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Professional Profile

Dr. DeSesso has over 45 years of post-doctoral experience specializing in the areas of developmental and reproductive toxicology, general toxicology, risk assessment, and human health effects of environmental agents and pharmaceuticals. His research has included normal and abnormal development, with emphasis on the mechanisms by which chemical and physical agents influence developing organisms.

Dr. DeSesso has an ongoing interest in determining the mechanism, location and timing of the transplacental transfer of various substances (including small molecules and biologics) in various species. He has worked on projects including the assessment for potential gestational exposures to various substances to cause developmental or neurobehavioral effects, determination of the possible teratogenicity of atrazine and glyphosate, and demonstration of the mode of teratogenic action for an artificial blood substitute that is absent in humans.

He was an adjunct professor of Biochemistry and Cellular & Molecular Biology at Georgetown University School of Medicine where he has taught embryology and anatomy for 39 years. He has received 6 Teacher of the Year Awards (1 from the Medical College of Virginia School of Pharmacy; 5 from Georgetown University School of Medicine) and is the 2014 recipient of the Narsingh Agnish Fellowship from the Teratology Society, which recognizes contributions to education. He has been invited frequently to serve as the chairman of scientific sessions at national and international scientific meetings, especially those involving mechanisms or amelioration of developmental toxicity and human health risk assessment. He has published more than 120 papers and chapters and has presented at over 200 conferences and symposia. Two of his papers (in 2000 and 2009) were recognized by the Risk Assessment Specialty Section of the Society of Toxicology as Outstanding Published Papers Demonstrating an Application of Risk Assessment. He was honored with the Josef Warkany Lecture and Award from the Teratology Society (2018) and Scientific Achievement Award from the Society of Toxicology, Reproductive & Developmental Toxicity Specialty Section (2025).

Dr. DeSesso's broad background in health science has been recognized in diverse scientific positions. Prior to joining Exponent, he held various positions at Noblis/Mitretek Systems, where he directed commercially and governmentally funded public interest research efforts on the potential adverse effects of environmental agents. Projects included assessing the potential for inorganic arsenic contamination to cause human birth defects, investigating the possible reproductive toxicity of a commonly used ingredient of consumer products, and assessing the possible teratogenicity of a novel ingredient used in veterinary medicine. He provided key expertise in human health risk assessment, including negotiation of risk assessment protocols on a site-specific basis. He wrote the Air Force approach to ecological risk and is a co-author of multiple in-depth hazard evaluations of the widely encountered environmental contaminant trichloroethylene that addressed its potential human carcinogenicity and its potential to cause adverse effects in developing babies. The published findings of these studies contribute to its ongoing regulatory re-evaluation.

During 15 years at The MITRE Corporation, he wrote health hazard assessments for the EPA Office of Toxic Substances in support of its Pre-Manufacturing Notification Program. For EPA's Office of Pesticide Programs, Dr. DeSesso analyzed toxicity data submitted for registration of pesticides. For the EPA Office of Health and Environmental Assessment, he wrote assessment documents concerning the carcinogenicity, toxicology, and reproductive effects of existing chemical substances. For the FDA, Dr. DeSesso led a team that assessed the relevance to human health of direct bladder exposure studies conducted in rodents. He was named to the EPA/ILSI National Work Group on Rodent Bladder Cancer, where he helped to establish rational and scientific approaches for applying rodent bladder cancer study results to human health risk assessment. He also served on a team that studied the health effects of refined menhaden oil during FDA's consideration of its generally recognized as safe (GRAS) status.

Dr. DeSesso is active in 8 scientific societies and was elected President of the Teratology Society (1994-1995), the Mid Atlantic Reproduction and Teratology Association (MARTA; 2001-2002), and the Risk Assessment Specialty Section of the Society of Toxicology (2015). He served as an Executive Board member of the Federation of American Societies of Experimental Biology (FASEB; 1999-2004; 2006-2009). He is a member of the editorial review board of Reproductive Toxicology and the editorial advisory board of Birth Defects Research. He is a frequent contributor to continuing education courses that deal with toxicology and risk assessment. He has provided public commentary regarding scientific issues before federal agencies, state legislatures, and congressional committees.

Academic Credentials & Professional Honors

Ph.D., Anatomy and Teratology, Virginia Commonwealth University, 1975

B.A., Chemistry, Hamilton College, 1968

Fellow, Academy of Toxicological Sciences, 1999 (Recertified 2004, 2009, 2014, 2019, 2024)

Scientific Achievement Award, 2025

- Awarded by Society of Toxicology, Reproductive & Developmental Toxicity Specialty Section for globally recognized expertise in developmental and reproductive toxicology, active leadership and service to the field and strong track record as a mentor

Josef Warkany Award and Lectureship, 2018

- Awarded for career impact in the field of teratology by the Teratology Society

Edward W. Carney Distinguished Service Award, 2017

- Awarded for his exemplary dedication and service to the Teratology Society and the scientific discipline of teratology.

Narsingh Agnish Fellowship, 2014

- Awarded by the Teratology Society for significant contributions to improving basic science and applied research, service to the Society and commitment to teaching subsequent generations of scientists

Distinguished Service Award (2)

- Federation of American Societies of Experimental Biology (FASEB) for contributions to board of Directors- Board of Directors Member, 2006-2009

- Board of Directors Member, 1999-2004

Distinguished Service Award, 2008

- Toxicology Excellence for Risk Assessment (TERA)

- Core Member of the Voluntary Children's Chemical Evaluation Program (VCCEP)

Certificates of Appreciation (2)

- Awarded by Food and Drug Administration, Center for Drug Evaluation and Research Staff College

- Committee for Advance Scientific Education, 1997

- Office of Training and Communications, 1998

Academic Appointments

University of Cincinnati College of Medicine

- Assistant Professor, Dept. of Anatomy and Cell Biology, 1975-1981
- Adjunct Associate Professor, Dept. of Anatomy and Cell Biology, 1982-1985
- Adjunct Assistant Professor, Dept. of Pediatrics, Children's Hospital Research Foundation, 1990-1996

Georgetown University Schools of Medicine and Dentistry

- Adjunct Professor, Department of Biochemistry and Molecular & Cellular Biology, 2006-2022
- Adjunct Associate Professor, Department of Cell Biology and Anatomy, 1983-2006

The Chicago Medical School, Rosalind Franklin University of Medicine and Science

- Visiting Professor, Department of Cell Biology and Anatomy, 1993-2010

San Diego State University/Graduate School of Public Health

- Adjunct Professor, Department of Toxicology, 1994-2010

Center for Drug Evaluation and Research (CDER) Staff College, FDA

- Faculty Member, 1996-1998

George Mason University

- Affiliate Professor, Department of Biology, 2002-2003
- Adjunct Professor, Advanced Biomedical Sciences, 2011 - 2012

University of North Texas Health Sciences Center

- Adjunct Professor, School of Public Health, Department of Environmental and Occupational Health, 2005-2008

Teaching Awards

Golden Apple Award (Teacher of the Year), Georgetown University School of Medicine (5)

- Awarded for efforts in Embryology and Gross Anatomy in 2005, 2006 (2), 2008, 2016

Geza M. Illes Award for Outstanding Teaching in Gross Anatomy at Georgetown University - 2015

Bernards Township Education Association: Friend of Education Award" - 1997-1998

Medical College of Virginia School of Pharmacy - Teacher of the Year - 1974

Prior Experience

Noblis (formerly Mitretek Systems), Center for Science and Technology, 1996-2009

- Senior Fellow, 1998 (November)
- Director, Biomedical Research Institute, 1998 (January)
- Senior Principal Scientist (Health Science/Toxicology/Risk Assessment), 1996

The MITRE Corporation, Center for Environment, Resources and Space, 1981-1996

- Senior Principal Scientist (Health Science/Toxicology/Risk Assessment), 1995
- Principal Scientist (Toxicology/Risk Assessment), 1991
- Lead Scientist (Toxicology), 1986
- Group Leader (Acting), 1982
- Technical Staff, 1981

University of Cincinnati College of Medicine, Department of Anatomy and Cell Biology, 1975-1981

- Assistant Professor

United States Marine Corps

- Sergeant E-5, 1968-1971

Professional Affiliations

Elected Leadership Positions

President, Risk Assessment Specialty Section, Society of Toxicology 2013-2014

President, Middle Atlantic Reproductive and Teratology Association 2001-2002

President, Teratology Society 1994-1995

Memberships

Academy of Toxicological Sciences

American Association of Anatomists

American College of Toxicology

American Society for Reproductive Medicine (formerly American Fertility Society)

Federation of American Societies of Experimental Biology

Society for Birth Defects Research and Prevention (formerly Teratology Society)

Society of Toxicologic Pathology

Society of Toxicology

Publications

Roberts, L. G., A. M. Hoberman, S. Verpaele, S. H. B. Inayat-Hussain, J. M. DeSesso, M. Kukumura. Considerations for occupational risk management during pregnancy: A summary of a continuing education course at ICT2022, Toxicology and Industrial Health 2024;40: 605-621. doi: 10.1177/07482337241273833 [ePublished 27 August 2024]

Battersby, R. V., J Adam, A. L. Williams, J. M. DeSesso. Extended one-generation reproductive toxicity study of food-grade titanium dioxide E171 with emphasis on reproductive and endocrine endpoints, Reproductive Toxicology 2024; 130: 108687. doi:10.1016/j.reprotox.2024.108687. [ePublished 21 August 2024]

Wise, L. D, J, M. DeSesso. A critical look at adjusted fetal weights in rats, Birth Defects Research 2024; 118: e2778. doi: 10.1002.bdr2.2278 [ePublished 8 December 2023]

Wise, L. D., J. M. DeSesso. Comments on ‘Maternal–fetal safety evaluation of an aqueous extract of Casearia sylvestris [AECS] leaves in rats’ (Nagaoka et al., 2023) [DOI: 10.1002/bdr2.2257] Birth Defects Research 2024; 116: e2326. doi: 10.1002/bdr2.2326

Wise. LD, Harris SB, Webster, W, DeSesso JM. Recommendation to change the peer review system. Birth Defects Research 2023;. doi: 10.1002/bdr2.2255

Harris SB., DeSesso JM. The status of developmental and reproductive toxicology: The conundrum of acquiring pragmatic training. Current Opinion in Toxicology 2023; 34: 100393. doi: 10.1016/j.cotox.2023.100393 [ePublished 15 March]

Williams AL. DeSesso.JM. Revisiting the testicular toxicity of cyanide: New data and assessment of the existing literature. Birth Defects Research 2023; 115: 687-709. doi: 10.1002/bdr2.2160 [ePublished 16 February 2023]

DeSesso JM. Comparative anatomy, pre- and postnatal changes during the development and maturation of the small intestine: Life-stage influences on exposure. Birth Defects Research 2022; 114: 449-466. doi: 10.1002/bdr2.2015 [ePublished 22 April 2022]

DeSesso JM, Harris SB, Scialli AR, Williams AL. Systematic assessment of quaternary ammonium

compounds for the potential to elicit developmental and reproductive effects, Birth Defects Research 2021; 113: 1484-1511. doi: 10.1002/BDR2.1963 [ePublished 23 October 2021]

Williams AL, Pace ND, DeSesso JM. Teratogen update: Topical use and third generation retinoids. Birth Defects Research 2020; 112:1105-1114. doi: 10.1002/bdr2.1745

Wise LD, Dostal DA, DeSesso JM. Comments on “The teratogenic effects of sertraline in mice” (Cabrera et al., 2020 [DOI: 10.1002/bdr2.1660]),” Birth Defects Research 2020; 112:1025-1027. doi: 10.1002/bdr2.1751

DeSesso JM. Reminiscences of the 36th president. Birth Defects Research 2020; 112:953-954. doi: 10.1002/bdr2.1685.

DeSesso JM. Of embryos and tumors: Cyclopia and the relevance of mechanistic teratology. Birth Defects Research 2019; 112: 219-233 doi: 10.1002/bdr2.1636

DeSesso JM, Coder PS, York RG, Budinsky, Pottenger LH, Sen S, Lucarell JM, Bevan C, Bus JS. Response to the comments of Runyan et al. on “Trichloroethylene in drinking water throughout gestation did not produce congenital heart defects in Sprague Dawley rats,’ Birth Defects Research 2019; https// doi: 10.1002/bdr2.1577

Williams AL, Gollapudi B, Pace ND, and DeSesso JM. Comment on ‘Concentrations of vanadium in urine and seminal plasma in relation to semen quality parameters, spermatozoa DNA damage and serum hormone levels,’ by Wang et al. Science of the Total Environment 2019; 685:772-774, doi: 10.1016/j.scitotenv.2019.06.101

DeSesso JM, Coder PS, York RG, Budinsky, Pottenger LH, Sen S, Lucarell JM, Bevan C, Bus JS. Trichloroethylene in drinking water throughout gestation did not produce congenital heart defects in Sprague Dawley rats, Birth Defects Research 2019; https://doi: 10.1002/bdr2.1531 [ePublished 13 June 2019]

DeSesso JM. The arrogance of teratology: A brief chronology of attitudes throughout history, Birth Defects Res. 2019; 111:123-141. https://doi 10.1002/bdr2.1422 [ePublished 4 December 2018]

Williams AL, Bates CA, Pace ND, Leonhard M, Chang ET, DeSesso JM. Impact of chloroform exposures on reproductive and developmental outcomes: A systematic review of the scientific literature, Birth Defects Res. 2018; 110:1267-1313 https://doi.org/10.1002/bdr2.1382 [ePublished 22 October 2018]

DeSesso JM, Scialli, AR. Bone development in laboratory mammals used in developmental toxicity studies. Birth Defects Res 2018; 110:1157-1187. doi: 10.1002/bdr2.1350.

DeSesso JM, Williams AL, Reiss R. Conflicting views on the potential carcinogenicity of glyphosate: How did we get here and what should we do? J Pub Health Emerg 2017; 1:78. doi: 10.21037/jphe.2017.09.03

DeSesso JM, Risotto S. Review of TCE cardiac defects data by Makris et al. is not systematic. Reprod Toxicol 2017; 71:134. doi: 10.1016/j.reprotox.2017.05.012.

DeSesso JM. Vascular ontogeny within selected thoracoabdominal organs and the limbs. Reprod Toxicol. 2017; 70:3-20. doi: 10.1016/j.reprotox.2016.10.007.

DeSesso JM. Future of developmental toxicity testing. Curr Opin Toxicol. 2017; 3: 1-5. https://doi.org/10.1016/j.cotox.2017.04.001

White TE., Williams AL, DeSesso JM. 2016. Comment on Sweeting and Wells (2015) Reprod Toxicol 2016; 66:124-125. doi: 10.1016/j.reprotox.2016.08.012

Hootnick D, DeSesso JM, Vargesson NA. Congenital embryonic arterial and skeletal dysgeneses. RadioGraphics 2016; 34:1257. doi: 10.1148/rg.2016150243.

Williams AL, DeSesso JM. Comment on 'Effects of in utero exposure to arsenic during the second half of gestation on reproductive end points and metabolic parameters in female CD-1 mice'. Environ Health Perspect, 2016; 124: A46.

Koch MS, DeSesso JM, Williams AL, Michalek SM, Hammond B. Adaptation of the ToxRTool to assess the reliability of toxicology studies conducted with genetically modified crops and implications for a future safety testing. Crit Rev Food Sci Nutr, 2016; 56:512-526. doi: 10.1080/10408398.2013.788994.

Garry MR, Santamaria AB, Williams AL, DeSesso JM. In utero arsenic exposure in mice and early life susceptibility to cancer. Regul Toxicol Pharmacol 2015; 73:378-390. doi: 10.1016/j.yrtph.2015.07.023.

Brouwer K, Aleksunes LM, Brandys B, Giacoia GP, Knipp G, Lukacova V, Meibohm B, Nigam SK, Rieder M, de Wildt SN; Pediatric Transporter Working Group (including DeSesso JM). Human ontogeny of drug transporters: Review and recommendations of the pediatric transporter working group. Clin Pharmacol Therap 2015; 98:266-287. doi: 10.1002/cpt.176.

Stump DG, Holson JF, Harris C, Pearce LB, Watson RE, DeSesso JM. Developmental toxicity in rats of a hemoglobin-based oxygen carrier results from impeded function of the inverted visceral yolk sac. Reprod Toxicol 2015; 52:108-117. doi: 10.1016/j.reprotox.2015.01.005

Holson JF, Stump DG, Pearce LB, Watson RE, DeSesso JM. Lack of developmental toxicity in a canine model of a hemoglobin-based oxygen carrier: Implications for risk assessment. Reprod Toxicol 2015; 52:101-107. doi: 10.1016/j.reprotox.2015.01.006.

Scialli, AR, DeSesso JM, Breckenridge CB. Developmental toxicity with atrazine and its major metabolites in rats. Birth Def Res Part B: Develop Reprod Toxicol 2014; 101: 199-214. doi: 10.1002/bdrb.21099.

Goodman, M, Mandel JS, DeSesso JM, Scialli AR. Atrazine and pregnancy outcomes: A systemic review of epidemiologic evidence. Birth Def Res Part B: Develop Reprod Toxicol 2014; 101:215-236 doi: 10.1002/bdrb.21101.

DeSesso, JM, Scialli AR, White TEK, Breckenridge CB. Atrazine multigeneration reproductive toxicity and male developmental reproduction studies in rats. Birth Def Res Part B: Develop Reprod Toxicol 2014; 101:237-253 doi: 10.1002/bdrb.21106.

Williams, AL, DeSesso JM. Gestational/perinatal chlorpyrifos exposure is not associated with autistic-like behaviors in rodents. Crit Rev Toxicol 2014; May 27:1-12. doi: 10.3109/10408444.2014.907772..

Kimmel GL, Kimmel CA, Williams AL, DeSesso JM. Evaluation of the potential developmental toxicity of glyphosate with attention to cardiovascular malformations. Crit Rev Toxicol 2013; 43:79-95. doi: 10.3109/10408444.2012.749834].

Reiss R, Johnston J, Tucker K, DeSesso J, Keen C. Estimation of cancer risks and benefits associated with potential increased consumption of fruits and vegetables. Food Chem Toxicol, 2012; 50:4421-4427. doi: 10.1016/j.fct.2012.08.055

DeSesso, JM, Watson RE, Williams AL. Response to the comments of Defarge and colleagues. J Toxicol Environ Health Part B: Critical Reviews 2012; 15:438-440.

DeSesso JM, Williams AL. Comment on "Glyphosate impairs male offspring reproductive development by disrupting gonadotropin expression" by Romano et al, 2012, Arch Toxicol 2012; 86:1791-1793. doi: 10.1289/ehp.1511031

DeSesso, JM, Watson RE, Williams AL. Response to the comments of Bellé and colleagues. J Toxicol Environ Health Part B: Critical Reviews 2012; 15: 236-237.

DeSesso, JM, Williams AL, Ahuja A, Bowman CJ, Hurtt ME. The placenta, transfer of immunoglobulins, and safety assessment of biopharmaceuticals in pregnancy. Crit Rev Toxicol 2012; 42:185-210. doi: 10.3109/10408444.2011.653487

Williams, AL, Watson RE, DeSesso JM. Developmental and reproductive outcomes in humans and animals after glyphosate exposure: A critical analysis of available literature. J Toxicol Environ Health Part B: Critical Reviews 2012; 15:39-96. doi: 10.1080/10937404.2012.632361

Williams AL, DeSesso JM. The potential of perinatal exposure to selected brominated flame retardants to affect motor activity. J Toxicol Environ Health Part B: Critical Reviews 2010; 13:411-448. doi: 10.1080/10937401003751630

Mavis RD, DeSesso JM. Developmental perchlorate exposure and synaptic transmission in hippocampus. Environ Health Perspect 2009, 117: A2-A3. doi: 10.1289/ehp.0800532.

DeSesso JM, Watson RE, Keen CL, Hazelden KP, Haws LC, Li AA. Analysis and integration of developmental neurotoxicity and ancillary data into risk assessment: A case study of dimethoate. J Toxicol Environ Health Part A: Current Issues 2009; 72:94-109. doi: 10.1080/15287390802477452

Williams AL, DeSesso JM. Trichloroethylene and ocular malformations: Analysis of extant literature. Int J Toxicol 2008; 27:81-95. doi: 10.1080/10915810701876760.

DeSesso JM, Lavin Williams A. Contrasting the gastrointestinal tracts of mammals: factors that influence absorption. Ann Rep Medicinal Chem 2008, 43:353-371. https://doi.org/10.1016/S0065-7743(08)00021-3

Doull J, Borzelleca F, Becker R, Daston G, DeSesso J, Fan A, Fenner-Crisp P, Holsapple M, Holson J, Llewellyn GC, MacGregor J, Seed J, Walls I, Woo Y-T. Framework for use of toxicity screening tools in context-based decision-making. Food Chem Toxicol 2007; 45:759-796. doi: 10.1016/j.fct.2006.10.025

DeSesso JM, Watson RE. The case for integrating low dose, beneficial responses into US EPA Risk Assessments. Hum Exper Toxicol 2006; 25:7-10. doi: 10.1191/0960327106ht578oa

Irvine L, Boyer IJ, DeSesso JM. Monomethylarsonic acid and dimethylarsinic acid: developmental toxicity studies with risk assessment. Birth Def Res (Part B): Develop Reprod Toxicol 2006; 77:53-68. doi: 10.1002/bdrb.20065

Watson RE, DeSesso JM, Hurtt ME, Cappon GD. Postnatal growth and morphological development of the brain: A species comparison. Birth Def Res (Part B): Develop Reprod Toxicol 2006; 77:471-484. doi: 10.1002/bdrb.20090

Watson RE, Jacobson CF, Lavin Williams A, Howard WB, DeSesso JM. Trichloroethylene-contaminated drinking water and congenital heart defects: A critical analysis of the literature. Reprod Toxicol 2006; 21:117-147. doi: 10.1016/j.reprotox.2005.07.013

DeSesso JM, Watson RE. Should apparently beneficial effects of low dose exposures to agents be integrated into risk assessments Performed by the U.S. Environmental Protection Agency?" BELLE 2005; 13:7-10.

Holson JF, Stump DG, Pearce LB, Watson RE, DeSesso JM. Mode of action: Yolk sac poisoning and impeded histiotrophic nutrition. HBOC-related congenital malformations. Crit Rev Toxicol 2005; 35:739-745. doi: 10.1080/10408440591007412

Seed J, Carney EW, Corley RA, Crofton KM, DeSesso JM, Foster PMD, Kavlock R, Kimmel G, Klaunig J,

Meek ME, Preston RJ, Slikker W, Tabacova S, Williams GM, Wiltse J, Zoeller RT, Fenner-Crisp P, Patton DE. Overview: Using mode of action and life stage information to evaluate the human relevance of animal toxicity data. Crit Rev Toxicol 2005; 35:663-672. doi: 10.1080/10408440591007133

Carney EW, Scialli AR, Watson RE, DeSesso JM. Mechanisms regulating toxicant disposition to the embryo during early pregnancy: An interspecies comparison. Birth Def Res (Part C): Embryol Today 2004; 72:345-360. doi: 10.1002/bdrc.20027

Julien EA, Willhite CC, Richard AM, DeSesso JM. Challenges in constructing statistically based structure-activity relationship models for developmental toxicity. Birth Def Res (Part A): Clin Molec Teratol 2004; 70:902-911. doi: 10.1002/bdra.20087

Morford LL, Henck JW, Breslin WJ, DeSesso JM. Hazard identification and predictability of children's health risks from animal data. Environ Health Perspect 2004; 112:266-271. doi: 10.1289/ehp.6014

Thomas JA, DeSesso JM, Fowler BA, Ginsberg GL, Hansen D, Hines CJ, Hines R, Portier K, Rozman KK. NTR-CERHR expert panel report on the reproductive and developmental toxicity of ethylene glycol. Reprod Toxicol 2004; 18:457-532. doi:10.1016/j.reprotox.2004.01.003

Thomas JA, DeSesso JM, Fowler BA, Ginsberg GL, Hansen D, Hines CJ, Hines R, Portier K, Rozman KK. NTR-CERHR expert panel report on the reproductive and developmental toxicity of propylene glycol. Reprod Toxicol 2004; 18:532-579. doi:10.1016/j.reprotox.2004.01.004

Cook JC, Jacobson CF, Gao F, Tassinari MS, Hurtt ME, DeSesso JM. Analysis of nonsteroidal anti-inflammatory drug literature for potential developmental toxicity in rats and rabbits. Birth Def Res (Part B): Develop Reprod Toxicol 2003; 68:5-26. doi: 10.1002/bdrb.10005

DeSesso JM, Jacobson CF. Response to the commentary of Wu et al. Food Chem Toxicol 2002; 40:1903-1904.

DeSesso JM. Bendectin. Reprod Toxicol 2001; 15:733. doi: 10.1016/s0890-6238(01)00169-1

DeSesso JM. Teratogen update: Inorganic arsenic. Teratology 2001; 64:170-173. doi: 10.1002/bdrb.10005

DeSesso JM, Jacobson CF. Anatomical and physiological parameters affecting gastrointestinal absorption in rats and humans. Food Chem Toxicol 2001; 39:209-228. doi: 10.1016/S0278-6915(00)00136-8

DeSesso JM, Lavin AL. Debate commentary: Should trichloroethylene be considered a human carcinogen? Hum Ecol Risk Assess 2001; 7:651-655.

Barr Jr. M, DeSesso JM, Lau CS, Osmond C, Ozanne SE, Sadler TW, Simmons RA, Sonawane BR. Workshop to identify critical windows of exposure for children's health: Cardiovascular and endocrine workgroup. Environ Health Perspect 2000; 108(Suppl. 3):569-571. doi 10.1289/ehp.00108s3569

DeSesso JM, Jacobson CF, Scialli AR, Goeringer GC. Hydroxylamine moiety of developmental toxicants is associated with early embryonic cell death: A structure-activity analysis. Teratology 2000; 62:346-355. doi: 10.1002/1096-9926(200011)62:5<346::AID-TERA9>3.0.CO;2-1

DeSesso JM, Lavin AL, Hsia SM, Mavis RD. Absence of carcinogenic potential of orally administered hydrogen peroxide. Food Chem Toxicol 2000; 38:1021-1041. doi: 10.1016/S0278-6915(00)00098-3

Holson JF, DeSesso JM, Jacobson CF, Farr CH. Appropriate use of animal models in the assessment of risk during prenatal development: An illustration using inorganic arsenic. Teratology 2000; 62:51-71. doi: 10.1002/1096-9926(200007)62:1<51::AID-TERA10>3.0.CO;2-T

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Lavin AL, Jacobson CF, DeSesso JM. Assessment of the carcinogenic potential of trichloroethylene to humans. Hum Ecol Risk Assess 2000; 6:575-641. doi: 10.1080/10807030008951331

DeSesso JM, Scialli AR, Holson JF. Apparent lability of neural tube closure in laboratory animals and humans. Am J Med Genetics 1999; 87:143-162. doi: 10.1002/(sici)1096-8628(19991119)87:2<143::aid-ajmg6>3.0.co;2-j

Jacobson CF, Stump DG, Nemec MD, Holson JF, DeSesso JM. Appropriate exposure routes and doses in studies designed to assess developmental toxicity: A case study of inorganic arsenic. Int J Toxicol 1999; 18:361-368. doi: 10.1080/109158199225279

DeSesso JM, Jacobson CF, Scialli AR, Farr CH, Holson JF. An assessment of the developmental toxicity of inorganic arsenic. Reprod Toxicol 1998; 12:389-433. doi: 10.1016/s0890-6238(98)00021-5

Scialli AR, Waterhouse TB, DeSesso JM, Rahman A, Goeringer GC. Protective effect of liposome encapsulation on paclitaxel developmental toxicity in the rat. Teratology 1997; 56:305-310. doi: 10.1002/(SICI)1096-9926(199711)56:5<305::AID-TERA3>3.0.CO;2-W

DeSesso JM. Anatomical relationships of urinary bladders compared: Their potential role in the development of bladder tumors in humans and rats. Food Chem Toxicol 1995; 33:705-714. doi: 10.1016/0278-6915(95)00039-5

Burin GJ, Clayson DB, Cohen SM, DeSesso JM, Elwein LB, Fishbein L, Frederick C, Gibb H, Gorelick NJ, Hard GC, Hill RN, King C, Lorentzen RJ, Oyasu R, Rice JM, Sandusky C, Wang CY, Ward JM. Urinary bladder carcinogenesis: Implications for risk assessment. Food Chem Toxicol 1995; 33:797-802. doi: 10.1016/0278-6915(95)90044-6

Scialli AR, DeSesso JM, Rahman A, Husain SR, Goeringer GC. Embryotoxicity of free and liposome-encapsulated taxol in the chick. Pharmacology 1995; 51:145-151. doi: 10.1159/000139328

DeSesso JM. Comparative anatomy and physiology of rat, monkey, and human nasal passages. Inhal Toxicol 1994; 6(Suppl.):360-362.

Harris SB, DeSesso JM. Practical guidance for evaluating and interpreting developmental toxicity tests. J Haz Mater 1994; 39:245-266. doi:10.1016/0304-3894(94)00052-2

DeSesso JM, Harris SB, Hendrickx AG, Holson JF, Kimmel CA, Kimmel GL, Scott Jr. WJ, Skalko RG. On the subject of incorrect terminology. J Am Coll Toxicol 1994, 13:321-325. doi: 10.1002/tera.1420490404

DeSesso JM, Scialli AR, Goeringer GC. D-mannitol, a specific hydroxyl free radical scavenger, reduces the developmental toxicity of hydroxyurea in rabbits. Teratology 1994; 49:248-259.

Scialli AR, DeSesso JM, Goeringer GC. Taxol and embryonic development in the chick. Teratogen Carcinogen Mutagen 1994; 14:23-30. doi: 10.1002/tcm.1770140104

DeSesso JM. The relevance to humans of animal models for inhalation studies of cancer in the nose and upper airways. Quality Assurance: Good Practice, Regulation and Law 1993; 2:213-231.

Steinberg AD, DeSesso JM. Are animal data being used appropriately to protect humans from environmental trichloroethylene and from its major metabolite, chloral hydrate? Regul Toxicol Pharmacol 1993; 18:137-153. doi: 10.1006/rtph.1993.1049

DeSesso JM, Goeringer GC. Methotrexate induced developmental toxicity in rabbits is ameliorated by 1-(p-tosyl)-3,4,4-trimethylimidazolidine, a functional analog for tetrahydrofolate mediated one carbon transfer. Teratology 1992; 45:271-283. doi: 10.1002/tera.1420450306

DeSesso JM, Goeringer GC. Amelioration by leucovorin of methotrexate developmental toxicity in rabbits. Teratology 1991; 43:201-215. doi: 10.1002/tera.1420430304

DeSesso JM, Goeringer GC. Developmental toxicity of hydroxylamine: An example of a maternally mediated effect. Toxicol Indust Health 1990; 6:109 121. doi: 10.1177/074823379000600107

DeSesso JM, Goeringer GC. Ethoxyquin and nordihydroguaiaretic acid reduce hydroxyurea developmental toxicity. Reprod Toxicol 1990; 4:267-275. doi: 10.1016/0890-6238(90)90038-w

DeSesso JM, Goeringer GC. The nature of the embryo-protective interaction of propyl gallate with hydroxyurea. Reprod Toxicol 1990; 4:145-152. doi: 10.1016/0890-6238(90)90009-k

DeSesso JM. Confounding factors in direct bladder exposure studies. Comments on Toxicology 1989; 3:317-334.

DeSesso JM. Proliferative lesions of the bladder: Their development and interrelationships. Comments on Toxicology 1989; 3:335-348.

DeSesso JM, Niewenhuis RJ, Goeringer GC. Lectin teratogenesis II: Demonstration of increased binding of concanavalin A to limb buds of rabbit embryos during the sensitive period. Teratology 1989; 39:395-407. doi: 10.1002/tera.1420390411

Skalko, RG, Johnson EM, Chernoff N, Cozens D, DeSesso JM, Fantel, George JD, Henry MC, Hill DE, Hutchings DE, Kalter H, Kenel M, Kille JW, Markham JK, Ruddick JA, Staples RE, Wier PW, Zeman FJ, Zenick H. Consensus workshop on the evaluation of maternal and developmental toxicity work group I report: End points of maternal and developmental toxicity, Teratogen Carcinogen Mutagen 1987; 7: 307-310.

DeSesso JM. Maternal factors and developmental toxicity. Teratogen Carcinogen Mutagen 1987; 7:225-240. doi: 10.1002/tcm.1770070305

Brown KS, DeSesso JM, Hassell J, Klein NW, Rowland JM, Steffek AJ, Carlton BD, Grabowski C, Slikker Jr., W, Walsh D. Comments on "Teratogen update: Bendectin. Teratology 1985; 31:431.

Sugrue SP, DeSesso JM. Altered glycosaminoglycan composition of rat forelimb buds during hydroxyurea teratogenesis: An indication of repair. Teratology 1982; 26:71-83. doi:10.1002/tera.1420260111

DeSesso JM. Amelioration of teratogenesis: I. Modification of hydroxyurea-induced teratogenesis by the antioxidant propyl gallate. Teratology 1981; 24:19-35. doi: 10.1002/tera.1420240104

DeSesso JM. Comparative ultrastructural analysis of rabbit limb buds subsequent to a teratogenic dose of either hydroxyurea or methotrexate. Teratology 1981; 23:197-216. doi: 10.1002/tera.1420230205

Millicovsky G, DeSesso JM, Clark KE, Kleinman LI. Effects of hydroxyurea on maternal hemodynamics during pregnancy: A maternally mediated mechanism of embryotoxicity. Am J Obstet Gynecol 1981; 140:747-752. doi: 10.1016/0002-9378(81)90734-1

Scott WJ, Hirsch KS, DeSesso JM, Wilson JG. Comparative studies on acetazolamide teratogenesis in pregnant rats, rabbits and rhesus monkeys. Teratology 1981; 24:37-43. doi: 10.1002/tera.1420240105

Millicovsky G, DeSesso JM. Cardiovascular alterations in rabbit embryos in situ after a teratogenic dose of hydroxyurea: An in vivo microscopic study. Teratology 1980; 22:115-124. doi: 10.1002/tera.1420220114

Millicovsky G, DeSesso JM. Differential embryonic cardiovascular responses to acute maternal uterine ischemia: An in vivo microscopic study of rabbit embryos with either intact or clamped umbilical cords. Teratology 1980; 22:335-343. doi: 10.1002/tera.1420220311

DeSesso JM. Cell death and free radicals: A mechanism for hydroxyurea teratogenesis. Med Hypotheses 1979; 5:937-951. doi:10.1016/0306-9877(79)90043-4

DeSesso JM. Lectin teratogenesis: Defects produced by concanavalin A in fetal rabbits. Teratology 1979; 19:15-26. doi: 10.1002/tera.1420150211

DeSesso JM, Jordan RL. Drug induced limb dysplasias in fetal rabbits. Teratology 1977; 15:199-212. doi: 10.1002/tera.1420150211

Book Chapters

Harris SB, Thompson KL, Coder PS, Mylcreest E, Williams AL, DeSesso JM. Female reproductive and developmental toxicology, Chapter 38, pp 1897-1950 In: Principles and Methods of Toxicology, 7th Edition, A. W. Hayes, T Kobets, eds, CRC Press, Boca Raton, FL, 2023. doi: 10.1201/9781003390008-42.

DeSesso JM, Williams AL. Periods of susceptibility: Interspecies comparison of developmental milestones during ontogenesis of the central nervous system. Chapter 10, pp. 113-125. In Handbook of Developmental Neurotoxicology, 2nd Ed, W Slikker, MG Paule, C Wang, eds., Academic Press, Elsevier Ltd, London, 2018.

DeSesso JM, Williams AL. Embryotoxicity: Anatomical, physiological, and functional. Chapter 5.03, pp. 21-33. In Comprehensive Toxicology, 3rd Ed, C. A. McQueen Editor-in-Chief, Volume 5. Developmental Toxicology, Dolinoy D ed., Elsevier, Ltd, Oxford, UK, 2018.

DeSesso, JM, Jacobson CF, Williams AL. Anatomical and physiological parameters that influence gastrointestinal absorption. Chapter 2, pp. 43-78. In: Encyclopedia of Drug Metabolism and Interactions, Volume 2, Lyubimov A (ed), John Wiley and Sons, New York, 2012.

DeSesso, JM. Comparative gestational milestones in vertebrate development. Chapter 6, pp. 93-139. In: Developmental and Reproductive Toxicology: A Practical Approach, Third Edition. Hood RD (ed), Informa Press, New York, 2012.

DeSesso JM. Embryotoxicity: Anatomical, physiological, functional. Chapter 12.03, pp. 11-25. In: Comprehensive Toxicology, Second Edition. Developmental Toxicology, Knudsen TB and Daston GP (eds), Elsevier, Ltd, Oxford, UK, 2010.

DeSesso JM, Venkat AG. Cardiovascular development and malformation. Chapter 13, pp. 223-248. In: Reproductive Toxicology, Third Edition. Tyl RW and Kapp RW, (eds), Informa Press, New York, 2010.

Willhite CC, DeSesso JM. Developmental Toxicology. Chapter 76, pp. 1909-1951 In: General and Applied Toxicology, Third Edition, Ballantyne B, Marrs T, Syverson T (eds), John Wiley and Sons, Ltd, Chichester, West Sussex, UK, 2009.

DeSesso JM. Functional anatomy of the brain. Chapter 1. pp.1-14. In: Metabolic Encephalopathies. McCandless DL (ed), Springer Verlag, Inc., Philadelphia, 2009.

DeSesso JM. Comparative features of vertebrate embryology. Chapter 6. pp. 147-197. In: Developmental and Reproductive Toxicology: A Practical Approach, Second Edition, Hood RD (ed), CRC Press, Inc., Boca Raton, FL, 2006.

DeSesso JM. Comparative embryology. Chapter 6. pp. 111-174. In: Handbook of Developmental

Toxicology, Hood RD (ed), CRC Press, Inc., Boca Raton, FL, 1997.

DeSesso JM, Harris SB. Principles underlying developmental toxicology. Chapter 4. pp. 37-56. In: Toxicology and Risk Assessment, Fan AM, Chang LW (eds), Marcel Dekker, New York, NY, 1996.

DeSesso JM, Harris SB, Swain SM. Performing, evaluating and interpreting developmental toxicity tests. Chapter 11. pp. 171-186. In: Toxicology and Risk Assessment, Fan AM, Chang LW (eds), Marcel Dekker, New York, NY, 1996.

DeSesso JM. Comparative anatomy and physiology of rat, monkey, and human nasal passages. pp. 360-362. In: Nasal Toxicity and Dosimetry of Inhaled Xenobiotics: Implications for Human Health, Miller FJ (ed), Taylor and Francis, Washington, DC, 1995.

DeSesso JM. Guidance for performing ecological risk assessments at hazardous waste sites. pp. 44-60. In: Environmental Toxicology and Risk Assessment — Third Volume, Hughes JS, Biddinger GR, Mones E (eds), Special Technical Publication 1218, American Society of Testing Materials, Philadelphia, PA, 1995.

Published Abstracts

Calkins TL, PS Coder, MA Greeley, EJ Sung, L Blankenship, JM Nussbaum, C Grant, A Bond, AA Li, JM DeSesso. Fetal lung development, lung surfactant, and parturition: An investigation of a rat specific parturition paradigm, Birth Defects Research 2024; 116: S72-S73 presented at the 64th Annual Meeting of the Society for Birth Defects Research and Prevention, Pittsburgh, PA, 24 June. DOI: 10.13140/RG.2.2.16074.99523

Williams AL, DeSesso JM. An extended one-generation reproductive toxicity study (EOGRT) of food-grade titanium dioxide. Presented at the 63rd Annual Meeting of the Society for Birth Defects Research and Prevention, Charleston, SC, 26 June, 2023. Birth Defects Research 115: 884.

DeSesso JM, Williams AL. Evaluation of the developmental and reproductive toxicity potential of titanium dioxide. Presented at the 63rd Annual Meeting of the Society for Birth Defects Research and Prevention, Charleston, SC, 26 June. Birth Defects Research 2023; 115: 881.

Farmer D, Borgert C, Levine S, Saltmiras D, Klaunig J, DeSesso J. Glyphosate is not an endocrine disruptor: Weight of evidence versus key characteristics for endocrine disruption assessment. Presented at the 62nd Annual Meeting of the Society of Toxicology, Nashville, TN, 23 March 2023.

Roberts L, DeSesso J. A framework for occupational risk management for pregnant workers CEC06-01. Presented a part of the continuing education course “Considerations for Occupational Risk Management during Pregnancy” at the XVIth International Congress of Toxicology (ICT 2022). Toxicology Letters 2022; 368 (Suppl 1): S7. https://ict-2022.elsevierdigitaledition.com/8/

DeSesso JM, Harris SB, Scialli AR, Williams AM. Systematic assessment of QUATs for the potential to elicit developmental and reproductive effects.”. Presented at the 61st Annual Meeting of the Teratology Society (Virtual), 26-29 June, 2021. Birth Defects Research 113: 810

Hootnick DR, DeSesso JM. A new entity: Vascular induced skeletal dystrophisms of the lower limb” Presented at the 61st Annual Meeting of the Teratology Society (Virtual), 29 June, 2021. Birth Defects Research 113: 785.

Williams AL, DeSesso JM. Revisiting the testicular toxicity of cyanide: New data and weight-of-evidence review,” presented at the 60th Annual Meeting of the Society of Toxicology (Virtual), 14-18 March, 2012.

DeSesso JM, Coder PS, York RG, Budinsky RA, Pottenger LH, Sen S, Lucarell JM, Bevan CJ, Bus JS.

(2019) Trichloroethylene (TCE) in drinking water does not cause heart defects in rats, Presented at the 59th Annual Meeting of the Teratology Society, San Diego, CA, 23-26 June, 2019. Birth Defects Research 111: 527.

Williams AL, Campetella S, DeSesso JM. Retinoid teratogenicity: A critical evaluation of contributing properties for adapalene. Presented at the 59th Annual Meeting of the Teratology Society, San Diego, CA, 23-26 June, 2019. Birth Defects Research 111:318.

Williams, A. L., J. M. DeSesso. Evaluation of the available male reproductive data for nickel and nickel compounds. Presented at the 59th Annual Meeting of the Teratology Society, San Diego, CA, 23-26 June; 2019. Birth Defects Research 111:497.

DeSesso JM, Coder PS, York RG, Budinsky, Pottenger LH, Sen S, Lucarell JM, Bevan C, Bus JS.) Trichloroethylene (TCE) in drinking water does not cause heart defects in rats, presented at the 59th Annual Meeting of the Teratology Society, San Diego, CA, 23-26 June, 2019. Birth Defects Research 111:527.

DeSesso JM. The arrogance of teratology. Presented at the Annual Meeting of the Teratology Society, Clearwater Beach, FL, June 24, 2018; Birth Defects Research 110: 712.

DeSesso JM. Changes in the developing gastro-intestinal tract: Impacts on exposure and susceptibility. Presented at the Annual Meeting of the Teratology Society, Clearwater Beach, FL, June 27, 2018; Birth Defects Research 110: 739.

Williams AL, Bates CA, DeSesso JM. Evaluation of DART data pertaining to reclassification of chloroform as a Proposition 65 reproductive toxicant. Presented at the Annual Meeting of the Teratology Society, Clearwater Beach, FL, June 26, 2018; Birth Defects Research 110: 800.

Williams AL, Bates CA, DeSesso JM. Impact of chloroform exposure on reproductive and developmental outcomes: A systematic review of the literature. Presented at the Annual Meeting of the Society of Toxicology, San Antonio, TX, March 13, 2018; The Toxicologist 2018; 144: Abstract No. 2771.

Williams AL, DeSesso JM. Ontogeny of the central nervous system across species. Birth Defects Res 2017; 109:688.

DeSesso JM. Interspecies comparison of placental structure and function with attention to transfer of immunoglobulins and biopharmaceuticals. Presented at the Emerging Issues of Immunotoxicology of Pharmaceuticals Symposium at the XIV International Congress of Toxicology, Merida, Mexico, Toxicology Letters 2016; 259S: S4 http://dx.doi.org/10.1016/j.toxlet.2016

DeSesso JM. Cross-species ontogeny of placental Fc receptors: What we think we know and what we know we don't. Presented at the 56th Annual Meeting of the Teratology Society, San Antonio, Texas, June29, Birth Defects Research Part A, 2016; 106: 374.

DeSesso JM, Farmer DR, Packard, Jr. DS. Anatomical inferences regarding gestational stage and location of teratogenic events in human limbs. Presented at the Annual Meeting of the Teratology Society, Montreal, Quebec, June 29, Birth Def Res Part A 2015; 103:354.

Garry MR, Santamaria AB, Williams AL, DeSesso JM. Arsenic and transplacental carcinogenesis. Presented at the Annual Meeting of the Society of Toxicology, San Diego, CA, March 23, 2015; The Toxicologist 2015; 133: Abstract No. 584.

Williams AL, DeSesso JM. Animal behavior after perinatal chlorpyrifos exposure is not autistic-like. Presented at the Annual Meeting of the Teratology Society, Bellevue, WA, June 28-July 2, 2014 Birth Def Res (Part A);100:411.

Lichter SR, DeSesso JM. Scientist's attitudes toward regulatory risk assessment. Presented at the Annual Meeting of the Society of Toxicology, Phoenix, AZ, March 24-27, 2014; The Toxicologist 2014; 133: Abstract No. 1831a.

Williams AL, DeSesso, JM. The behaviors associated with developmental chlorpyrifos exposure are inconsistent with autism. Presented at the Annual Meeting of the Society of Toxicology, Phoenix, AZ, March 24-27, 2014; The Toxicologist 2014; 133: Abstract No. 1805.

DeSesso JM Value of studies in juvenile animals for human risk assessment. Toxicol Lett 2013; 221S: S549-S550.

Williams AL, Kimmel GL, Kimmel CA, DeSesso JM. Evaluation of the glyphosate developmental toxicity database: Absence of potential for cardiovascular malformations. The Toxicologist 2013; 126: Abstract No. 2242.

DeSesso JM. Physiology of the placenta: Differences between species and potential impact to regulatory testing. Birth Defects Res (Part A) 2012; 94:371.

Kimmel CA, Garry MR, DeSesso JM. Relationship between bent long bones, bent scapulae and wavy ribs: Malformations or variations? Birth Defects Res (Part A) 2011; 91:357.

DeSesso JM, Williams AL, Koren G. Topiramate and birth defects: An update. The Toxicologist 2011; 120: Abstract No. 810.

Williams AL, DeSesso, JM. Genetically-modified soybeans - Critical evaluation of studies addressing potential ultrastructural changes associated with consumption. The Toxicologist 2010; 114: Abstract No. 1154.

Boyer IJ, Kutzman RS, Williams AL, DeSesso JM, Buthod JL, Cox J, Whitmire MT, Roszell LE. Development of predictive toxicity measures for assessing risks from catastrophic chemical releases. The Toxicologist 2010; 114: Abstract No. 1917.

Williams AL DeSesso JM. Comparative mammalian gastrointestinal absorption: The influence of various gastrointestinal factors. The Toxicologist 2009; 108: Abstract No. 1411.

Watson RE, Lavin Williams A, Farmer DR, DeSesso JM. Is glyphosate a developmental and/or reproductive toxicant? A critical analysis of the literature. Birth Defects Res (Part A) 2006; 76:383.

Watson RE, Howard WB, DeSesso JM. Does trichloroethylene cause congenital heart defects? Toxicol Sci 2005, 84: S:429.

Watson RE, Jacobson CF, Lavin Williams A, Howard WB, DeSesso JM. Gestational exposure to trichloroethylene and risk of congenital heart defects: An assessment. Birth Defects Res (Part A) 2005; 73:304.

DeSesso JM, Holson JF. An analysis and review of the relative morphology of extraembryonic membranes in mammals and their roles in histiotrophic nutrition and as possible sites of developmental insult. Birth Defects Res (Part A), 2003; 67:346.

Lavin AL, DeSesso JM. An assessment of the human risks associated with radiofrequency exposure. Toxicol Sci 2002; 66 S:159.

DeSesso JM. Anatomical and developmental (A & D) aspects of the maternal-embryonal interface. Teratology 2000; 61:468.

Scarano LW, DeSesso JM, Jacobson CF. A proposal for incorporating oral bioavailability in human health

risk assessments. Toxicol Sci 2000; 54S:111.

DeSesso JM. Interpreting conflicting animal studies in human risk assessment. Int J Toxicol 1999; 18:81.

DeSesso JM, Jacobson CF, Scialli AR, Farr CH, Holson JF. Inorganic arsenic is not likely to be a developmental toxicant at environmentally relevant exposures. Teratology 1998; 57:216.

Reynolds VL, DeSesso JM, Mast RW, Stump DG, Holson JF. reproductive toxicity studies with octamethylcyclotetrasiloxane in female rats using multiple exposure regimens. Toxicol Lett 1998; 95 (Suppl. 1):216.

DeSesso JM. Use of physiologically based pharmacokinetic (PBPK) models in developmental and reproductive toxicology studies: An overview. Int J Toxicol 1997; 16:673.

Johnson DL, Harris SB, de Peyster A, DeSesso JM. Effect of intravenous methotrexate (MTX) and leucovorin (LV) on DNA synthesis in New Zealand white rabbit embryos. Teratology 1997; 55:64.

Goeringer GC, DeSesso JM, Rahman A, Scialli AR. The effect of liposome encapsulation on taxol developmental toxicity in the rat. Teratology 1996; 53:100.

Goeringer GC, Scialli AR, DeSesso JM, Crisp T. Effects of methotrexate on progesterone production by cultured rat granulosa cells and the potential ameliorative effects of leucovorin. Teratology 1996; 53:110.

DeSesso JM, Harris SB, Scialli AR, Goeringer GC. Early microscopic observations of thalidomide-induced limb defects in New Zealand WHITE RABBITS. Molec Biol Cell 1995; 6:206a.

DeSesso JM, Harris SB, Scialli AR, Goeringer GC. New observations on the developmental toxicity and histopathogenesis of thalidomide in the New Zealand white rabbit. Teratology 1995; 51:172.

DeSesso JM, Scialli AR, Goeringer GC. Observations on the histopathogenesis of 5-fluorouracil developmental toxicity in New Zealand white rabbits and its amelioration by TTI, a functional analog of one carbon metabolism. Teratology 1995; 51:167.

Scialli AR, DeSesso JM, Rahman A, Husain SR, Goeringer GC. Dose-response comparison of free and liposome-encapsulated taxol. Teratology 1995; 51:169.

DeSesso JM, Scialli AR, Goeringer GC. Developmental toxicity of 5-fluorouracil and amelioration by folate analogs in the New Zealand white rabbit embryo. Teratology 1994; 49:369.

Goeringer GC, Scialli AR, DeSesso JM. Developmental toxicity in rabbits induced by aminopterin is decreased by 1-(p-tosyl)-3,4,4-trimethylimidazoladine, a functional analog for tetrahydrofolate-mediated one carbon transfer. Teratology 1994; 49:368.

Scialli AR, DeSesso JM, Rahman A, Husain SR, Goeringer GC. Taxol and liposome toxicity in the embryonic chick. Teratology 1994; 49:404*405.

DeSesso JM, Scialli AR, Goeringer GC. Azo-bis-(cyclohexanecarbonitrile), a free radical initiator, causes early cellular changes in rabbit embryos. Teratology 1993; 47:417.

DeSesso JM, Scialli AR, Goeringer GC. Hydroxyl free radicals cause early hydroxyurea cell death. Teratology 1993; 47:396-397.

DeSesso JM. The complexities of limb malformations: Multiple mechanisms and pathways contributing to teratogenesis. Anatom Rec 1992; 232:27A.

Scialli AR, DeSesso JM, Goeringer GC. Taxol toxicity in the developing chick. Teratology 1992; 45:478.

DeSesso JM. Ocular exposure to soman: A shortcut to the brain? p. A-26. Proceedings, Conference on Chemical Risk Assessment in the DoD: Science, Policy and Practice. AL-TR-1993-0001, Clewell HJ (ed), American Conference of Government Industrial Hygienists, Inc., 1991.

DeSesso JM, Goeringer GC. The hydroxylamine moiety of developmental toxicants causes early embryonic cell death. p. A-27. Proceedings, Conference on Chemical Risk Assessment in the DoD: Science, Policy and Practice. AL-TR-1993-0001, Clewell HJ (ed), American Conference of Government Industrial Hygienists, Inc., 1991.

Collins M, Richburg V, Scott WJ, DeSesso JM. amelioration of hydroxyurea in whole embryo culture with antioxidant substances. Teratology 1991; 43:417.

DeSesso JM, Price FT, Attebery CW, dePersia LR. General guidance for ecological risk assessments at Air Force installations. p. A-25. Proceedings, Conference on Chemical Risk Assessment in the DoD: Science, Policy and Practice. AL-TR-1993-0001, Clewell HJ (ed), American Conference of Government Industrial Hygienists, Inc., 1991.

DeSesso JM, Goeringer GC. Hydroxyurea developmental toxicity in rabbit embryos is ameliorated by D-mannitol, a specific scavenger for hydroxyl free radicals. Teratology 1990; 41:550.

Goeringer GC, DeSesso JM. Antifolate induced developmental toxicity in rabbits: The fundamental role of one carbon metabolism. J Cell Biol 1990; 111:485a.

Goeringer GC, DeSesso JM. Developmental toxicity in rabbits of the antifolate aminopterin and its amelioration by leucovorin. Teratology 1990; 41:560-561.

DeSesso JM, Farmer DR, Nelson MD, Underhill CB, Goeringer GC. Differential targets of methotrexate in rabbit limb buds: Early morphological changes occur in mesenchymal cells but not in endothelial cells. Teratology 1990; 41, p 549.

DeSesso JM. The teratogenic mechanism of concanavalin A. MITRE Toxicology Seminar Series, 9 May 1989. Abstract. pp. 18-21. Proceedings, MITRE Toxicology Seminar Series: Mechanisms of Toxicity, 1989.

DeSesso JM, Goeringer GC. Amelioration of methotrexate developmental toxicity by a biomimetic tetrahydrofolate coenzyme model. Teratology 1989; 39:449.

DeSesso JM, Goeringer GC. Early embryonic cell death is associated with the presence of a hydroxylamine moiety on developmental toxicants: A structure-activity analysis. Teratology 1989; 39:449.

DeSesso JM, Goeringer GC. Hydroxyurea developmental toxicity is ameliorated by three structurally different antioxidants. Teratology 1989; 39:449-450.

DeSesso JM, Goeringer GC, Underhill CB. Early events in rabbit limb buds associated with methotrexate developmental toxicity and its amelioration by leucovorin. Teratology 1989 39:450.

Goeringer GC, DeSesso JM. Early embryonic cell death is associated with the hydroxylamine moiety of developmental toxicants. J Cell Biol 1988; 107:609a.

DeSesso JM. Amelioration of the developmentally toxic effects of methotrexate in rabbits by leucovorin. Anat Rec 1987; 218:34A.

DeSesso JM. Embryonic cell death caused by hydroxyurea and three other hydroxylamine-containing compounds. Teratology 1987; 35:43A.

DeSesso JM, Goeringer GC. Histologic analysis of the amelioration of methotrexate developmental toxicity by leucovorin in rabbits. Teratology 1987; 35:77A.

DeSesso JM. Birth defects and chemicals: Mechanisms underlying the developmental toxicity of hydroxyurea. Abstract. pp. 17-20. Proceedings, MITRE Toxicology Seminar Series: Mechanisms of Systemic Toxicity, 1985.

Farmer DR, DeSesso JM. Acetazolamide and altered vascular patterns in limb buds of rats. Anat Rec 1982; 202:53A 54A.

Farmer DR, DeSesso JM. Altered vascularity and birth defects: Microscopic analyses of limb buds from teratogen-treated rat embryos. Teratology 1982; 25:39A.

DeSesso JM. Is the inhibition of DNA synthesis by hydroxyurea the cause of rapid necrosis of embryonic cells? Anat Rec 1981; 199:68A.

DeSesso JM, Niewenhuis RJ. Demonstration of increased concanavalin a binding on limb-bud ectoderm of rabbit embryos during the critical period of teratogenesis. Teratology 1981; 23:32A.

Farmer DR, DeSesso JM. Reduction defects of the limbs: does altered ontogeny of limb-bud vascular patterns determine the pattern of malformations? Teratology 1981; 23:34A.

Lacy KK, DeSesso JM, Lary JM. Early histological changes observed in the neural folds of day 9 rat embryos subsequent to radiofrequency radiation or water bath induced hyperthermia. Teratology 1981; 23:48A-49A.

Lacy KK, DeSesso JM, Niewenhuis RJ, Lary JM. Ultrastructural changes observed subsequent to exposure of Day 9 rat embryos to radiofrequency radiation or water bath induced hyperthermia. Teratology 1981; 23:48A.

Millicovsky G, DeSesso JM, Dorgan DR, Ambrose LJ. Do epithelial-vascular-mesenchymal interactions play critical roles in normal and abnormal development? Teratology 1981; 23:52A.

DeSesso JM. Demonstration of the Embryotoxic Effects of Hydroxylamine in the New Zealand White Rabbit. Anat Rec 1980; 196:45a-46a.

Lacy KK, DeSesso JM, Lary JM. A comparison of the teratogenic effects of radiofrequency radiation and hyperthermia: Gross evaluation. Teratology 1980; 21:51A*52A.

Lacy KK, DeSesso JM, Sadler TW, Lary JM. A comparison of the teratogenic effects of radiofrequency radiation and hyperthermia: Light microscopic evaluation. Teratology 1980; 21:52A.

DeSesso JM. Amelioration of teratogenesis: Investigations into the interactions between hydroxyurea and propyl gallate. Teratology 1979; 19:24A.

DeSesso JM. Further studies on the amelioration of hydroxyurea teratogenesis by the antioxidant propyl gallate. Anat Rec 1979; 193:626-627.

DeSesso JM. Investigations into the modification of hydroxyurea teratogenesis by the antioxidant propyl gallate. Anat Rec 1979; 193:521.

Sugrue SP, DeSesso JM. Alterations of glycosaminoglycans during hydroxyurea teratogenesis: An indication of repair. Teratology 1979; 19:39A.

Sugrue SP, DeSesso JM. Hydroxyurea induced alterations of glycosaminoglycan composition of developing forelimbs of the rat. Anat Rec 1979; 193:635-636.

Millicovsky G, Clark KE, DeSesso JM. Maternal cardiovascular response to hydroxyurea: Possible implications in teratogenesis. Teratology 1979; 19:39A.

Millicovsky G, Millicovsky JL, DeSesso JM. Embryonic effects of clamping uterine vessels with and without clamping umbilical vessels. Teratology 1979; 19:39A-40A.

DeSesso JM. Evidence for the amelioration of hydroxyurea teratogenesis by the antioxidant propyl gallate. Teratology 1978; 17:36A.

DeSesso JM. Histologic and ultrastructural analysis of the actions of hydroxyurea and methotrexate on the rabbit limb bud. Anat Rec 1978; 190:381.

Millicovsky G, DeSesso JM. Electron microscopic study of embryonic microvascular damage to rabbit limb buds by hydroxyurea. Teratology 1978; 17:35A-36A.

Sugrue SP, DeSesso JM. Analysis of glycosaminoglycan composition in rat forelimbs subsequent to a teratogenic dose of hydroxyurea. Teratology 1978; 17:36A.

Millicovsky G, DeSesso JM, McCuskey RS. In vivo microscopic study of the cardiovascular responses of rabbit embryos after maternal exposure to hydroxyurea. Teratology 1978; 17:18A.

DeSesso JM. Analysis of malformations induced by concanavalin A in fetal rabbits. Anat Rec 1977; 187:565-566.

DeSesso JM. Rabbit limb deformities: A light and electron microscopic study of the action of two teratogens. p. 89. In: Excerpta Medica International Congress, Series, No. 426, 1977.

DeSesso JM. Teratogenic effects of concanavalin A in the New Zealand white rabbit. Teratology 1976; 13:14A.

DeSesso JM. A comparative light microscopic study of the teratogenic effects of three drugs on rabbit limb development. Anat Rec 1975; 181:345-346.

DeSesso JM, Jordan RL. A comparative study of the effects of three teratogens on rabbit limb development. Teratology 1975; 11:15A 16A.

DeSesso JM, Jordan RL. A comparative study of the teratogenic effects of three drugs on rabbit limb development: Preliminary findings. J SC Med Assoc 1975; 71:5.

Presentations

DeSesso, J. M. “Environmental Exposures to Trichloroethylene (TCE) Do Not Cause Congenital Heart Defects,” keynote address presented at the Air & Waste Management Vapor Intrusion Conference (Virtual), 23 September 2021.

DeSesso, J. M. “Embryological/Morphological Development of the Craniofacial Region,” presented as part of the Continuing Medical Education Course 2: Craniofacial Morphogenesis and Teratogenesis presented as part of the 61sth Annual Meeting of the Teratology Society (Virtual), 22 July 2021.

DeSesso, J. M. “Comparative Placentation in Rodents and Primates: Features that Affect Interpretation of Studies,” “presented at the Placenta Symposium hosted by the Center for Drug Evaluation and Research, Food and Drug Administration (Virtual), 11 August 2021.

DeSesso, J. M. “Normal and Abnormal Development of the Cardiovascular System,” presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by

the American College of Toxicology and the Teratology Society (Virtual), 18 May 2021.

DeSesso, J. M. “Normal and Abnormal Development of the Respiratory and Digestive Systems,” presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by the American College of Toxicology and the Teratology Society (Virtual), MD, 18 May 2021.

DeSesso, J. M. “Embryological/Morphological Development of the Male and Female Reproductive Systems,” presented as part of the Continuing Medical Education Course: I Embryology and Teratology of the Reproductive System presented at the 59th Annual Meeting of the Teratology Society, San Diego, CA, 22 June 2019.

DeSesso, J. M. “Skeletal Development in Laboratory Mammals and Humans” Presented as part of continuing education course Developmental Toxicity of the Skeletal System: Interpretation of findings in DART Studies and Implications for Risk Assessment at the 58th Society of Toxicology Meeting in Baltimore, MD, March 10, 2019.

DeSesso, J. M. “Normal and Abnormal Development of the Cardiovascular System,” presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by the American College of Toxicology and the Teratology Society, Gaithersburg, MD, 14 May 2019.

DeSesso, J. M. “Normal and Abnormal Development of the Respiratory and Digestive Systems,” presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by the American College of Toxicology and the Teratology Society, Gaithersburg, MD, 14 May,2019.

DeSesso JM. The arrogance of teratology. Presented as the Josef Warkany Lecture at the 58th Annual Meeting of the Teratology Society, Clearwater Beach, FL, June 24, 2018.

DeSesso JM. Pre- and post-natal development of the central nervous system, presented as part of the Development and teratology of the nervous system continuing education course at the 58th Annual Meeting of the Teratology Society, Clearwater, FL, 27 June 2018.

DeSesso JM. Changes in the developing gastro-intestinal tract: Impacts on exposure and susceptibilities, presented as part of the Changing Susceptibilities throughout Embryofetal Development Symposium at the 58th Annual Meeting of the Teratology Society, Clearwater, FL, 27 June 2018.

DeSesso JM. Essentials of developmental and reproductive toxicity assessment: What regulatory scientists need to know, presented as part of the NIOSH Director's Seminar Series, NIOSH Headquarters, Washington DC, 1 August 2017.

DeSesso JM. Normal and abnormal development of the cardiovascular system, presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by the American College of Toxicology and the Teratology Society at Thomas Jefferson University, Philadelphia, 10 May 2017.

DeSesso JM. Normal and abnormal development of the respiratory and digestive systems, presented as part of the Practical Reproductive and Developmental Toxicology Continuing Education Course sponsored by the American College of Toxicology and the Teratology Society at Thomas Jefferson University, Philadelphia, 10 May, 2017.

DeSesso JM. Interspecies comparison of placental structure and function with attention to transfer of immunoglobulins and biopharmaceuticals, presented as part of the "Emerging Issues of Immunotoxicology of Pharmaceuticals Symposium" at the XIV International Congress of Toxicology in Merida, Mexico, October 3, 2016.

DeSesso JM.. U.S. presenter at the Teratology Society and European Teratology Society Exchange Lecture - "GMOs, Glyphosate, and Reproductive Risks: Permissive vs. Precautionary Approaches," presented at the 44th Annual Meeting of the European Teratology Society in Dublin, Ireland, September 12, 2016.

DeSesso JM. Cross-species ontogeny of placental Fc receptors: What we think we know and what we know we don't. Presented as part of the "Cross-species FcRn Ontogeny and Impact on Placental Transfer of Monoclonal Antibodies and Other Fc-containing Biotherapeutics Symposium," presented at the 56th Annual Meeting of the Teratology Society in San Antonio, June 27, 2015.

DeSesso JM. Embryonic period, presented as part of the continuing education course "Embryology in Modern Times," presented at the 56th Annual Meeting of the Teratology Society in San Antonio, June 25, 2015.

DeSesso JM. Heart development, presented as part of the continuing education course "Development and Teratology of the Heart," presented at the 56th Annual Meeting of the Teratology Society in San Antonio, June 25, 2015.

DeSesso JM. Do toxicological and epidemiological data support concerns about pregnant women being exposed to TCE via inhalation. Presented as part of the roundtable "Trichloroethylene Exposure and Development of Fetal Cardiac Malformations: What Do the Data Tell Us about Inhalation Exposures Resulting from Vapor Intrusion and Potential Risks to Pregnant Women?" at the 55th Society of Toxicology Meeting in New Orleans, LA, March 14, 2016.

DeSesso, JM. Comparative embryological development, gestational landmarks, and their influence on test designs. Presented as part of the "Embryology and Developmental Toxicity Testing" continuing education course at the 55th Society of Toxicology Meeting in New Orleans, LA, March 13, 2016.

DeSesso JM, Packard DS. Anatomical inferences regarding gestational stage and location of teratogenic events in malformed human limbs. Presented as part of the Wiley-Blackwell Symposium "Are Human Skeletal Malformations the Result of Embryonic Arterial Dysgenesis?" at the 55th Teratology Society Meeting in Montreal, ON, June 29, 2015.

DeSesso JM. Of embryos and tumors: The relevance of teratology. Presented as the Narsingh Agnish Fellowship Lecture at the 54th Teratology Society Meeting in Bellevue, WA, June 28, 2014.

DeSesso JM. Value of studies in juvenile animals for human risk assessment. Presented as part of the "Addressing Safety in the Immature Organism: about Children's Safety and Risk Assessment Workshop" at the EUROTOX 2013 Congress in Interlaken, Switzerland, September 3, 2013.

DeSesso JM Timeline of important events in embryo-fetal development. Presented as part of the "Principles of Teratology" Education Course at the 53rd Teratology Society Meeting in Tucson, AZ, June 22, 2013.

DeSesso JM Physiology of the placenta: Differences between species and potential impact to regulatory testing. Presented as part of the "Placental Transfer of Monoclonal Antibodies Workshop" at the 53rd Teratology Society Meeting in Baltimore, June 26, 2012.

DeSesso JM. Implantation, placentation, and early embryonic development. Basic Embryology and Developmental Toxicity Testing Continuing Education Course AM03 for the Society of Toxicology Annual Meeting in San Francisco, CA, March 11, 2012.

DeSesso JM. Overview of physiological changes during pregnancy and lactation: Prenatal and postnatal exposure issues. Pregnancy in the Workplace: Managing Occupational Safety for a Unique Subpopulation Informational Session presented at the Society of Toxicology Annual Meeting in San Francisco, CA, March 14, 2012.

DeSesso JM. Physiology of the placenta: Differences between species and potential impact to regulatory testing. Placental Transfer of Monoclonal Antibodies Workshop at the Teratology Society Meeting, Baltimore, MD, June 26, 2012.

DeSesso JM. Comparative embryology and placentation of the rat, mouse, and rabbit: Impact on developmental toxicity. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 4, 2011.

DeSesso JM. Female reproductive anatomy and physiology. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 4, 2011.

DeSesso JM. Developmental and reproductive toxicity risk assessment. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 5, 2011.

DeSesso JM. Developmental and reproductive toxicology risk assessment. Presented at the Developmental and Reproductive Toxicology (Basic Course) Continuing Education Course sponsored by the American College of Toxicology, Baltimore, MD, November 7, 2010.

DeSesso JM. Development of the cardiovascular system. Presented at the Reproductive and Developmental Toxicology for Industrial and Regulatory Scientists Course sponsored by the Teratology Society, Falls Church, VA, October 26, 2010.

DeSesso JM. Development of the respiratory and gastrointestinal systems. Presented at the Reproductive and Developmental Toxicology for Industrial and Regulatory Scientists Course sponsored by the Teratology Society, Falls Church, VA, October 26, 2010.

DeSesso JM. Comparative embryology and placentation of the rat, mouse, and rabbit: Impact on developmental toxicity. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, September 21, 2010.

DeSesso JM. Female reproductive anatomy and physiology. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, September 21, 2010.

DeSesso JM. Developmental and reproductive toxicity risk assessment. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, September 22, 2010.

DeSesso JM. Comparative embryology and interspecies concordance. Presented at the HESI Developmental Toxicology - New Directions Workshop, Washington, DC, April 29, 2009.

DeSesso JM. Early mammalian embryogenesis and placentation: Relevance for developmental toxicity testing. Presented at the MARTA Fall Meeting, The Franklin Institute, Philadelphia, PA October 23, 2009.

DeSesso JM. Pre- and perinatal cardiac development. Continuing education course, Organization of Teratology Information Services, Annual of Meeting of the Teratology Society, Monterey, CA, June 28, 2008.

DeSesso JM, Lavin Williams A. TCE assessments: Status and prognosis. Air Force Center for Engineering and the Environment Technology Transfer Workshop, San Antonio, TX, March 25, 2008.

DeSesso JM. Developmental and reproductive toxicity risk assessment. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, March 7, 2008.

DeSesso JM. Comparative embryology and placentation of the rat, mouse, and rabbit: Impact on developmental toxicity. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, March 6, 2008.

DeSesso JM. Female reproductive anatomy and physiology. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, March 6, 2008.

DeSesso JM. Developmental and reproductive toxicity risk assessment. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 23, 2007.

DeSesso JM. Female reproductive anatomy and physiology. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 22, 2007.

DeSesso JM. Comparative embryology and placentation of the rat, mouse, and rabbit: Impact on developmental toxicity. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, October 22, 2007.

DeSesso JM. Hemoglobin-based oxygen carriers, yolk sac poisoning, and developmental toxicity: A mode of action that does not exist in humans. Keynote presentation, Fall Meeting of the Association of Government Toxicologists, Bethesda, MD, October 17, 2007.

Benz RD, Collins TFX, DeSesso JM, Foster PMD, Gu Y, Hew KW, Matthews EJ, Meek ME, Mirkes PE, Richard AM, Seed J, Shackelford M, Stump DG, Willhite CC, Wise LD, Yang C, Van Landingham C, Julien E. A robust developmental toxicity database: Live prototype demonstration. 47th Annual Meeting of the Teratology Society, Pittsburgh, PA, June 25-28, 2007.

DeSesso JM. Perinatal and juvenile safety evaluations: Protocols, science and trends. Northern California Society of Toxicology Meeting, Menlo Park, CA, June 7, 2007.

Benz RD, Collins TFX, DeSesso JM, Foster PMD, Gu Y, Hew KW, Matthews E, Meek ME, Mirkes PE, Richard AM, Seed J, Shackelford M, Stump DG, Willhite CC, Wise LD, Yang C, Van Landingham C, Julien E. Towards refined use of toxicity data in statistically based SAR models for developmental toxicity. International Science Forum on Computational Toxicology, Research Triangle Park, NC, May 21-23, 2007.DeSesso JM. Why don't we consider hormesis in risk assessment? Soapbox Oration, 46th Annual Meeting of the Society of Toxicology, Charlotte, NC, March 28, 2007.

DeSesso JM, Watson RE, Keen CL, Hazelden KP, Haws LC, Li AA. Integration of developmental toxicity data into risk assessment: A case study of dimethoate. 46th Annual Meeting of the Society of Toxicology, Charlotte, NC, March 25-29, 2007.

DeSesso JM. TCE: Reactionary regulatory representation versus realistic reckoning of relevant exposures rules out reasonable clean up standards. SERDP-ESTCP Partners in Environmental Technology Technical Symposium, Washington, DC, November 29, 2006.

DeSesso JM. Developmental and reproductive toxicity risk assessment. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, November 17, 2006.

DeSesso JM. Comparative embryology and placentation of the rat, mouse, and rabbit: Impact on developmental toxicity. Fundamentals of Developmental and Reproductive Toxicology Continuing Education Seminar for Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, November 16, 2006.

DeSesso JM. Development of the heart. Teratology Society Continuing Education Course Vertebrate Embryology, Tucson, AZ, June 25, 2006.

Botazzi ME, Zhan B, Goud GN, Miles A, DeSesso JM, Cecere F, Hotez P. The Institute for Translational Research and Development presented at the Third Annual NIAID Regional Centers of Excellence for Biodefense and Emerging Infectious Diseases Research Meeting, New York City, NY, March 26-28, 2006.

DeSesso JM. What is the purpose of risk assessment? Consideration of the past and extrapolation to the future. Evolution of Approaches in Risk Assessment, Annual Meeting of the American College of Toxicology, Williamsburg, VA, November 8, 2005.

DeSesso JM. Design and evaluation of developmental toxicology studies. Henry Stewart Conference Current Thinking, Problems and Solutions in Reproductive, Developmental, and Endocrine Toxicity Studies, Washington, DC, May 12-13, 2005.

DeSesso JM, Watson RE, Haws LC. Dimethoate: Maternal influence as a contributor to offspring wellbeing and a driver in risk assessment. EPA Science Advisory Panel on Dimethoate, Arlington, VA, November 30, 2004.

DeSesso JM. Physiologic age. National Institute of Child Health and Human Development Expert Panel Workshop Extrapolation of Non-clinical Models to Pediatric Clinical Studies: Setting the Research Agenda, Rockville, MD, October 28, 2004.

DeSesso JM. Introduction to organogenesis: Development of thought, science, and embryos. Joint Northern and Southern California Society of Toxicology Symposium, Reproductive & Developmental Toxicology: Pharmaceutical, Environmental, and Legal Considerations, San Diego, CA, September 30, 2004.

DeSesso JM, Watson RE, Haws LC. Maternal influence as a contributor to pre- and postnatal offspring wellbeing. EPA Science Advisory Panel on Dimethoate, Arlington, VA, July 29, 2004.

DeSesso JM. Design and evaluation of developmental toxicology studies. Henry Stewart Conference Current Thinking, Problems and Solutions in Reproductive, Developmental, and Endocrine Toxicity Studies, Washington, DC, June 16-17, 2004.

DeSesso JM. Animal data for risk assessment: The Good, The Bad, and The Irrelevant — and How to Tell them Apart or What to do When the Results of Relevant Animal Studies Aren't Relevant. Midwest Teratology Association Annual Meeting, Ann Arbor, MI, April 29, 2004.

DeSesso JM, Foster PMD, Holson JF. Applied reproductive toxicology. Pest Management Regulatory Agency, Health Canada, Ottawa, Ontario, October 6-7, 2003.

DeSesso JM. Maternal toxicity: Understanding the influence of the pregnant mammal on her developing offspring. Continuing Education Course of the European Teratology Society Meeting, Elsinore, Denmark, September 7, 2003.

DeSesso JM. Interspecies comparison of mechanisms of neurulation: Implications for interpretation of neural tube defects in developmental studies. Teratology Society Continuation Education Course Integration of Human and Animal Data in Understanding Mechanisms and Risk for Human Birth Defects,

Philadelphia, PA, June 21-22, 2003.

DeSesso JM. Observations and evaluations of data in developmental toxicity studies. Henry Stewart Conference Latest Thinking on Reproductive, Developmental, and Endocrine Toxicity Studies, Washington, DC, May 21-22, 2003.

DeSesso JM. Overview of TCE occurrence and regulatory trends. Air Force Center for Environmental Excellence Cleanup Technology Workshop, San Antonio, TX, February 26, 2003.

DeSesso JM. Developing effective post-natal safety assessment. Pediatric Drug Development: Addressing Today's Challenges in Toxicology and Pharmacology, Washington, DC, February 24, 2003

DeSesso JM. Alterations in anatomical structure: Malformations, variations, or normal diversity. Fall Meeting of the Mid Atlantic Reproduction and Teratology Association, King of Prussia, PA, November 14, 2002.

DeSesso JM. Preclinical trials - Pharmacology and Toxicology. Henry Stewart Conference: An Introduction to the Pharmaceutical Industry Today, Washington, DC, July 10, 2002.

DeSesso JM. Overview of pre- and post-natal nervous system development. Teratology Society Continuing Education Course Mechanisms, Biomarker, Data Interpretation: An Integrative Risk Assessment Using Developmental Neurotoxicology as a Model, Scottsdale, AZ, June 22, 2002.

Lavin AL, Jacobson CF, DeSesso JM. Data for trichloroethylene-induced kidney tumors in rats suggest an epigenetic mechanism of action. Non-Linear Dose-Response Relationships in Biology, Toxicology and Medicine Conference, University of Massachusetts, Amherst, MA, June 11, 2002.

DeSesso JM. Variations and malformations in developmental toxicity studies. p Henry Stewart Conference: Meeting FDA, EPA, OECD and ICH Requirements for Reproductive Toxicology Data Submissions, Washington, DC, May 9-10, 2002.

DeSesso JM, Lavin AL. Background and status of the trichloroethylene (TCE) controversy. Keynote Address, Air Force Center for Environmental Excellence Cleanup Technology Workshop, San Antonio, TX, March 5, 2002.

DeSesso JM. Anatomical and physiological bases for virility, intimacy, and fertility in the male mammal. Midwest Teratology Society Meeting, Ashland, OH, May 18, 2001.

DeSesso JM. Variations and malformations in developmental toxicity studies. Henry Stewart Conference: Understanding the Regulators' Approach to Reproductive Toxicology Data, Washington, DC, April 26-27, 2001.

Lavin AL, DeSesso JM. Absence of potential carcinogenicity associated with hydrogen peroxide exposures. Annual Meeting of the Society for Risk Analysis, Arlington, VA, December 3□6, 2000.

Lavin AL, Jacobson CF DeSesso JM. An assessment of the carcinogenic potential of trichloroethylene exposure in humans. Annual Meeting of the Society for Risk Analysis, Arlington, VA, December 3-6, 2000.

DeSesso JM. Anatomical and developmental aspects of the maternal-embryo/fetal interface. Toxicokinetics in Teratogenesis Workshop at the Teratology Society Annual Meeting, West Palm Beach, FL, June 26, 2000.

DeSesso JM. Variations and malformations in developmental toxicity studies. Henry Stewart Conference: Understanding the Regulators' Approach to Reproductive Toxicology Data, Washington, DC, April 18-19, 2000.

DeSesso JM. What role might molecular toxicology play in the risk assessment of developmental toxicity? Spring meeting of the Mid Atlantic Reproductive and Teratology Association, Collegeville, PA, April 13, 2000.

Lavin AL, DeSesso JM. Relevance of changes in the field of toxicology to setting clean-up goals. 2nd Theis Groundwater Conference, Amelia Island, FL, November 13, 1999.

DeSesso JM. The influence on postnatal safety assessment of differing schedules of organ system maturation in animals and man: The Cardiopulmonary System. Symposium, Similarities and Differences Between Juveniles and Adults: The Basis for Toxicological Evaluation, Mid-Atlantic Society of Toxicology, East Windsor, NJ, October 29, 1999.

DeSesso JM. The status of postnatal safety data assessment in experimental animals and man: The cardiopulmonary system. Keynote Presentation, Fall Meeting of the Association of Government Toxicologists, Bethesda, MD, September 30, 1999.

DeSesso JM. Postnatal development of the cardiopulmonary system. Teratology Society Continuing Education Course, Organ System Maturation and Functional Postnatal Development: Aspects to Consider for Pediatric Safety Assessment. Keystone, CO, June 29-30, 1999.

Holson JF, DeSesso JM. Postnatal development in experimental animals and man: Implications for the assessment of health safety data. Winter Meeting of the Toxicology Forum, Washington, DC, February 3, 1999.

Holson JF, DeSesso JM, Scialli AR, Farr CF. Inorganic arsenic and prenatal development: A comprehensive evaluation for human risk assessment. pp. 183-190. Proceedings, Third International Conference on Arsenic Exposure and Health Effects, Chappell WR (ed), Elsevier Science, 1999.

Holson JF, DeSesso JM. Application of appropriate exposure routes and dose to human risk assessment: A case study of inorganic arsenic and prenatal development. Symposium, American College of Toxicology Annual Meeting, Orlando, FL, November 11, 1998.

Holson JF, DeSesso JM, Scialli AR, Farr CH. Inorganic arsenic and prenatal development: A comprehensive evaluation for human risk assessment. Third International Conference on Health Effects of Environmental Arsenic, Society of Environmental Geochemistry and Health, San Diego, CA, July 12-15, 1998.

DeSesso JM. Environmental hazard or medicine? The paradox of trichloroethylene. Plenary Session at First International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 18, 1998.

DeSesso JM. Use of physiologically based pharmacokinetic (PBPK) models in developmental and reproductive toxicology studies: An overview. Introduction, American College of Toxicology Annual Meeting, McLean, VA, November 12, 1997.

DeSesso JM (expert panel member). Relevance of preclinical data for evaluation of human reproductive risk. PhRMA/FDA Workshop: The Relevance of Preclinical Data for Evaluation of Human Reproductive Risk, Rockville, MD, October 10, 1997.

DeSesso JM. Interpretation and extrapolation of preclinical data as it relates to the assessment of human reproductive risk. PhRMA/FDA Workshop: Relevance of Preclinical Data for Evaluation of Human Reproductive Risk, Rockville, MD, October 9, 1997.

DeSesso JM. Role of sulfates in particulate matter toxicity. Particulate Matter - Science and Regulatory Perspectives Symposium, Association of Government Toxicologists, National Capital Area Chapter of the

Society of Toxicology, and the Inhalation Specialty section of the Society of Toxicology, January 23, 1997.

DeSesso JM, Hsia SM, Mavis RD. Safety of hydrogen peroxide in oral care products for daily use. Food and Drug Administration Dental Products Panel, Plaque Subcommittee, June 7, 1996.

DeSesso JM. Teratogenic mechanisms of the lectin, concanavalin A: Controversy over the facts. San Diego Toxicology Association, May 2, 1994.

DeSesso JM, Steinberg AD. The risk: Benefit paradox presented by trichloroethylene and chloral hydrate. Conference on Temporal Aspects in Risk Assessment for Noncancer Endpoints, Dayton, OH, April 18-20, 1994.

DeSesso JM. A common-sense approach to ecological risk: Assessment. 20th Environmental Symposium and Exhibition, San Antonio, TX, March 14-17, 1994.

DeSesso JM. Understanding and defining ecological risk: A common sense approach. Conference on Ecological Risk Assessment, San Diego, CA, October 9, 1993.

DeSesso JM. Comparative anatomy and physiology of rat, monkey, and human nasal passages. conference on nasal toxicity and dosimetry of inhaled xenobiotics: Implications for human health. Durham, NC, September 20-22, 1993.

DeSesso JM. The role of hydroxyl free radicals in early embryonic cell death induced by hydroxyurea. Third Annual Meeting of the West Coast Teratology Society, La Jolla, CA, August 19, 1993.

DeSesso JM. Cardiovascular development. Embryology for Teratologists Refresher Course, Teratology Society Meeting, Tucson, AZ, June 26 27, 1993.

DeSesso JM, Steinberg AD. Environmental hazard or medicine? The paradox presented by trichloroethylene and chloral hydrate. International Congress on the Health Effects of Hazardous Waste, Atlanta, GA, May 3-6, 1993

DeSesso JM. Towards an understanding and definition of acceptable ecological risk. Third Symposium on Environmental Toxicology and Risk Assessment, American Society of Testing Materials, Atlanta, GA, April 27, 1993.

DeSesso JM. The relevance to humans of animal models for inhalation studies of cancer in the nose and upper airways. Conference on the Risk Assessment Paradigm after Ten Years: Policy and Practice Then, Now and in the Future, Dayton, OH, April 5-8, 1993.

DeSesso JM. The complexities of limb malformations: Multiple mechanisms and pathways contributing to teratogenesis. Presidential Symposium, Dynamics of Abnormal Development, Annual Spring Forum in Developmental Biology (105th Annual Meeting of the American Association of Anatomists), New York City, NY, March 11, 1992.

DeSesso JM. Guidance for performing ecological risk assessments at Air Force installations. Environmental Risk Assessment Session, 1991 Annual Meeting of the Society for Risk Analysis, December 9, 1991.

DeSesso JM. Ocular exposure may provide a direct route to the brain. Annual Meeting of the Society of Comparative Ophthalmology, Newark, NJ, September 13, 1991.

DeSesso JM. Organizational control in the embryo: Potential targets for developmental toxicants. First Annual Wiley-Liss Keynote Symposium, Thirty-first Annual Meeting of the Teratology Society, Boca Raton, FL, June 24, 2001.

DeSesso JM, Mavis RD. A comparison of dimensions and surface areas of the absorptive regions in the gastrointestinal tracts from rats and humans. Principles of Route-to-Route Extrapolation for Risk Assessment Workshop, Hilton Head, SC, March 19-21, 1990.

DeSesso JM. Mechanisms and amelioration of methotrexate-induced developmental toxicity. MITRE Toxicology Seminar Series, September 8, 1988.

DeSesso JM, Goeringer GC. The nature of the protective interaction between the teratogen, hydroxyurea, and the antioxidant propyl gallate. Proceedings, 18th Conference on Toxicology, AAMRL-TR-90-032:393, Armstrong Aerospace Medical Research Laboratories, Human Systems Division, Air Force Systems Command, Wright-Patterson Air Force Base, November 1-3, 1988.

DeSesso JM. The relevance of bladder instillation studies to the assessment of human carcinogenic risk. pp. 141-155. Proceedings, Toxicology Forum 1987 Annual Winter Meeting, 1987.

DeSesso JM. Maternal factors in developmental toxicity. EPA Consensus Workshop on the Evaluation of Maternal and Developmental Toxicity, Rockville, MD, May 12, 1986.

DeSesso JM. Teratogenic mechanisms of the lectin concanavalin A. 8th CIIT Conference on Toxicology, Raleigh, NC, 1986.

DeSesso JM. Embryology and teratogenesis. Embryology Refresher Course, Annual Meetings of the American College of Veterinary Pathologists and the American Society for Veterinary Clinical Pathology, Denver, CO, December 11, 1985.

DeSesso JM. Embryology and teratology. pp. 96-111. Proceedings, 36th Annual Meeting of the American College of Veterinary Pathologists, 1985.

DeSesso JM. Placental structure, function, and role in developmental toxicity. pp. 112-119. Proceedings, 36th Annual Meeting of the College of Veterinary Pathologists, 1985.

DeSesso JM. Modifiers of teratogenesis. Principles of Teratology Refresher Course, Teratology Society Meeting, Boca Raton, FL, June 2 3, 1984.

DeSesso JM. Caffeine and birth defects: The continuing controversy. Caffeine Biological Effects Symposium, Institute of Food Technologists Meeting, New Orleans, LA, June 20, 1983.

DeSesso JM. Teratogenesis. Workshop on Food Toxicology, Association of Official Analytical Chemists Meeting, New Orleans, LA, April 15, 1982.

Millicovsky G, DeSesso JM. Epithelial-vascular-mesenchymal relationship during primary palate morphogenesis of mice. International Association for Dental Research, New Orleans, LA, March 18-21, 1982.

Farmer DR, DeSesso JM. Altered limb-bud vasculature and the patterns of reduction limb defects. Meeting of the Graduate Student Research Forum, University of Cincinnati College of Medicine, April 29, 1981.

Lacy KK, DeSesso JM. Role of hyperthermia in radiofrequency teratogenesis. Meeting of the Graduate Student Research Forum, University of Cincinnati College of Medicine, April 29, 1981.

Invited Seminars

DeSesso JM. Gravid and nongravid female reproductive anatomy and physiology. Presented at Food and Drug Administration Center for Evaluation and Research Staff College, White Oak Campus, Silver Spring,

MD, February 17, 2011.

DeSesso JM. Anatomical and physiological bases for virility, intimacy, and fertility in male mammals. Presented at Food and Drug Administration Center for Evaluation and Research Staff College, White Oak Campus, Silver Spring, MD, February 17, 2011.

DeSesso JM. Smoking and pregnancy. Presented at the Seinfeld Medical Interest Group, Georgetown University Medical School, Washington, DC, May 29, 2009.

DeSesso JM. Reproductive decision making. Forum of the Georgetown Students for Choice, Georgetown University Medical School, Washington, DC, April 9, 2008.

DeSesso JM. Anatomical and physiological bases for virility, intimacy, and fertility in male mammals. Reproductive Biology Course, U.S. Food and Drug Administration, Center for Drug Evaluation and Research, Silver Spring MD, April 3, 2008.

DeSesso JM. Gravid and non-gravid female reproductive anatomy and physiology. Reproductive Biology Course, U.S. Food and Drug Administration, Center for Drug Evaluation and Research, Silver Spring MD, April 3, 2008.

DeSesso JM. Comparative placentation: Importance in risk assessment. Guildford Medical School, University of Surrey, Guildford, UK, October 1, 2007.

DeSesso JM. Pre- to post-natal development of the cardiovascular system. Guildford Medical School, University of Surrey, Guildford, UK, October 1, 2007.

DeSesso JM. Body snatching: Then and now. Georgetown University Medical Center, Washington, DC, November 1, 2006.

DeSesso JM. Trichloroethylene (TCE): Health effects and regulatory trends. Overarching Integrated Project Team, Camp Lejeune, Headquarters Marine Corps, Arlington, VA, July 26, 2006.

DeSesso JM. Interpreting animal safety data: Biology as the context for relevance. U.S. Army Center for Health Promotion and Preventive Medicine, Directorate of Toxicology, Aberdeen Proving Ground, MD, June 21, 2006.

DeSesso JM. The biology underlying stem cells and cloning. Stem Cell Forum, Georgetown University Medical Center, Washington, DC, May 17, 2006.

DeSesso JM. Chemical and life sciences: A perspective on Mitretek's value. Technology Tuesday presentation at Mitretek Systems, Falls Church, VA, March 7, 2006.

DeSesso JM. Stem cell research and cloning: A scientist's perspective. Georgetown University Medical Center, Washington, DC, September 6, 2005.

DeSesso JM. Interpreting pre-clinical safety data: Biology as the context for assessing relevance. Division of Applied Pharmacology Research, Office of Testing and Research, Center for Drug Evaluation Research, Food and Drug Administration, White Oak, MD, May 10, 2005.

DeSesso JM, Jacobson CF, Watson RE. Trichloroethylene and cardiac malformations. National Center for Environmental Assessment, U.S. Environmental Protection Agency, Washington, DC, July 20, 2004.

DeSesso JM. Saving a blood substitute that might save your life: A scientific detective story. Technology Tuesday presentation at Mitretek Systems, Falls Church, VA, September 22, 2003.

DeSesso JM. Maternal toxicity: Understanding the influence of the pregnant mammal on her developing

offspring. International Toxicology Meeting of Sanofi-Synthelabo, Fontenailles, France, January 28, 2003.

DeSesso JM. Biological common sense and logic in assessment of health risks: A case study illustrating the approach used at Mitretek Systems. BASF, August 24, 2001.

DeSesso JM. Can substances that cause birth defects be used safely in mouth wash? A mechanistic approach to safety assessment. Technology Tuesday presentation at Mitretek Systems, McLean, VA, June 12, 2001.

DeSesso JM. The impact on safety assessment of differential schedules of organ system maturation in humans and animals. FDA Center for Drug Evaluation Research Symposium, Animal Models for Pediatric Studies, Rockville, MD, November 17, 1999.

DeSesso JM. Principles and problems in developmental and reproductive toxicology: Prologue to discovery. Toxicology Round Table of the Virginia Maryland Regional College of Veterinary Medicine, Blacksburg, VA, September 23, 1997.

DeSesso JM. Hydroxyurea: A case study of the search for teratogenic mechanisms. Student Invited Lecture at Children's Hospital Research Foundation, University of Cincinnati College of Medicine, Cincinnati, OH, April 30, 1997.

DeSesso JM. Methotrexate-induced developmental toxicity: The role of one carbon metabolism. Seminar Series, Center for Drug Evaluation and Research, Food and Drug Administration, Rockville, MD, March 5, 1997.

DeSesso JM. Abnormal development of the heart. Annual Meeting of the Midwest Teratology Society, May 30, 1996.

Holson JF, DeSesso JM. Developmental and reproductive toxicology study interpretation. FDA Center for Drug Evaluation and Research course on Special Topics in Reproduction Toxicology, December 7, 1995; April 29, 1996; November 7, 1996.

DeSesso JM, Holson JF. Specialized terminology, the analysis of results, and report preparation for developmental and reproductive toxicology tests. FDA Center for Drug Evaluation and Research course on Special Topics in Reproduction Toxicology, November 16, 1995; April 1, 1996; October 24, 1996.

DeSesso JM, Holson JF. General principles underlying the science and testing procedures for developmental and reproductive toxicology. FDA Center for Drug Evaluation and Research course on Special Topics in Reproduction Toxicology, November 9, 1995; March 25, 1996; October 17, 1996.

Holson JF, DeSesso JM. Animal studies and the prediction of human reproductive risk: Case studies of success and failure. FDA Center for Drug Evaluation and Research course on Special Topics in Reproduction Toxicology, November 2, 1995; April 15, 1996; October 10, 1996.

DeSesso JM. New perspectives on the teratogenic mechanism of action of thalidomide. Finch University of the Health Sciences/Chicago Medical School, North Chicago, IL, September 27, 1995.

DeSesso JM. Embryology: Normal and pathogenic. FDA Center for Drug Evaluation and Research course on Physiology and Toxicology of Reproduction, April 13, 1995.

DeSesso JM. Amelioration of antifolate-induced developmental toxicity. Stillman College, Tuscaloosa, AL, April 6, 1995.

DeSesso JM. Early cell death and hydroxyl free radicals: A teratogenic mechanism underlying hydroxylamine-bearing compounds. Graduate School of Public Health, College of Health and Human Services, San Diego State University, May 2, 1994.

DeSesso JM. The role of free radicals in early embryonic cell death and birth defects. Department of Cell Biology and Anatomy, University of Health Sciences/Chicago Medical School, North Chicago, IL, September 29, 1993.

DeSesso JM. Mechanistic teratology and reduction in human suffering: prevention, amelioration, and assessment of risks of birth defects. Graduate School of Public Health, College of Health and Human Services, San Diego State University, May 10, 1993.

DeSesso JM. Electromagnetic fields and human health: Should we worry? Technical Advisory Committee of the Board of Directors, Boston Edison, Boston, MA, April 8, 1993.

DeSesso JM. Abnormal development: Considerations for interpreting developmental toxicology studies. Graduate School of Public Health, University of Maryland Baltimore Campus, March 10, 1993.

DeSesso JM. Understanding and preventing antifolate-induced birth defects. Department of Cell Biology and Anatomy, University of Health Sciences/Chicago Medical School, North Chicago, IL, September 30, 1992.

DeSesso JM. Mechanistic teratology and reduction in human suffering: Prevention, amelioration, and assessment of risks of birth defects. Graduate School of Public Health, College of Health and Human Services, San Diego State University, May 4, 1992.

DeSesso JM. Cellular events in abnormal development. American Industrial Health Council Subcommittees on Reproductive and Developmental Effects, Mutagenicity, and Neurotoxicity, Washington, DC, April 29, 1992.

DeSesso JM. Developmental toxicity of antifolates: Mechanisms and amelioration. Reproductive Toxicology Group Seminar of Ciba-Geigy Pharmaceuticals, Summit, NJ, November 8, 1991.

DeSesso JM. Embryology of the human nervous system. First Year Medical Class at the Chicago Medical School/University of Health Sciences, North Chicago, IL, February 28, 1991.

DeSesso JM. Mechanisms and amelioration of antifolate induced developmental toxicity. Human Health Assessment Group Seminar, Office of Health and Environmental Assessment, Office of Research and Development, U.S. Environmental Protection Agency, Washington, DC, February 27, 1991.

DeSesso JM. Multiple mechanisms of developmental toxicity for a single teratogen: The case of hydroxyurea. Developmental Toxicology Division, Health Effects Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Research Triangle, NC, May 15, 1990.

DeSesso JM. A morphological and physiological approach to understanding the dermal absorption of chemicals. Health and Environmental Review Division, Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, DC, April 1985.

DeSesso JM. Double envelopment and teratogenic attack: The case for multiple sites and mechanisms of action for a single teratogen. Temple University School of Medicine, April 3, 1981.

DeSesso JM. Hydroxyurea: Multiple sites and mechanisms of embryotoxicity for a single teratogen. The MITRE Corporation McLean, VA, March 11, 1981.

DeSesso JM. Anomalies and free radicals: Some perspectives on teratogenic mechanisms. University of South Carolina Medical School, Columbia, SC, June 3, 1980.

Commentary Before Public Forums

DeSesso JM. Selected Seveso Cohort Papers are Inappropriate for Derivation of an RfD. Comments before the Environmental Protection Agency's Scientific Advisory Board: TCDD Review, Washington, DC, July 13, 2010.

Kimmel CA, Kimmel GL, DeSesso JM. TCE and Cardiac Defects. Comments before the Environmental Protection Agency's Scientific Advisory Board: Trichloroethylene (TCE) Review, Washington, DC, May 10, 2010.

Campbell CE, DeSesso JM. Comments before the External Peer Review Panel of the USEPA National Center for Environmental Assessment's Draft IRIS Toxicological Review of Decabromodiphenyl Ether (BDE-209) (CASRN 1163-19-5), Washington, DC, February 22, 2007.

DeSesso JM. Commentary before the Environmental Protection Agency's Scientific Advisory Board: Arsenic Panel Regarding the Developmental Toxicity of Dimethylarsinic Acid (DMAV), Washington, DC, September 12, 2005.

DeSesso JM. Commentary before the Environmental Protection Agency's Scientific Advisory Board: Arsenic Panel Regarding the Developmental Toxicity of Dimethylarsinic Acid (DMAV), Washington, DC, September 12, 2005.

DeSesso JM. Commentary Before the Environmental Protection Agency's Scientific Advisory Panel of the Office of Pesticides, Regarding Assessment of Potential Pre- and Postnatal Developmental Toxicity of Dimethoate, Arlington, VA, July 29, 2004.

DeSesso JM. Commentary before the Joint Standing Committee on Natural Resources of the Maine Legislature regarding Scientific Evidence Related to LD 1790 'An Act to Reduce Contamination of Breast Milk and the Environment from Brominated Chemicals in Consumer Products, Augusta, ME, February 17, 2004.

DeSesso JM. Commentary Before the Environmental Protection Agency's Scientific Advisory Board, Environmental Health Committee Regarding Assessment of Potential Prenatal Developmental Toxicity of Trichloroethylene (TCE) as Put Forth in the Draft Trichloroethylene Health Risk Assessment: Synthesis and Characterization, Washington, D.C., June 18, 2002.

DeSesso JM. Commentary Before the Subcommittee on Veterans Administration, Housing and Urban Development, and Independent Agencies of the U. S. House of Representatives Committee on Appropriations Regarding FY 2003 Funding for the Environmental Protection Agency. U. S. Capitol, Washington, D.C., April 16, 2002.

DeSesso JM. Commentary before the Public Hearing: Content and Format of Labeling for Human Prescription Drugs. Center for Drug Evaluation and Research, Food and Drug Administration, Rockville, MD, September 12, 1997.

Editorships & Editorial Review Boards

Reproductive Toxicology: 2006 - 2011; 2018 - present

International Journal of Environmental Research and Public Health: 2019-2021

Peer Reviews

Expert Panels

Center for the Evaluation of Risks to Human Reproduction, 2002

- National Toxicology Program, Expert Panel on the Reproductive and Developmental Toxicity of Ethylene Glycol and Propylene Glycol (panel member)

TERA/USEPA Voluntary Children's Chemical Exposure Program Peer, 2005-present

- Consultation Group
- Core Panel member
- Xylenes, Cincinnati, OH, December 13-14, 2005
- Benzene, Cincinnati, OH, June 15-16, 2006
- Toluene, Cincinnati, OH, November 7-8, 2006
- Ethyl Benzene, Cincinnati, OH, February 22-23, 2007
- p-Dioxane, Cincinnati, OH, May 1-2, 2007

Study Section Member

National Institute of Allergies and Infectious Diseases

- Nonclinical Services for Development of Interventional Agents for Infectious Diseases

National Institute of Occupational Safety & Health

- Safety and Occupational Health Study Section, 1981-1984

National Institutes of Health

- Pharmacology Study Section (ad hoc), 1990
- Embryology and Cell Senescence, (Human Embryology and Development II) Study Section (ad hoc), 1995

National Institute of Alcoholism & Alcohol Abuse

- Neuroscience & Behavior Study Section (ad hoc), 1984-1985

National Institute of Environmental Health Sciences

- Molecular and Cellular Mechanisms of Normal and Abnormal Development Special Study Section, 1994

Environmental Protection Agency

- Cooperative Agreements, 1981-1983; 1992, 2001
- Grant Program Review Panel (STAR Awards), 1995

Special Emphasis Panel Member

National Institute of Environmental Health Sciences, Reviewer of proposals for "Scientific and Logistics Support for the Center for the Evaluation of Risks to Human Reproduction (CERHR)," 2008

Peer Reviewer of Guidance Documents and Nationally Distributed Reports

Environmental Protection Agency, Office of Research and Development, Reproductive Effects Assessment Group, 1987

- Peer Reviewer of the Proposed Female Reproductive Toxicity Assessment Guidelines prior to their publication in the Federal Register

National Research Council, Board on Environmental Studies and Toxicology, 2000

- Committee on Developmental Toxicology, External Reviewer of Scientific Frontiers in Developmental Toxicology and Risk Assessment

Environmental Protection Agency

- Peer Reviewer of the Proposed Subchronic Oral Reference Dose (RfD) for Inorganic Arsenic, 2000
- Peer Reviewer of "Health Effects Support Document for1,1,2,2-Tetrachloroethane," 2005
- Peer Reviewer of "Drinking Water Health Advisory for Perchlorate" 2008

National Research Council, Board on Environmental Studies and Toxicology, 2008

- Committee on Health Risks of Phthalates, External Reviewer of Cumulative Risk Assessment: Phthalates, a Case Study