

Valerie Pavillard-Swaine, Ph.D.

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Professional Profile

Dr. Pavillard-Swaine is a regulatory toxicologist with broad experience across pesticides, biocides and REACH/CLP. Her expertise includes interpretation of a wide range of toxicological studies including toxicokinetics, acute and chronic toxicity, genotoxicity, carcinogenicity, reproductive and developmental toxicity, neurotoxicity, endocrine disruption, mechanistic studies, and conducting data gap analyses.

Dr. Pavillard-Swaine provides expert scientific support to clients on the technical and regulatory aspects of pesticide, biocide and REACH dossiers to support active substance approvals and product authorisations across Europe and international markets.

Prior to joining Exponent, Dr Pavillard-Swaine's experience at the UK regulatory authority - the Chemicals Regulation Division (CRD) of the Health and Safety Executive, UK - also included the assessment of the technical equivalence of pesticide technical materials, the relevance assessment of impurities and groundwater metabolites, dermal absorption and the use of New Approach Methodologies (NAM) for the approval of active substance and product authorisations.

During her nearly ten -year career at CRD, Dr. Pavillard-Swaine represented the UK at European Food Safety Authority (EFSA) Toxicology expert meetings on pesticides, and GB at the UK Expert Committee on Pesticides, and represented CRD at the UK Committees of Toxicity and Carcinogenicity. Dr Pavillard-Swaine has also led the delivery two workshops on Technical Equivalence and was a key presenter in workshops on endocrine disruption and dermal absorption.

Academic Credentials & Professional Honors

Ph.D., Biological Sciences, University of Bordeaux, 2001

Prior Experience

2015 - 2025: Toxicologist, Chemicals Regulation Division (CRD), Health and Safety Executive, UK

2006 - 2014: Personal tutor in Biology & French for students at A level or above and adults' French speaking groups, UK

2001 - 2005: Research Scientist, Post-doctoral position, University of Bradford, UK

Publications

Pavillard V, Nicolaou A, Double JA, Phillips RM. Methionine dependence of tumours: a biochemical strategy for optimising paclitaxel chemosensitivity in vitro. *Biochem Pharmacol.* 2006 Mar 14;71(6):772-8.

Pavillard V, Charasson V, Laroche-Clary A, Soubeyran I, Robert J. Cellular parameters predictive of the clinical response of colorectal cancers to irinotecan. A preliminary study. *Anticancer Res.* 2004 Mar-Apr;24(2B):579-85.

Pavillard V, Drbal AA, Swaine DJ, Phillips RM, Double JA, Nicolaou A. Analysis of cell-cycle kinetics and sulfur amino acid metabolism in methionine-dependent tumour cell lines; the effect of homocysteine supplementation. *Biochem Pharmacol.* 2004 Apr 15;67(8):1587-99.

Pavillard V, Agostini C, Richard S, Charasson V, Montaudon D, Robert J. Determinants of the cytotoxicity of irinotecan in two human colorectal tumour cell lines. *Cancer Chemother Pharmacol.* 2002 Apr;49(4):329-35. Epub 2002 Jan 30.

Pavillard V, Kherfellah D, Richard S, Robert J, Montaudon D. Effects of the combination of camptothecin and doxorubicin or etoposide on rat glioma cells and camptothecin-resistant variants. *Br J Cancer.* 2001 Sep 28;85(7):1077-83.

Pavillard V, Formento P, Rostagno P, Formento JL, Fischel JL, Francoual M, Etienne MC, Milano G. Combination of irinotecan (CPT11) and 5-fluorouracil with an analysis of cellu

Presentations

Professional presentations

Lecture on Occupational chemical risk assessment: a regulatory perspective. Toxicology MSc, University of Birmingham, 2023-2024

Human Health Endocrine Disruption of Pesticides and Biocides (online seminar). CRD HSE 2024, 2023

Experience with NAMs in Plant Protection Products assessments in GB – Toxicology. Evolving our Assessment and Future Guiding Principles Workshop, Committee of Toxicity, UK, 2023

Technical equivalence of pesticides (in-person workshops). CRD HSE York, 2019

Dermal Absorption (in-person workshop). CRD HSE, York, 2017

Academic presentations

V Pavillard, DJ Swaine, AA Drbal, RM Phillips & A Nicolaou. Methionine dependency of tumour cells PC-3: a biochemical strategy for optimising chemosensitivity. Presented at the EACR 19th Meeting 2004

V Pavillard, DJ Swaine, AA Drbal, RM Phillips & A Nicolaou. Methionine dependency of tumour: a biochemical strategy for optimising chemosensitivity. Presented at the BCRM 2003

A Nicolaou, V Pavillard, A Drbal, DJ Swaine, RM Phillips, JA Double. Analysis of cell cycle kinetics and sulfur amino acid metabolism in methionine dependent tumour cell lines; the effect of homocysteine supplementation. Presented at the FASEB Meeting 2002

V Pavillard, DJ Swaine, RM Phillips, A Nicolaou, & JA Double. Methionine dependency of tumours: a biochemical strategy for synchronising cells in specific phases of the cell cycle. Presented at the BCRM 2002

V Pavillard, C Agostini, S Richard, J Robert. Determinants of the cytotoxicity of irinotecan in two human colorectal tumour cell lines. Presented at the AACR 91st Annual Meeting (2000).

V Pavillard, P Formento, P Rostagno, JL Fischel, N Renée, MC Etienne, G Milano. Tumoral determinants for the combination CPT11-fluorouracil. Presented at the AACR 89th Annual Meeting (1998).