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Engineering & Scientific Consulting

## John DeSesso, Ph.D., Fellow ATS

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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 is an adjunct professor of Biochemistry and Cellular & Molecular Biology at Georgetown University School of Medicine where he has taught embryology and anatomy for over 30 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 100 papers and chapters and has presented at over 200 conferences and symposia. Two of his papers (in 2000 and 2009) have been recognized by the Risk Assessment Specialty Section of the Society of Toxicology as Outstanding Published Papers Demonstrating an Application of Risk Assessment.

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 13 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. 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)

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

Federation of American Societies of Experimental Biology (FASEB) Distinguished Service (2)

- Board of Directors Member, 2006-2009

- Board of Directors Member, 1999-2004

Toxicology Excellence for Risk Assessment (TERA) Distinguished Service, 2008

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

Food and Drug Administration, Center for Drug Evaluation and Research Staff College Certificates of Appreciation (2)

- 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 Cell Biology

American Society for Reproductive Medicine (formerly American Fertility Society)

Federation of American Societies of Experimental Biology

International Society for the Study of Xenobiotics

Sigma Xi

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

Society for Risk Analysis

Society for the Study of Reproduction

Society of Toxicologic Pathology

Society of Toxicology

Fellow of the Academy of Toxicological Sciences

### **Publications**

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/rq.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.

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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.

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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

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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

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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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## **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 61st 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 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 23, 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.

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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.

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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.

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### **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 for 1,1,2,2-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