

## Marie-France Soucy

### Publication

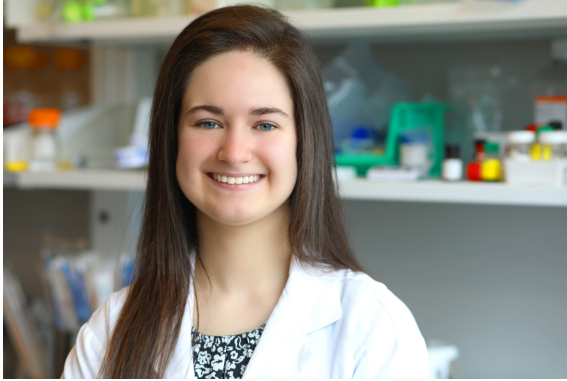
Léger, J. L., Soucy, M. F. N., Veilleux, V., Foulem, R. D., Robichaud, G. A., Surette, M. E.,... & Boudreau, L. H. (2022). Functional platelet-derived mitochondria induce the release of human neutrophil microvesicles. *EMBO reports*, 23(11), e54910.

Jougleux, J. L., Léger, J. L., Djeungoue-Petga, M. A., Roy, P., Soucy, M. F. N., Veilleux, V.,... & Boudreau, L. H. (2021). Evaluating the mitochondrial activity and inflammatory state of dimethyl sulfoxide differentiated PLB-985 cells. *Molecular Immunology*, 135, 1–11.

Lebel, A. A., Kisembo, M. V., Soucy, M. F. N., Hébert, M. P., & Boudreau, L. H. (2021). Molecular characterization of the anticancer properties associated with bee venom and its components in glioblastoma multiforme. *Chemico-Biological Interactions*, 347, 109,622.

**SCHOLARSHIP RECIPIENT 2024–2025** → **\$5,000**

**Vanessa Veilleux**



**Vanessa Veilleux**

Diploma in Health Sciences  
Université de Moncton, NB, Canada  
(2014-2016)

BSc, specialization in biochemistry  
Université de Moncton, NB, Canada  
(2016-2018)

MSc in Biochemistry—transferred to PhD without completing Masters  
Université de Moncton, NB, Canada  
(2018–2019)

PhD in Life Sciences  
Université de Moncton, NB, Canada  
(2020-present)

**Research discipline:** Biochemistry, Cell Biology, Molecular Biology, Immunology, Oncology

**Research areas:** Breast cancer, Platelets, Metabolism, Cell Signaling and Cancer, Host-Tumor Interaction, Immune System, Carcinogenesis

**Application fields:** Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

**Research specialization:** Cancer Research, Extracellular Vesicles, Mitochondria, Platelets, Intercellular Communication, Tumor Microenvironment, Metastatic Cascade, Metabolism

## PUBLICATION

**Veilleux, V.**, Pichaud, N., Boudreau, L. H., & Robichaud, G. A. (2024). Mitochondria transfer by platelet-derived microparticles regulates breast cancer bioenergetic states and malignant features. *Molecular Cancer Research*, 22(3), 268-281.

Gharib, E., **Veilleux, V.**, Boudreau, L. H., Pichaud, N., & Robichaud, G. A. (2023). Platelet-derived microparticles provoke chronic lymphocytic leukemia malignancy through metabolic reprogramming. *Frontiers in Immunology*, 14, 1207631.

Léger, J. L., Soucy, M. F. N., **Veilleux, V.**, Foulem, R. D., Robichaud, G. A., Surette, M. E., Allain, E. P., & Boudreau, L. H. (2022). Functional platelet-derived mitochondria induce the release of human neutrophil microvesicles. *EMBO reports*, 23(11), e54910.

Jougleux, J. L., Léger, J. L., Djeungoue-Petga, M. A., Roy, P., Soucy, M. F. N., **Veilleux, V.**, Hébert, M. P. A., Hébert-Chatelain, E., & Boudreau, L. H. (2021). Evaluating the mitochondrial activity and inflammatory state of dimethyl sulfoxide differentiated PLB-985 cells. *Molecular Immunology*, 135, 1-11.

## ORAL PRESENTATIONS

**Vanessa Veilleux.** (2022). *Functional Platelet-Derived Mitochondria-Containing Microparticles Modulates the Bioenergetic State of Breast Cancer Cells*. Annual New Brunswick Health Research Conference, Fredericton, N.-B., Canada.

**Vanessa Veilleux.** (2022). Functional platelet-derived mitochondria-containing microparticles modulates the bioenergetic state of breast cancer cells. 13<sup>th</sup> Targeting Mitochondria Congress, Berlin, Allemagne.

**Vanessa Veilleux.** (2022). *Horizontal Transfer of Functional Platelet-Derived Mitochondria—Containing Microparticles Modulates the Bioenergetic State of Breast Cancer Cells*. Extracellular Vesicles Gordon Research Conference, Newry, ME, United States.

**Vanessa Veilleux.** (2019). *Caractérisation fonctionnelle des microparticules dérivées de plaquettes dans le cancer*. 30<sup>e</sup> Colloque des Jeunes Chercheuses et Chercheurs, Université de Moncton, NB, Canada.

**Vanessa Veilleux.** (2018). *Développement d'un essai spécifique pour la détection des ARNs circulaires de Pax-5 dans le cancer*. 29<sup>e</sup> Colloque des Jeunes Chercheuses et Chercheurs, Université de Moncton, NB, Canada.

## POSTER PRESENTATIONS

**Vanessa Veilleux.** (2023). *Mitochondria transfer by platelet-derived microparticles regulates breast cancer bioenergetic states and malignant features.* Canadian Cancer Research Conference 2023, Halifax, NS, Canada.

**Vanessa Veilleux.** (2023). *Platelet—derived mitochondria microparticles modulate breast cancer malignant processes.* American Association for Cancer Research Annual Meeting 2023, Orlando, FL, United States.

**Vanessa Veilleux.** (2022). *Horizontal transfer of functional platelet-derived mitochondria-containing microparticles modulates the bioenergetic state of breast cancer cells.* Extracellular Vesicles Gordon Research Conference, Newry, ME, United States.

**Vanessa Veilleux.** (2021). *Functional Characterization of Platelet-Derived Microparticles in Breast Cancer.* Annual New Brunswick Health Research Conference, Moncton, NB, Canada.

**Vanessa Veilleux.** (2021). *Functional Characterization of Platelet-Derived Microparticles in Breast Cancer.* 12<sup>th</sup> Targeting Mitochondria Congress (Virtual).

**Vanessa Veilleux.** (2021). *Breast Cancer Processes Are Modulated by Platelet-Derived Microparticles.* Experimental Biology 2021 (Virtual).

**Vanessa Veilleux.** (2018). *Functional Characterization of Platelet-Derived Microvesicles in Cancer.* 10<sup>th</sup> Annual New Brunswick Health Research Conference, Fredericton, NB, Canada.