associate Professor, W.M. Keck Autoimmune Disease Center, The Scripps Research Institute, La Jolla, California, U.S.A.

(1992-1996) Assistant Member (Professor), W.M. Keck Autoimmune Disease Center, The Scripps Research Institute, La Jolla, California, U.S.A.

(1987-1991) Senior Research Associate, W.M. Keck Autoimmune Disease Center, The Scripps Research Institute, La Jolla, California, U.S.A.

(1985-1987) Research Officer, Sutton Rheumatism Research Laboratory, Royal North Shore Hospital, St. Leonards, NSW 2065, Australia.

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- (1982-1985) Research Associate, W.M. Keck Autoimmune Disease Center, Scripps Clinic and Research Foundation, La Jolla, California, U.S.A.
Supervision: Eng M. Tan, M.D.
- (1975-1978) Scientific Officer, Sutton Rheumatism Research Laboratory, Royal North Shore Hospital, St. Leonards, NSW 2065, Australia.

Scholarships, Fellowships and Career Development Awards:

- (1971) (Australian) University Teachers' College Scholarship – declined.
- (1972-1974) (Australian) Commonwealth University Scholarship.
- (1982-1983) Eleanor Sophia Wood Traveling Fellow of the University of Sydney, Sydney, Australia.
- (1982-1983) Research Awardee, NSW Lupus Association, Sydney, Australia.
- (1988-1991) Terri Gotthelf Lupus Research Institute Scholar, South Norwalk, CT, U.S.A.
- (1991-1996) First Independent Research Support and Transition (FIRST) Award (R29) National Institute of Allergy and Immunology, NIH, USA

Advisory Committees (including NIH study sections):

- NIH/NIDR Special Emphasis Panel, "Health Effects of Dental Amalgam in Children", 1996. RFA #DE095-004
- NIH/NIEHS Special Emphasis Panel, "Environment/Gene/Infection Interactions in Autoimmune Disease", 1999. RFA #ES-99-003
- NIH Special Emphasis Panel, Pathophysical Sciences Integrated Review Group ZRG1 ALTX-1(04)M, 1999.
- NIH Special Emphasis Panel, ZRG1 SSS-3 01 M, 2001.
- NIH Special Emphasis Panel, ZRG1 RESP (06), 2001.
- NIH Study Section Member, Alcohol and Toxicology 4 (ALTX4), 2000 - 2003.
- NIH/NIEHS Special Emphasis Panel ZES1 JAB-A (S5), 2004 (Superfund).
- NIH Study Section Temporary Member, SBDD, June 2005.
- International Advisory Board, International Workshop on Autoantibodies and Autoimmunity. 2005.
- Member (2005 – 2009) and Chair (2008 – 2009), External Advisory Committee, Center for Environmental Health Sciences, University of Montana, Missoula, Montana.

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Peer Reviewer of National Research Council of the National Academies report on *Assessing the Human Health Risks of Trichloroethylene: Key Scientific Issues*. (The National Academies Press, Washington, DC 2006, 425pp).

NIH SIEE Special Emphasis Panel [DKUS (90)S] Oct 2008, Feb 2009.

NIH ZRG1 IMSTC C30 (Shared Instrumentation Study Section – Flow Cytometers), July, 2009.

NIEHS Committee for RFA ES 09-011: Engineered Nanomaterials, Linking Physical Characteristics to Biological Response - ZES1 SET-V (03), June 2010.

Organizing Committee and Animal Models Subcommittee Chair, NIEHS Expert Panel Workshop to Examine the Role of the Environment in the Development of Autoimmune Disease, Sept 2010.

Panel member for Peer Review of Draft National Toxicology Program Monograph on Health Effects of Low-Level Lead, Nov, 2011.

NIH ZRG1 CBJ 30 (SHARED INSTRUMENTATION: GRANT PROGRAM), August, 2012.

NIH Systemic Injury by Environmental Exposure [SIEE] Special Emphasis Panel [DKUS C (90)S] Oct 2013, Feb 2014, Oct 2014.

NIH Systemic Injury by Environmental Exposure [SIEE] Special Emphasis Panel [DKUS C (90)S] Permanent member July 2015 – July 2019.

FDA. Immunology Devices Panel of the Medical Devices Advisory Committee Meeting. Dental Amalgam. Responses to Metal Implants. November, 2019.

Member (2020 – date), External Advisory Committee, METALS Superfund Center, College of Pharmacy, University of New Mexico, Albuquerque, New Mexico

Research Grant Reviewer (non-NIH) (Ad Hoc):

Medical Research Council, CANADA

The Arthritis Society, CANADA

Veterans Administration (VA), Merit Review, USA

Environmental Health Sciences Center, Oregon State University

Pennsylvania Department of Health Final Performance Review

NHMRC (Australia) MRFF 2020 Silicosis Research Committee

Society Memberships:

American Association of Immunologists, 2001-

American College of Rheumatology, 1984-

Australasian Society for Immunology, 1993-

American Society for Microbiology, 1982-2010

RNA Society, 1994-2010

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Society of Toxicology (Full Member), 2001-
The Henry Kunkel Society, 1997-

Thesis Examiner:

J.C. Neil, Queensland Institute of Technology, Australia (M.Sc.)
P. Reynolds, Flinders University of South Australia, Australia (PhD)
Q.R. Huang, University of Sydney, Australia (PhD)
B. Aplin, University of Melbourne, Australia (PhD)

Graduate student Advisory Committee:

Jessica Ray, Center for Environmental Health Sciences, Department of Biomedical and Pharmaceutical Sciences, University of Montana at Missoula.
Awarded 2022.

Invited Reviewer of Journal Articles:

Arthritis and Rheumatism
Arthritis Research and Therapy
Autoimmune Diseases
Biotechniques
Clinical and Experimental Immunology
Environmental Health Perspectives
Frontiers
Inhalation Toxicology
International Immunopharmacology
Journal of Autoimmunity
Journal of Clinical Immunology
Journal of Clinical Investigation
Journal of Immunology
Journal of Immunotoxicology
Journal of Pharmacology and Experimental Therapeutics
Journal of Rheumatology
Laboratory Investigation
Life Sciences
International Immunopharmacology
Molecular Biology of the Cell
PLoS One
Protein Expression and Purification
Toxicology and Applied Pharmacology
Toxicological Sciences

Editorial Memberships: Journals

Associate Editor, *Inhalation Toxicology*, Taylor and Francis Online
Associate Editor, *International Journal of Molecular Sciences*, *Molecular Immunology Section*, MDPI
Member of Senior Editorial Board of *American Journal of Clinical and Experimental Immunology*, e-Century Publishing
Member of Editorial Advisory Board of *The Open Autoimmunity Journal*, Bentham Science Publishers

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Editorial Memberships: Books

Section Editor: Non-Physiological Metals: Hg, Pb in *Encyclopedia of Metalloproteins*, Edited by Robert H. Kretsinger, Vladimir N. Uversky and Eugene A. Permyakov. Springer New York, 2013.

Publication Metrics:

Google Scholar – Citations 5,333, h-Index 41, i10-index 83.

Peer Reviewed Research Publications

72: Katz DC, Aponte JD, Liu W, Green RM, Mayeux JM, **Pollard** KM, Pomp D, Munger SC, Murray SA, Roseman CC, Percival CJ, Cheverud J, Marcucio RS, Hallgrímsson B. Facial shape and allometry quantitative trait locus intervals in the Diversity Outbred mouse are enriched for known skeletal and facial development genes. *PLoS One*. 2020 Jun 5;15(6):e0233377. PMID: 32502155; PMCID: PMC7274373.

71: LaVergne SM, Sakabe S, Kanneh L, Momoh M, Al-Hassan F, Yilah M, Goba A, Sandi JD, Gbakie M, Cubitt B, Boisen M, Mayeux JM, Smira A, Shore K, Bica I, **Pollard** KM, Carlos de la Torre J, Branco LM, Garry RF, Grant DS, Schieffelin JS, Oldstone MBA, Sullivan BM. Ebola-Specific CD8+ and CD4+ T-Cell Responses in Sierra Leonean Ebola Virus Survivors With or Without Post-Ebola Sequelae. *J Infect Dis*. 2020 Oct 1;222(9):1488-1497. PMID: 32436943; PMCID: PMC7529037.

70: Mayeux JM, Kono DH, **Pollard** KM. Development of experimental silicosis in inbred and outbred mice depends on instillation volume. *Sci Rep*. 2019 Oct 2;9(1):14190. PMID: 31578388; PMCID: PMC6775097.

69: Gonzalez-Quintal R, Mayeux JM, Kono DH, Theofilopoulos AN, **Pollard** KM, Baccala R. Silica exposure and chronic virus infection synergistically promote lupus-like systemic autoimmunity in mice with low genetic predisposition. *Clin Immunol*. 2019 Aug;205:75-82. PMID: 31175964; PMCID: PMC6646094.

68: Mayeux JM, Escalante GM, Christy JM, Pawar RD, Kono DH, **Pollard** KM. Silicosis and Silica-Induced Autoimmunity in the Diversity Outbred Mouse. *Front Immunol*. 2018 Apr 26;9:874. PMID: 29755467; PMCID: PMC5932595.

67: Percival CJ, Green R, Roseman CC, Gatti DM, Morgan JL, Murray SA, Donahue LR, Mayeux JM, **Pollard** KM, Hua K, Pomp D, Marcucio R, Hallgrímsson B. Developmental constraint through negative pleiotropy in the zygomatic arch. *Evodevo*. 2018 Jan 27;9:3. PMID: 29423138; PMCID: PMC5787316.

66: **Pollard** KM, Escalante GM, Huang H, Haraldsson KM, Hultman P, Christy JM, Pawar RD, Mayeux JM, Gonzalez-Quintal R, Baccala R, Beutler B, Theofilopoulos AN, Kono DH. Induction of Systemic Autoimmunity by a Xenobiotic Requires Endosomal TLR Trafficking and Signaling from the Late Endosome and Endolysosome but Not Type I IFN. *J Immunol*. 2017 Dec 1;199(11):3739-3747. PMID: 29055005; PMCID: PMC5698107.

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65: Cauvi DM, Cauvi G, Toomey CB, Jacquinet E, **Pollard** KM. From the Cover: Interplay Between IFN- γ and IL-6 Impacts the Inflammatory Response and Expression of Interferon-Regulated Genes in Environmental-Induced Autoimmunity. *Toxicol Sci.* 2017 Jul 1;158(1):227-239. PMID: 28453771; PMCID: PMC6075572.

64: Maine CJ, Marquardt K, Scatizzi JC, **Pollard** KM, Kono DH, Sherman LA. The effect of the autoimmunity-associated gene, PTPN22, on a BXSB-derived model of lupus. *Clin Immunol.* 2015 Jan;156(1):65-73. PMID: 25463433; PMCID: PMC4291082.

63: Toomey CB, Cauvi DM, Hamel JC, Ramirez AE, **Pollard** KM. Cathepsin B regulates the appearance and severity of mercury-induced inflammation and autoimmunity. *Toxicol Sci.* 2014 Dec;142(2):339-49. PMID: 25237059; PMCID: PMC4250846.

62: Parks CG, Miller FW, **Pollard** KM, Selmi C, Germolec D, Joyce K, Rose NR, Humble MC. Expert panel workshop consensus statement on the role of the environment in the development of autoimmune disease. *Int J Mol Sci.* 2014 Aug 15;15(8):14269-97. PMID: 25196523; PMCID: PMC4159850.

61: Ong J, Erdei E, Rubin RL, Miller C, Ducheneaux C, O'Leary M, Pacheco B, Mahler M, Henderson PN, **Pollard** KM, Lewis JL. Mercury, autoimmunity, and environmental factors on cheyenne river sioux tribal lands. *Autoimmune Dis.* 2014;2014:325461. PMID: 24864198; PMCID: PMC4017878.

60: Cauvi DM, Gabriel R, Kono DH, Hultman P, **Pollard** KM. A tandem repeat in decay accelerating factor 1 is associated with severity of murine mercury-induced autoimmunity. *Autoimmune Dis.* 2014;2014:260613. PMID: 24818014; PMCID: PMC4003777.

59: Koh YT, Scatizzi JC, Gahan JD, Lawson BR, Baccala R, **Pollard** KM, Beutler BA, Theofilopoulos AN, Kono DH. Role of nucleic acid-sensing TLRs in diverse autoantibody specificities and anti-nuclear antibody-producing B cells. *J Immunol.* 2013 May 15;190(10):4982-90. PMID: 23589617; PMCID: PMC3729324.

58: Miller FW, **Pollard** KM, Parks CG, Germolec DR, Leung PS, Selmi C, Humble MC, Rose NR. Criteria for environmentally associated autoimmune diseases. *J Autoimmun.* 2012 Dec;39(4):253-8. PMID: 22771005; PMCID: PMC3468712.

57: Germolec D, Kono DH, Pfau JC, **Pollard** KM. Animal models used to examine the role of the environment in the development of autoimmune disease: findings from an NIEHS Expert Panel Workshop. *J Autoimmun.* 2012 Dec;39(4):285-93. PMID: 22748431; PMCID: PMC3465484.

56: **Pollard** KM, Hultman P, Toomey CB, Cauvi DM, Hoffman HM, Hamel JC, Kono DH. Definition of IFN- γ -related pathways critical for chemically-induced systemic autoimmunity. *J Autoimmun.* 2012 Dec;39(4):323-31. PMID: 22578563; PMCID: PMC3570757.

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55: Scatizzi JC, Haraldsson MK, **Pollard** KM, Theofilopoulos AN, Kono DH. The Lbw2 locus promotes autoimmune hemolytic anemia. *J Immunol.* 2012 Apr 1;188(7):3307-14. PMID: 22371393; PMCID: PMC3311724.

54: Cauvi DM, Toomey CB, **Pollard** KM. Depletion of complement does not impact initiation of xenobiotic-induced autoimmune disease. *Immunology.* 2012 Apr;135(4):333-43. PMID: 22136142; PMCID: PMC3372748.

53: **Pollard** KM, Hultman P, Toomey CB, Cauvi DM, Kono DH. β 2-microglobulin is required for the full expression of xenobiotic-induced systemic autoimmunity. *J Immunotoxicol.* 2011 Jul-Sep;8(3):228-37. PMID: 21793797; PMCID: PMC3257888.

52: Toomey CB, Cauvi DM, Song WC, **Pollard** KM. Decay-accelerating factor 1 (Daf1) deficiency exacerbates xenobiotic-induced autoimmunity. *Immunology.* 2010 Sep;131(1):99-106. PMID: 20408894; PMCID: PMC2966762.

51: Kono DH, Haraldsson MK, Lawson BR, **Pollard** KM, Koh YT, Du X, Arnold CN, Baccala R, Silverman GJ, Beutler BA, Theofilopoulos AN. Endosomal TLR signaling is required for anti-nucleic acid and rheumatoid factor autoantibodies in lupus. *Proc Natl Acad Sci U S A.* 2009 Jul 21;106(29):12061-6. PMID: 19574451; PMCID: PMC2715524.

50: Havarinasab S, **Pollard** KM, Hultman P. Gold- and silver-induced murine autoimmunity--requirement for cytokines and CD28 in murine heavy metal-induced autoimmunity. *Clin Exp Immunol.* 2009 Mar;155(3):567-76. PMID: 19077085; PMCID: PMC2669534.

49: Havarinasab S, Johansson U, **Pollard** KM, Hultman P. Gold causes genetically determined autoimmune and immunostimulatory responses in mice. *Clin Exp Immunol.* 2007 Oct;150(1):179-88. PMID: 17680821; PMCID: PMC2219286.

48: Cauvi DM, Cauvi G, **Pollard** KM. Reduced expression of decay-accelerating factor 1 on CD4+ T cells in murine systemic autoimmune disease. *Arthritis Rheum.* 2007 Jun;56(6):1934-44. PMID: 17530719.

47: Cauvi DM, Cauvi G, **Pollard** KM. Constitutive expression of murine decay- accelerating factor 1 is controlled by the transcription factor Sp1. *J Immunol.* 2006 Sep 15;177(6):3837-47. PMID: 16951346; PMCID: PMC1766464.

46: Hultman P, Taylor A, Yang JM, **Pollard** KM. The effect of xenobiotic exposure on spontaneous autoimmunity in (SWR x SJL)F1 hybrid mice. *J Toxicol Environ Health A.* 2006 Mar;69(6):505-23. PMID: 16574626.

45: Havarinasab S, Häggqvist B, Björn E, **Pollard** KM, Hultman P. Immunosuppressive and autoimmune effects of thimerosal in mice. *Toxicol Appl Pharmacol.* 2005 Apr 15;204(2):109-21. PMID: 15808517.

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44: Schoenroth LJ, Hart DA, **Pollard** KM, Fritzler MJ. The effect of the phytoestrogen coumestrol on the NZB/W F1 murine model of systemic lupus. *J Autoimmun.* 2004 Dec;23(4):323-32. PMID: 15571926.

43: Pollard KM, Arnush M, Hultman P, **Kono** DH. Costimulation requirements of induced murine systemic autoimmune disease. *J Immunol.* 2004 Nov 1;173(9):5880-7. PMID: 15494542.

42: Yang JM, Hildebrandt B, Luderschmidt C, **Pollard** KM. Human scleroderma sera contain autoantibodies to protein components specific to the U3 small nucleolar RNP complex. *Arthritis Rheum.* 2003 Jan;48(1):210-7. PMID: 12528121.

41: Lin CH, Huang HM, Hsieh M, **Pollard** KM, Li C. Arginine methylation of recombinant murine fibrillarin by protein arginine methyltransferase. *J Protein Chem.* 2002 Oct;21(7):447-53. PMID: 12523648.

40: Yang JM, Baserga SJ, Turley SJ, **Pollard** KM. Fibrillarin and other snoRNP proteins are targets of autoantibodies in xenobiotic-induced autoimmunity. *Clin Immunol.* 2001 Oct;101(1):38-50. PMID: 11580225.

39: Kono DH, Park MS, Szydlak A, Haraldsson KM, Kuan JD, Pearson DL, Hultman P, **Pollard** KM. Resistance to xenobiotic-induced autoimmunity maps to chromosome 1. *J Immunol.* 2001 Aug 15;167(4):2396-403. PMID: 11490030.

38: **Pollard** KM, Landberg GP. The in vitro proliferation of murine lymphocytes to mercuric chloride is restricted to mature T cells and is interleukin 1 dependent. *Int Immunopharmacol.* 2001 Mar;1(3):581-93. PMID: 11367541.

37: **Pollard** KM, Pearson DL, Hultman P, Deane TN, Lindh U, Kono DH. Xenobiotic acceleration of idiopathic systemic autoimmunity in lupus-prone bxsB mice. *Environ Health Perspect.* 2001 Jan;109(1):27-33. PMID: 11171521; PMCID: PMC1242047.

36: Lin CH, Hsieh M, Li YC, Li SY, Pearson DL, **Pollard** KM, Li C. Protein N-arginine methylation in subcellular fractions of lymphoblastoid cells. *J Biochem.* 2000 Sep;128(3):493-8. PMID: 10965050.

35: **Pollard** KM, Pearson DL, Blüthner M, Tan EM. Proteolytic cleavage of a self- antigen following xenobiotic-induced cell death produces a fragment with novel immunogenic properties. *J Immunol.* 2000 Aug 15;165(4):2263-70. PMID: 10925315.

34: Overzet K, Gensler TJ, Kim SJ, Geiger ME, van Venrooij WJ, **Pollard** KM, Anderson P, Utz PJ. Small nucleolar RNP scleroderma autoantigens associate with phosphorylated serine/arginine splicing factors during apoptosis. *Arthritis Rheum.* 2000 Jun;43(6):1327-36. PMID: 10857791.

33: **Pollard** KM, Pearson DL, Hultman P, Hildebrandt B, Kono DH. Lupus-prone mice as models to study xenobiotic-induced acceleration of systemic autoimmunity. *Environ Health Perspect.* 1999 Oct;107 Suppl 5(Suppl 5):729-35. PMID: 10502538; PMCID: PMC1566253.

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32: Pearson DL, Reimonenq RD, **Pollard** KM. Expression and purification of recombinant mouse fibrillar. *Protein Expr Purif.* 1999 Oct;17(1):49-56. PMID: 10497068.

31: Kono DH, Balomenos D, Pearson DL, Park MS, Hildebrandt B, Hultman P, **Pollard** KM. The prototypic Th2 autoimmunity induced by mercury is dependent on IFN-gamma and not Th1/Th2 imbalance. *J Immunol.* 1998 Jul 1;161(1):234-40. PMID: 9647229.

30: **Pollard** KM, Lee DK, Casiano CA, Bluthner M, Johnston MM, Tan EM. The autoimmunity-inducing xenobiotic mercury interacts with the autoantigen fibrillar and modifies its molecular and antigenic properties. *J Immunol.* 1997 Apr 1;158(7):3521-8. PMID: 9120314.

29: Arnett FC, Reveille JD, Goldstein R, **Pollard** KM, Leaird K, Smith EA, Leroy EC, Fritzler MJ. Autoantibodies to fibrillar in systemic sclerosis (scleroderma). An immunogenetic, serologic, and clinical analysis. *Arthritis Rheum.* 1996 Jul;39(7):1151-60. PMID: 8670324.

28: Hultman P, Turley SJ, Eneström S, Lindh U, **Pollard** KM. Murine genotype influences the specificity, magnitude and persistence of murine mercury-induced autoimmunity. *J Autoimmun.* 1996 Apr;9(2):139-49. PMID: 8738957.

27: Hultman P, Ganowiak K, Turley SJ, Pollard KM. Genetic susceptibility to silver-induced anti-fibrillar autoantibodies in mice. *Clin Immunol Immunopathol.* 1995 Dec;77(3):291-7. PMID: 7586739.

26: Takeuchi K, Turley SJ, Tan EM, **Pollard** KM. Analysis of the autoantibody response to fibrillar in human disease and murine models of autoimmunity. *J Immunol.* 1995 Jan 15;154(2):961-71. PMID: 7529293.

25: Hultman P, Johansson U, Turley SJ, Lindh U, Eneström S, **Pollard** KM. Adverse immunological effects and autoimmunity induced by dental amalgam and alloy in mice. *FASEB J.* 1994 Nov;8(14):1183-90. PMID: 7958626.

24: Hultman P, Eneström S, Turley SJ, **Pollard** KM. Selective induction of anti-fibrillar autoantibodies by silver nitrate in mice. *Clin Exp Immunol.* 1994 May;96(2):285-91. PMID: 8187336; PMCID: PMC1534880.

23: Turley SJ, Tan EM, **Pollard** KM. Molecular cloning and sequence analysis of U3 snoRNA-associated mouse fibrillar. *Biochim Biophys Acta.* 1993 Oct 19;1216(1):119-22. PMID: 8218401.

22: Hultman P, Bell LJ, Eneström S, **Pollard** KM. Murine susceptibility to mercury. II. autoantibody profiles and renal immune deposits in hybrid, backcross, and H-2d congenic mice. *Clin Immunol Immunopathol.* 1993 Jul;68(1):9-20. PMID: 8513597.

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21: Hultman P, Bell LJ, Eneström S, **Pollard** KM. Murine susceptibility to mercury. I. Autoantibody profiles and systemic immune deposits in inbred, congenic, and intra-H-2 recombinant strains. *Clin Immunol Immunopathol.* 1992 Nov;65(2):98-109. PMID: 1395135.

20: Cohen MG, **Pollard** KM, Webb J. Antibodies to histones in systemic lupus erythematosus: prevalence, specificity, and relationship to clinical and laboratory features. *Ann Rheum Dis.* 1992 Jan;51(1):61-6. PMCID: PMC1004620.

19: Ben-Chetrit E, **Pollard** KM. Purified recombinant 60 kD SS-A/Ro protein—an antigenic source for ELISA screening of patients with rheumatic diseases. *J Clin Lab Immunol.* 1990 Aug;32(4):195-200. PMID: 1966938.

18: Pollard KM, Chan EK, Grant BJ, Sullivan KF, Tan EM, Glass CA. In vitro posttranslational modification of lamin B cloned from a human T-cell line. *Mol Cell Biol.* 1990 May;10(5):2164-75. PMID: 2325650; PMCID: PMC360564.

17: Rubin RL, Tang FL, Tsay G, **Pollard** KM. Pseudoautoimmunity in normal mice: anti-histone antibodies elicited by immunization versus induction during graft-versus-host reaction. *Clin Immunol Immunopathol.* 1990 Feb;54(2):320-32. PMID: 2295157.

16: Wang Y, Schrieber L, Cohen MG, Furphy L, Webb J, Chivers T, **Pollard** KM. Antiphospholipid antibodies in systemic lupus erythematosus: clinical and laboratory associations in 111 patients. *Rheumatol Int.* 1990;10(2):75-80. PMID: 2349437.

15: **Pollard** KM, Cohen MG. Predicting antigenic determinants of autoantigens. *Autoimmunity.* 1990;5(4):265-75. PMID: 1717005.

14: Hultman P, Eneström S, **Pollard** KM, Tan EM. Anti-fibrillar autoantibodies in mercury-treated mice. *Clin Exp Immunol.* 1989 Dec;78(3):470-7. PMID: 2612058; PMCID: PMC1534831.

13: Cohen MG, **Pollard** KM, Schrieber L. Relationship of age and sex to autoantibody expression in MRL-+/+ and MRL-lpr/lpr mice: demonstration of an association between the expression of antibodies to histones, denatured DNA and Sm in MRL-+/+ mice. *Clin Exp Immunol.* 1988 Apr;72(1):50-4. PMID: 3260838; PMCID: PMC1541516.

12: **Pollard** KM, Furphy LJ, Webb J. Anti-Sm and anti-DNA antibodies in paired serum and synovial fluid samples from patients with SLE. *Rheumatol Int.* 1988;8(5):197-204. PMID: 3148995.

11: **Pollard** KM, Chan EK, Rubin RL, Tan EM. Monoclonal autoantibodies to nuclear antigens from murine graft-versus-host disease. *Clin Immunol Immunopathol.* 1987 Jul;44(1):31-40. PMID: 3496180.

10: Reimer G, **Pollard** KM, Penning CA, Ochs RL, Lischwe MA, Busch H, Tan EM. Monoclonal autoantibody from a (New Zealand black x New Zealand white)F1 mouse and some human

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scleroderma sera target an Mr 34,000 nucleolar protein of the U3 RNP particle. *Arthritis Rheum.* 1987 Jul;30(7):793-800. PMID: 2441711.

9: Tsay GJ, Chan EK, Peebles CL, **Pollard** KM, Tan EM. An immunoassay differentiating sera with antibodies to Sm alone, antibodies to Sm/RNP complex, and antibodies to RNP alone. *Arthritis Rheum.* 1987 Apr;30(4):389-96. PMID: 3555511.

8: **Pollard** KM, Webb J. Structural requirements of DNA used in the Farr assay to detect antibodies directed against double-stranded DNA. *Rheumatol Int.* 1987;7(4):161-8. PMID: 3313663.

7: Rubin RL, Tang FL, Chan EK, **Pollard** KM, Tsay G, Tan EM. IgG subclasses of autoantibodies in systemic lupus erythematosus, Sjogren's syndrome, and drug-induced autoimmunity. *J Immunol.* 1986 Oct 15;137(8):2528-34. PMID: 3760566.

6: **Pollard** KM, Jones JE, Tan EM, Theofilopoulos AN, Dixon FJ, Rubin RL. Polynucleotide specificities of murine monoclonal anti-DNA antibodies. *Clin Immunol Immunopathol.* 1986 Aug;40(2):197-208. PMID: 3487402.

5: **Pollard** KM, Steele R, Hogg S, Webb J. Measurement of serum DNA binding in chronic active hepatitis and systemic lupus erythematosus using the Farr assay. *Rheumatol Int.* 1986;6(3):139-44. PMID: 3529336.

4: Webb J, **Pollard** KM. Induction of DNA-antibodies by d-penicillamine. *Clin Exp Rheumatol.* 1985 Jul-Sep;3(3):213-9. PMID: 3876900.

3: **Pollard** KM, Tan EM. Purification of the Sm nuclear autoantigen. Detection and clinical significance of IgM antibody. *Clin Exp Immunol.* 1985 Jun;60(3):586-96. PMID: 4017287; PMCID: PMC1577198.

2: **Pollard** KM, Webb J. Partial purification of anti-DNA antibodies from systemic lupus erythematosus serum by dye-ligand chromatography. *J Immunol Methods.* 1982 Oct 15;54(1):81-94. doi: 10.1016/0022-1759(82)90116-8. PMID: 6982949.

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Invited Reviews, Chapters, Editorials

43: Hultman PA, **Pollard** KM. Immunotoxicology of Metals. In *Handbook on the Toxicology of Metals, 5th Ed.*, Edited by Gunnar Nordberg and Max Costa. Elsevier Ltd, 2022. *In press.*

42: **Pollard** KM, Cauvi DM, Mayeux JM, Toomey CB, Peiss AK, Hultman P, Kono DH. Mechanisms of Environment-Induced Autoimmunity. *Annu Rev Pharmacol Toxicol.* 2021 Jan 6;61:135-157. PMID: 32857688; PMCID: PMC8166384.

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- 37: Cauvi DM, Hultman P, **Pollard** KM. Autoimmune Models. In *Comprehensive Toxicology, 3rd Ed.* Edited by Charlene A. McQueen Oxford: Elsevier Ltd. 2018. Volume 11, pp498–523.
- 36: Christy JM, Toomey CB, Cauvi DM, **Pollard** KM. Decay-Accelerating Factor. In *The Complement FactsBook 2nd Ed.*, Edited by Scott R. Barnum and Theresa N. Schein. Elsevier Ltd, 2018. pp261-270.
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- 33: **Pollard** KM. Silica, Silicosis, and Autoimmunity. *Front Immunol.* 2016 Mar 11;7:97. PMID: 27014276; PMCID: PMC4786551.
- 32: Hultman P, **Pollard** KM. Immunotoxicology of Metals. In *Handbook on the Toxicology of Metals, 4th Ed.*, Edited by Nordberg, G.F., Fowler, B.A., Nordberg, M. Elsevier Ltd, London, 2015. pp379-398.
- 31: **Pollard** KM. Environment, autoantibodies, and autoimmunity. *Front Immunol.* 2015 Feb 11;6:60. PMID: 25717329; PMCID: PMC4324151.
- 30: Vojdani A, **Pollard** KM, Campbell AW. Editorial: Environmental triggers and autoimmunity. *Autoimmune Dis.* 2014;2014:798029. PMID: 25610638; PMCID: PMC4290643.
- 29: Toomey CB, Cauvi DM, **Pollard** KM. The role of decay accelerating factor in environmentally induced and idiopathic systemic autoimmune disease. *Autoimmune Dis.* 2014;2014:452853. PMID: 24592327; PMCID: PMC3921935.
- 28: **Pollard** KM, Cauvi DM, Toomey CB, Morris KV, Kono DH. Interferon- γ and systemic autoimmunity. *Discov Med.* 2013 Sep;16(87):123-31. PMID: 23998448; PMCID: PMC3934799.

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- 27: **Pollard** KM. Mercury and Immune Function. In *Encyclopedia of Metalloproteins*, Edited by Robert H. Kretsinger, Vladimir N. Uversky and Eugene A. Permyakov. Springer New York, 2013. pp1332-1336
- 26: **Pollard** KM, Kono DH. Requirements for innate immune pathways in environmentally induced autoimmunity. *BMC Med.* 2013 Apr 4;11:100. PMID: 23557436; PMCID: PMC3616845.
- 25: **Pollard** KM. Gender differences in autoimmunity associated with exposure to environmental factors. *J Autoimmun.* 2012 May;38(2-3):J177-86. Epub 2011 Dec 3. PMID: 22137891; PMCID: PMC3302961.
- 24: **Pollard** KM, Hultman P, Kono DH. Toxicology of autoimmune diseases. *Chem Res Toxicol.* 2010 Mar 15;23(3):455-66. PMID: 20078109; PMCID: PMC3076021.
- 23: Cauvi DM, Hultman P, Pollard KM. Autoimmune Models. In *Comprehensive Toxicology*, Edited by Charlene A. McQueen Oxford: Academic Press. 2010. Volume 5, pp413–438
- 22: **Pollard** KM. Autoantibodies and Autoimmunity. In *Immunology: From Cell Biology to Disease*. Edited by R.A. Meyers. Wiley-VCH, Weinheim, Germany. 2007. pp345-365.
- 21: **Pollard** KM, Hultman P. Fibrillarin Autoantibodies. In *Autoantibodies, Second Edition*. Edited by Y. Shoenfeld, M.E Gershwin and P-L. Meroni. Elsevier BV. 2007. pp317-323.
- 20: **Pollard** KM. Perspectives. In *Autoantibodies and Autoimmunity: Molecular Mechanisms in Health and Disease*. Pollard, K.M. (Ed.) Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, 2006. pp591-598.
- 19: **Pollard** KM. Introduction. In *Autoantibodies and Autoimmunity: Molecular Mechanisms in Health and Disease*. Pollard, K. M. (Ed.) Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, 2006. pp3-26.
- 18: **Pollard** KM. Systemic Autoimmunity. In *Encyclopedic Reference of Immunotoxicology*. Edited by Hans-Werner Vohr. Springer-Verlag, Heidelberg, Germany. 2005. pp621-624
- 17: Lynes MA, Fontenot AP, Lawrence DA, Rosenspire AJ, **Pollard** KM. Gene expression influences on metal immunomodulation. *Toxicol Appl Pharmacol.* 2006 Jan 1;210(1-2):9-16. PMID: 15993910.
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- 15: **Pollard** KM. Autoantibodies and Autoimmunity. In *Encyclopedia of Molecular Cell Biology and Molecular Medicine*. Edited by R.A. Meyers. Wiley-VCH, Weinheim, Germany. 2004. pp459-479.
- 14: **Pollard** KM, Hultman P, Arnush M, Hildebrandt B, Kono DH, Immunology and genetics of xenobiotic-induced autoimmunity. In *From Animal Models to Human Genetics: Research on the Induction and Pathogenicity of Autoantibodies*. Conrad, K., Bachmann, M.P., Chan, E.K.L., Fritzer, M. J., Humbel, R. L., Sack, U., Shoenfeld, Y. Pabst, Lengerich. 2004. p130-144.

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- 13: Mahler M, Blüthner M, **Pollard** KM. Advances in B-cell epitope analysis of autoantigens in connective tissue diseases. *Clin Immunol.* 2003 May;107(2):65-79. PMID: 12763475.
- 12: **Pollard** KM, Hultman P, Kono DH. Using single-gene deletions to identify checkpoints in the progression of systemic autoimmunity. *Ann N Y Acad Sci.* 2003 Apr;987:236-9. PMID: 12727644.
- 11: **Pollard** KM. Editorial: Cell death, autoantigen cleavage, and autoimmunity. *Arthritis Rheum.* 2002 Jul;46(7):1699-702. PMID: 12124851.
- 10: **Pollard** KM, Tan EM. Immunology – Autoimmunity. In *Encyclopedia of Physical Sciences and Technology, Third Edition, Volume 7.* Edited by R.A. Meyers. Academic Press, San Diego, CA. 2002. pp679-691.
- 9: Rubin RL, **Pollard** KM. Chemical-Induced Autoimmunity. In *Handbook of Experimental Immunology.* 5th edition. Edited by L.A. Hertzzenberg, D.M. Weir, L.A. Hertzzenberg and C. Blackwell. Blackwell Scientific Publications, London. 1997. pp 135.1-11.
- 8: Chan EKL, **Pollard** KM. Autoantibodies to ribonucleoprotein particles by immunoblotting. In *Manual of Clinical Laboratory Immunology.* 5th edition. Edited by N.R. Rose, E.C. de Macario, J.D. Folds, H.C. Lane and R.M. Nakamura. American Society for Microbiology, Washington, D.C. 1997. pp 928-934.
- 7: **Pollard** KM, Hultman P. Effects of mercury on the immune system. In *Metal ions in Biological Systems.* Vol 34. *Mercury and Its Effects on Environment and Biology.* Edited by H. Sigel and A. Sigel. Marcel Dekker, Inc., Basel, Switzerland. 1997. pp 421-440.
- 6: Hultman P, **Pollard** KM. Fibrillarin Antibodies. In *Autoantibodies.* Edited by J.B. Peter and Y. Shoenfeld. Elsevier Science B.V., The Netherlands. 1996. pp 253-259.
- 5: **Pollard** KM, Chan EKL, Rubin RL, Tan EM. Autoimmunity and Autoantibodies. In *Encyclopedia of Molecular Biology and Molecular Medicine.* Meyers, R.A. editor. VCH Publishers, New York, 1996. pp 84-93.
- 4: **Pollard** KM, Chan EKL, Tan, EM. Autoimmunity and Autoantibodies. In *Molecular Biology and Biotechnology: A Comprehensive Desk Reference.* Meyers, R.A. editor. VCH Publishers, New York, 1995. pp 47-50.
- 3: **Pollard** KM, Reimer G. Humoral, Genetic and Environmental Aspects of Scleroderma. *Akuelle Rheumatologie.* 1996 21:167-170.
- 2: Tan EM, Muro Y, **Pollard** KM. Autoantibody-defined epitopes on nuclear antigens are conserved, conformation-dependent and active site regions. *Clin Exp Rheumatol.* Nov-Dec 1994;12 Suppl 11:S27-31. PMID: 7539349
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Letters/Notes

- 5: Pollard KM, Kono DH. Requirements for "Fire and ICE" differ between animal models of autoimmunity: comment on the article by Kahlenberg et al. *Arthritis Rheumatol.* 2014 Aug;66(8):2310-1. PMID: 24757010.
- 4: Pollard KM, Hultman P. Skin-lightening creams are a possible exposure risk for systemic lupus erythematosus: comment on the article by Finckh et al. *Arthritis Rheum.* 2007 May;56(5):1721; author reply 1721-2. PMID: 17469167.
- 3: Glass CA, Pollard KM. Post-translational isoprenylation of human lamin B in the reticulocyte *in vitro* system. *Promega Notes.* 1990. Number 26 (August).
- 2: Pollard KM, Toumasatos V, Furphy L, Webb J. Immunohistologically definable light chain restriction in autoimmune disease. *J Pathol.* 1988 Dec;156(4):349-52. PMID: 3147325
- 1: Pollard KM. Re.: Selective binding of heat- and antigen-aggregated IgG to Blue Sepharose. Radioimmunoassay of circulating immune complexes. *J Immunol Methods.* 1985 Feb 11;76(2):395-6. PMID: 3973396.

Books

1. Autoantibodies and Autoimmunity: Molecular Mechanisms in Health and Disease. **Pollard, K.M.** (Ed.) Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, 2006. 640 pages.

Named Lectures:

The Third Annual Giuseppe Molinaro Lecture, Integrated Biomedical Sciences Seminar Series, Loma Linda University, Loma Linda, California, USA. February 26, 2015. (Environmental Exposure and Systemic Autoimmunity.)

Conference Participation (selected):

Keynote Address, Australian Rheumatism Association (1985) Annual Meeting, Thredbo, NSW, Australia

Invited Participant and Speaker, First International Workshop (1989), Molecular and Cell Biology of Autoantibodies and Autoimmunity, Heidelberg, Germany

Keynote Speaker, International Symposium on Molecular Mechanisms of Autoantibody Production (1991), Tokyo, Japan

Local Organizing Committee, Second International Workshop (1991), Molecular and Cell Biology of Autoantibodies and Autoimmunity, San Diego, CA, USA

Minisymposium Chairman and Speaker, Autoantibodies: Probes in Cell and Molecular Biology, 4th European Congress of Cell Biology (1994), Prague, Czech Republic

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Invited Participant and Speaker, Workshop on “Methods for Detection of Health Effects from Low Level Exposure to Methyl Mercury (MeHg) and Inorganic Mercury (Hg)”. (1994), National Institutes of Health, Bethesda, MD.

Speaker, session on “Autoantibodies”, The 2nd Asian Pacific Congress of Allergy and Clinical Immunology (1995), Taipei, Taiwan

Moderator and Speaker, Chang Shan Symposium of Autoimmunity and Cell Biology, Chung Shan Medical & Dental College 35th Anniversary (1995), Taichung, Taiwan

Invited Participant and Speaker, “The Effects of Mercury and Silver on the Immune System”, International Academy of Oral Medicine and Toxicology (1996), Reno, NV, USA

Session Chairman and Speaker, Autoantigens, Autoantibodies and Their Role in the Pathogenesis of Autoimmune Disease, Part II. 3rd Dresden Symposium on Autoantibodies (1996), Dresden, Germany

Invited Participant and Speaker, 2nd International Scleroderma Symposium (1996), Munich, Germany

Invited Participant and Speaker, 5th International Workshop on the “Molecular and Cell Biology of Autoantibodies and Autoimmunity” (1997), Chapel Hill, NC, USA

Invited Participant and Speaker, Workshop on “Linking Environmental Agents and Autoimmune Diseases” (1998), National Institutes of Environmental Health Sciences, Research Triangle Park, NC, USA

Invited Speaker, Symposium on “Effects of the Environment on Immune Function” (1999), 14th Annual Conference on Clinical Immunology, and the 5th International Symposium on Clinical Immunology, Washington, DC, USA

Invited Participant and Speaker, 7th Bertine Koperberg Conference on “Apoptosis and Autoimmunity” (1999), Nijmegen, The Netherlands.

Chairman and Invited Speaker, Workshop on “The Role of Autoantibodies in Systemic Autoimmune Diseases” (2000). 29th Congress of the German Society for Rheumatology, Aachen, Germany.

Keynote Speaker, International Symposium on Systemic Sclerosis (Scleroderma) (2000), Kasteel Vaalsbroek, The Netherlands.

Speaker, Autoimmunity Symposium, Australasian Society for Immunology (2000), Sydney Australia.

Workshop Co-Chairman and Speaker, “Systemic and Organ-Specific Autoimmunity”, Australasian Society for Immunology (2001), Canberra, Australia.

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Workshop Presentation, “Immune Mechanisms and Disease” New York Academy of Sciences and The Kunkel Society, (2002), St George’s, Grenada.

Invited Participant, 2nd Global Arthritis Research Network (GARN) Meeting, (2002), Durham, North Carolina.

Workshop Presentation, “Autoimmunity”, Australasian Society for Immunology (2002), Brisbane, Australia.

Speaker, Plenary Session, Workshop on Environmental Factors in Autoimmune Disease, National Institutes of Environmental Health Sciences, (2003), Durham, North Carolina.

Workshop Presentation, “NK Cells”, Australasian Society for Immunology (2003), Perth, Australia.

International Advisory Committee, Speaker, and Session Chairman, “From Animal Models to Human Genetics”. 7th Dresden Symposium on Autoantibodies, (2004), Dresden, Germany.

Invited Speaker, Workshop on Autoimmunity and Cell Biology, Organized by the 1st Faculty of Medicine, Charles University in Prague and the Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, (2004) Prague, Czech Republic.

Invited Speaker, Scleroderma Study Group on Immune Dysregulation and Therapeutics in Scleroderma, American College of Rheumatology, (2005) San Diego, California.

Invited Speaker, 4th GTCBio Conference on Cytokines and Inflammation. (2006) San Diego, California.

Symposia Presentation, “Autoimmunity II”, Australasian Society for Immunology (2006), Auckland, New Zealand.

Theron Randolph Memorial Lecture “The Immunology and Genetics of Environmentally-Induced Autoimmunity”, American Academy of Environmental Medicine (2009), Phoenix, Arizona.

Organizing Committee and Animal Models Panel Chair, NIEHS Expert Panel Workshop to Examine the Role of the Environment in the Development of Autoimmune Disease, (2010), Durham, North Carolina.

Invited Speaker, “Immunology and Genetics of Environmentally-Induced Systemic Autoimmunity”, Taiwan Rheumatology Association Spring Meeting (2012), Kending National Park, Taiwan.

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Symposia Presentation, "Requirements for Innate Immune Pathways in Environmentally-Induced Autoimmunity", 8th International Congress on Autoimmunity (2012) Granada, Spain.

Symposia Presentation, "Cathepsin B Mediated Severity of Autoimmunity Requires Markers of Innate Immunity", 9th International Congress on Autoimmunity (2014), Nice, France.

Symposia Presentations, "Mercury, Fibrillar and Scleroderma" and "Environment and Autoimmunity", 12th International Workshop on Autoantibodies and Autoimmunity (IWAA) (2014), São Paulo, Brazil.

Invited Participant/Speaker, AARDA Colloquium on "Common Innate Pathways to Autoimmune Disease". (2019), Washington, DC.

Invited Speaker/Co-Chair, Symposium on Immune Mechanisms in Pathologic Responses to Particles, Nanomaterials, and Nanomedicines. American Society for Pharmacology and Experimental Therapeutics (ASPET), Experimental Biology (2021), Virtual.

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