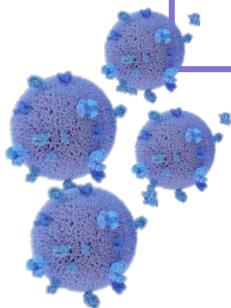
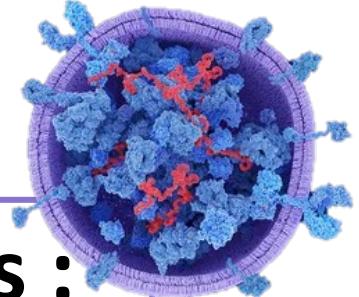


28^{ème} Congrès National de Cancérologie et de Radiothérapie

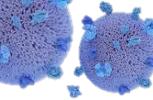
14^{ème} Symposium : Le cancer de la biologie à la clinique

Les vésicules extracellulaires plasmatiques : de nouveaux biomarqueurs de suivi des patients atteintes du cancer du sein

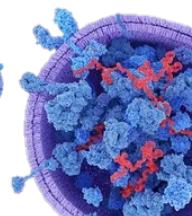
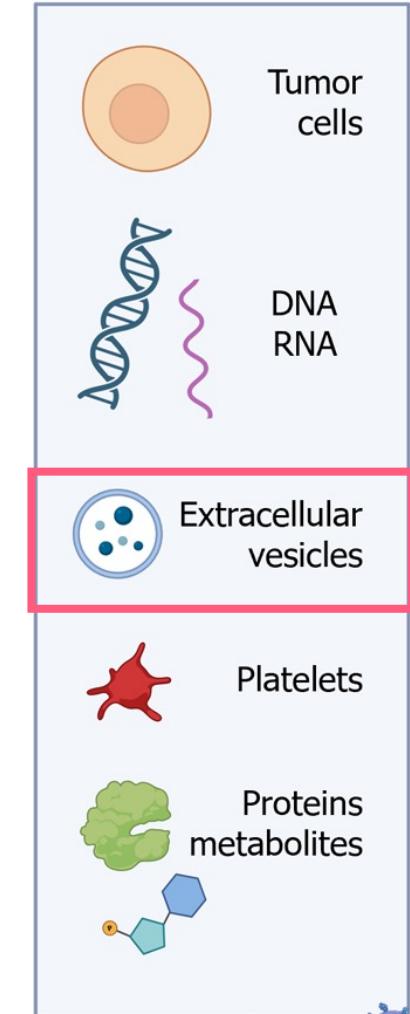
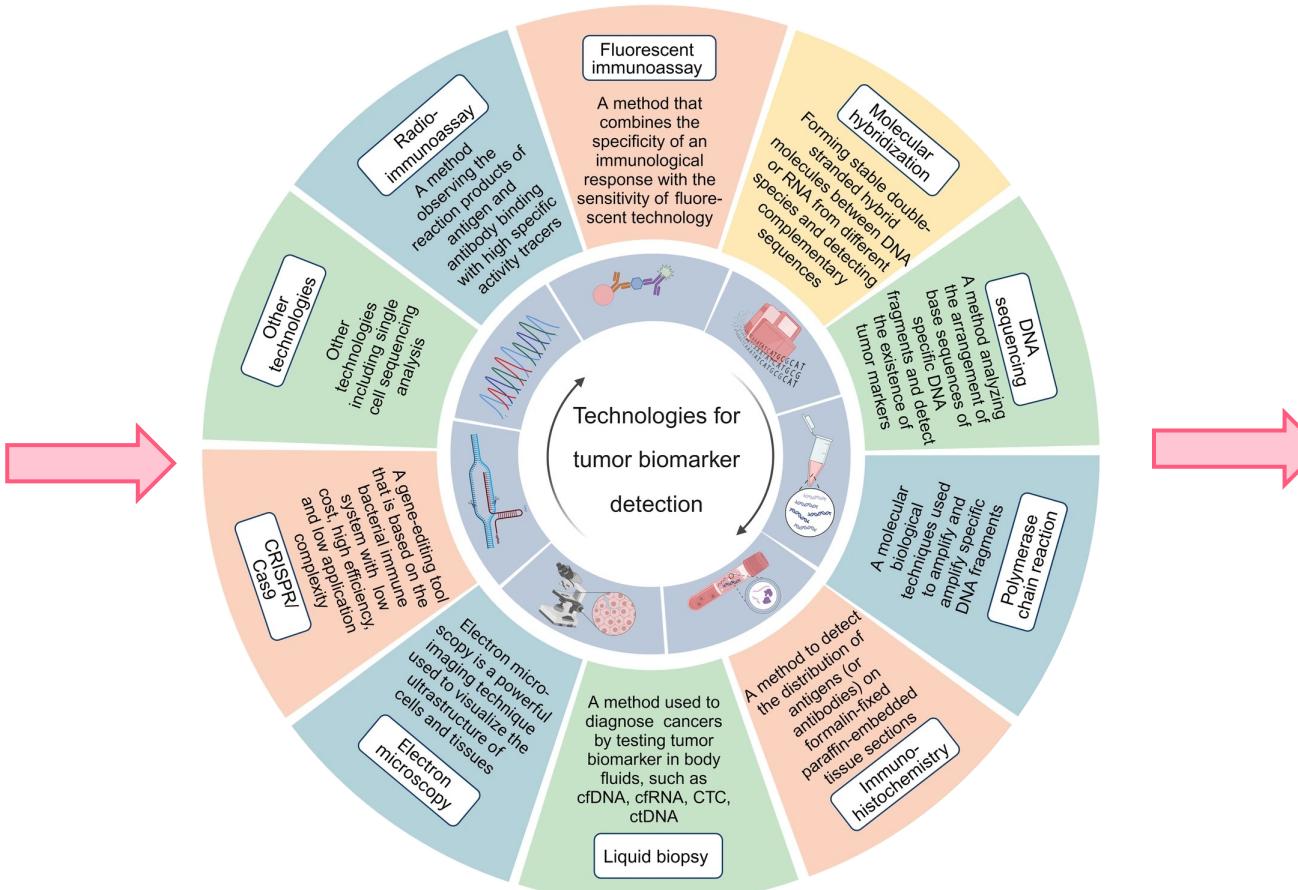
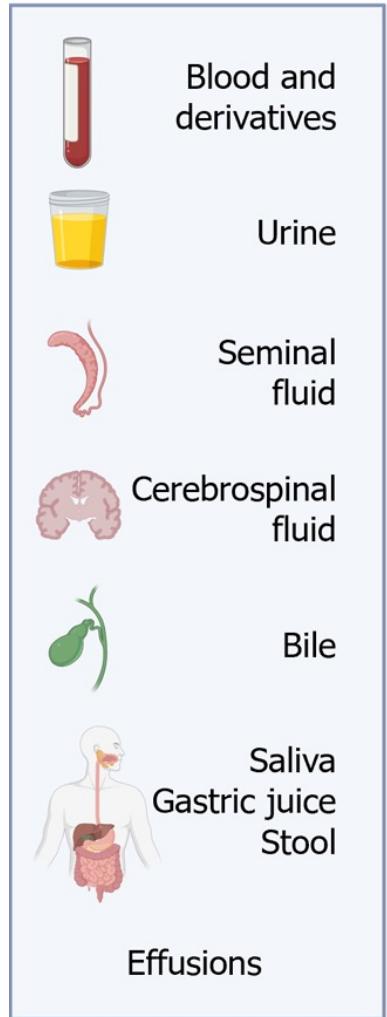


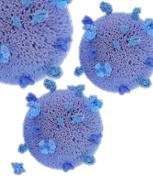
Doctorante Jaweher BDAY



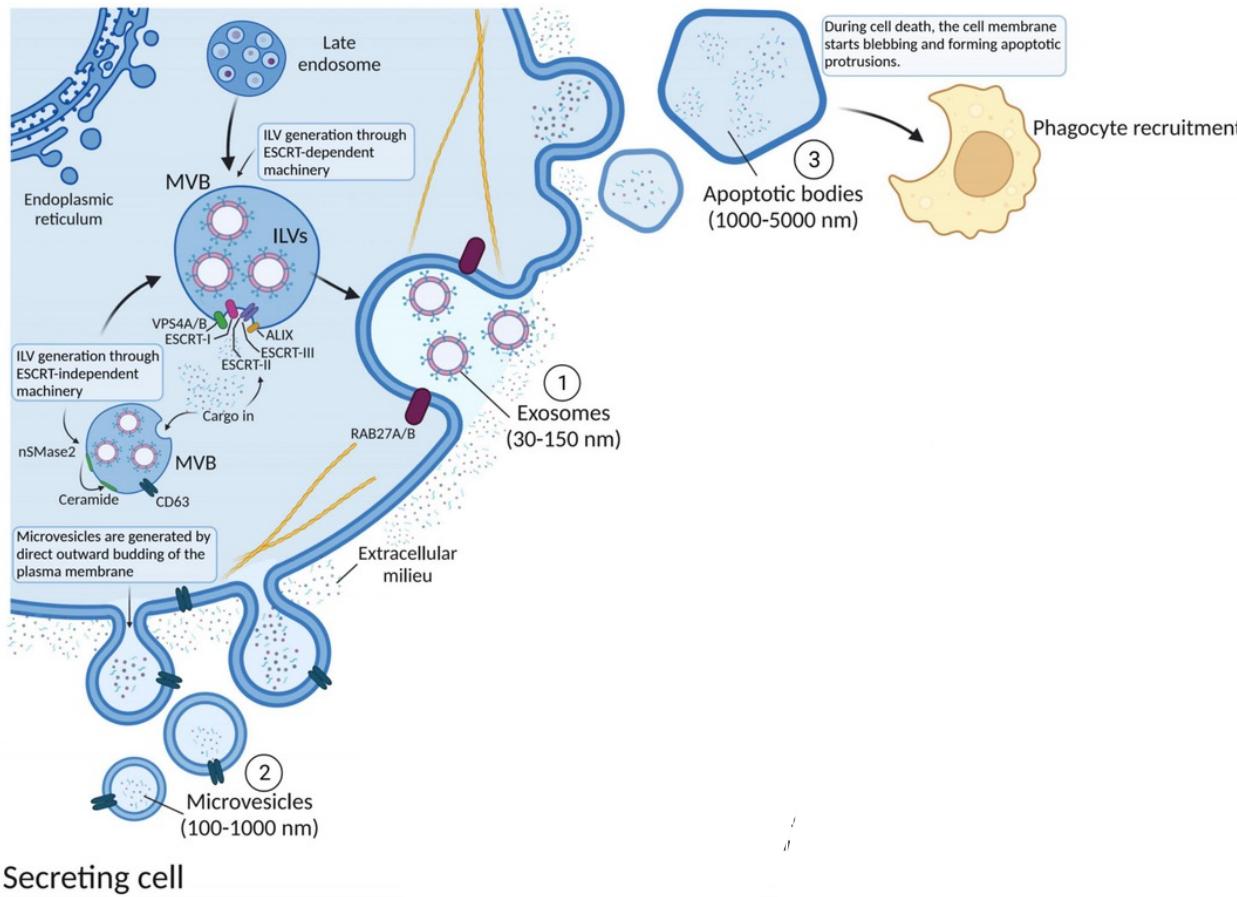


Biomarqueurs de diagnostic et de pronostic dans le cancer



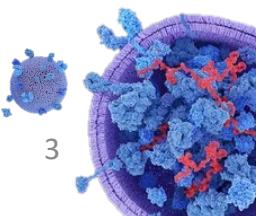


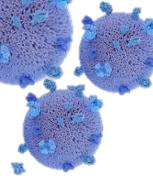
Les vésicules extracellulaires



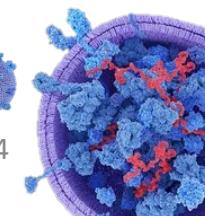
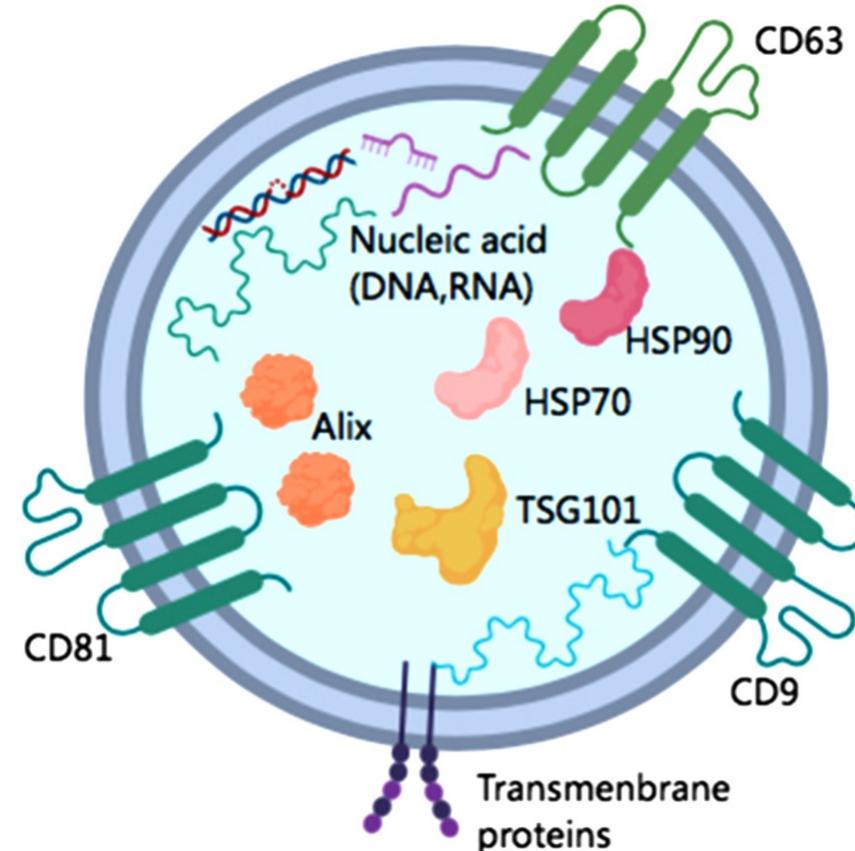
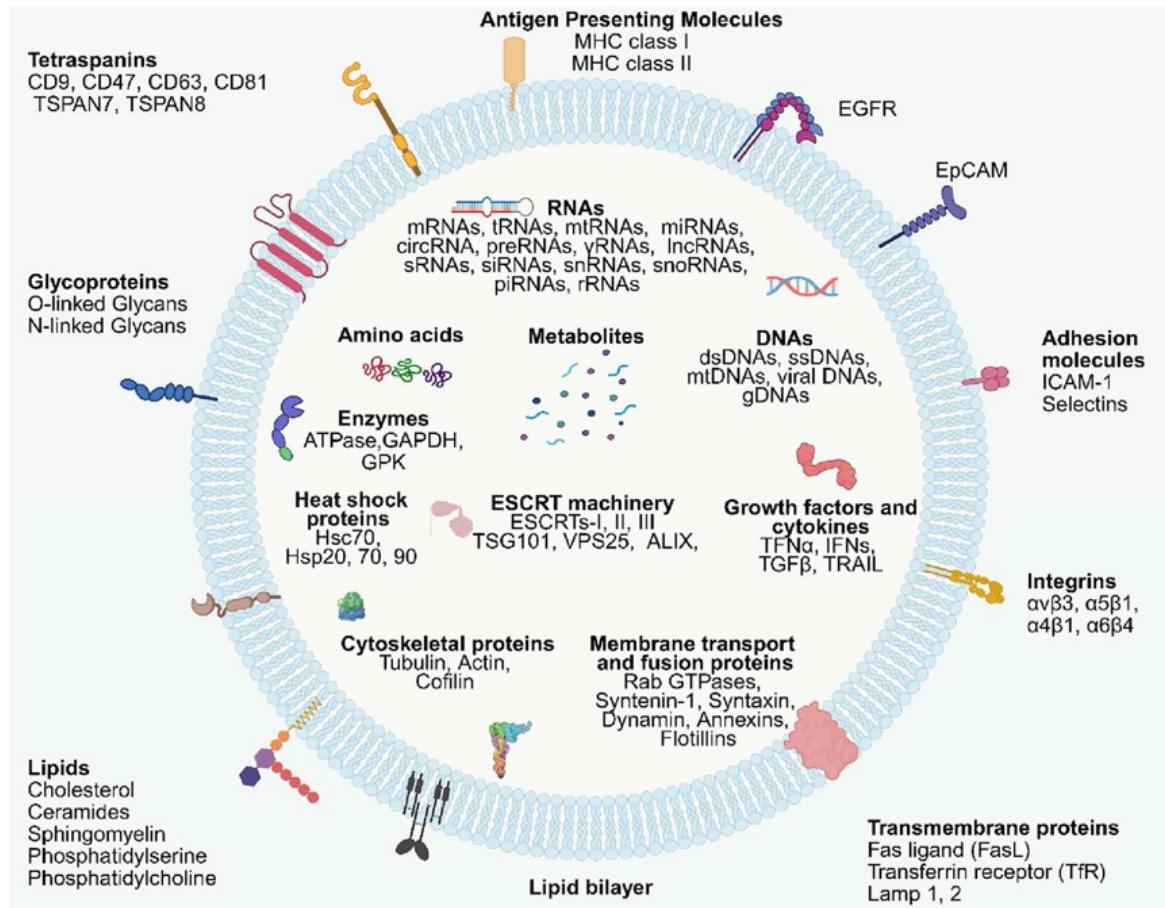
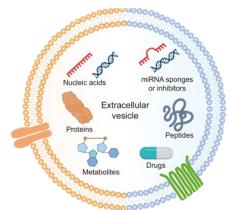
Les vésicules extracellulaires (VE) sont des structures membranaires libérées par les cellules et impliquées dans la communication intercellulaire. Elles contiennent des protéines, des lipides et des acides nucléiques

(Lucci and De Groef, 2023)

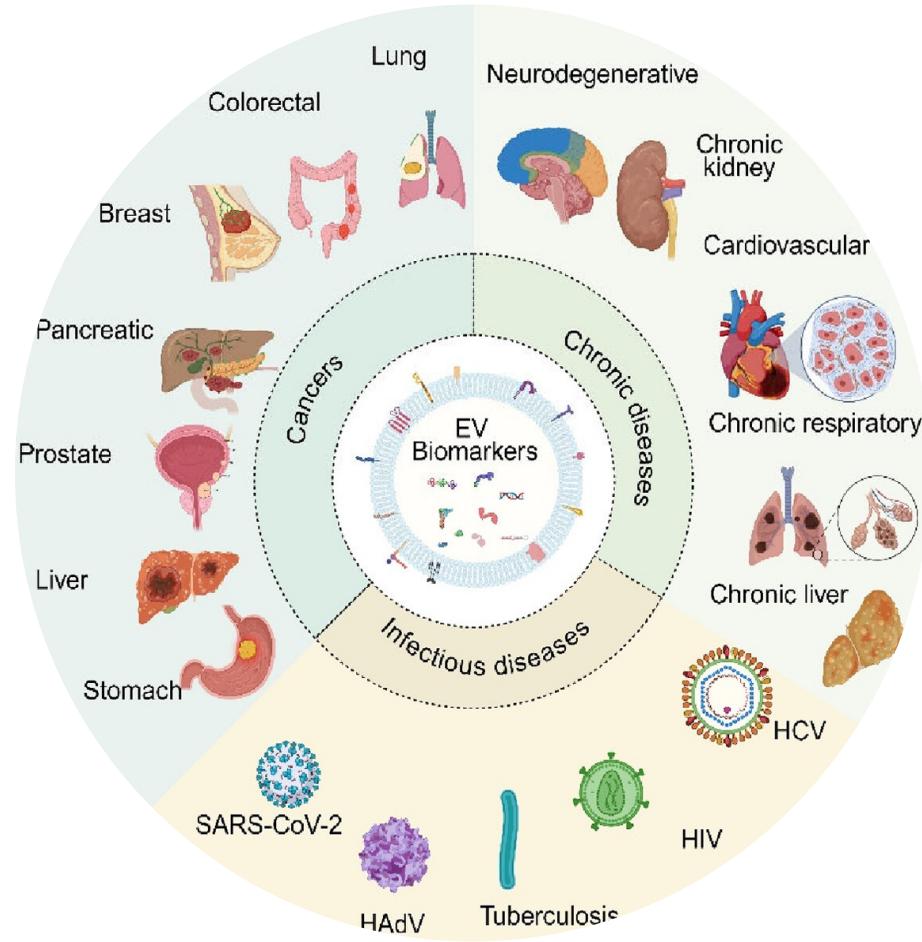




Les vésicules extracellulaires



Les vésicules extracellulaires dans les maladies



Les vésicules extracellulaires

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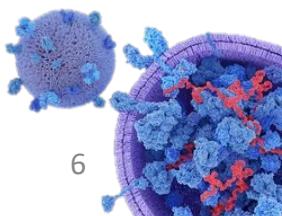
1956 2026

1 **Extracellular vesicles** as biomarkers and therapeutic targets for **cancer**.
Urabe F, Kosaka N, Ito K, Kimura T, Egawa S, Ochiya T.
Am J Physiol Cell Physiol. 2020 Jan 1;318(1):C29-C39. doi: 10.1152/ajpcell.00280.2019. Epub 2019 Nov 6.
PMID: 31693397 **Free article.** **Review.**
Extracellular vesicles (EVs) are small lipid membrane **vesicles** that are secreted from almost all kinds of cells into the **extracellular** space. ...In addition, EVs derived from **cancer** cells encapsulate various kinds of tumor-specific molecules, su ...

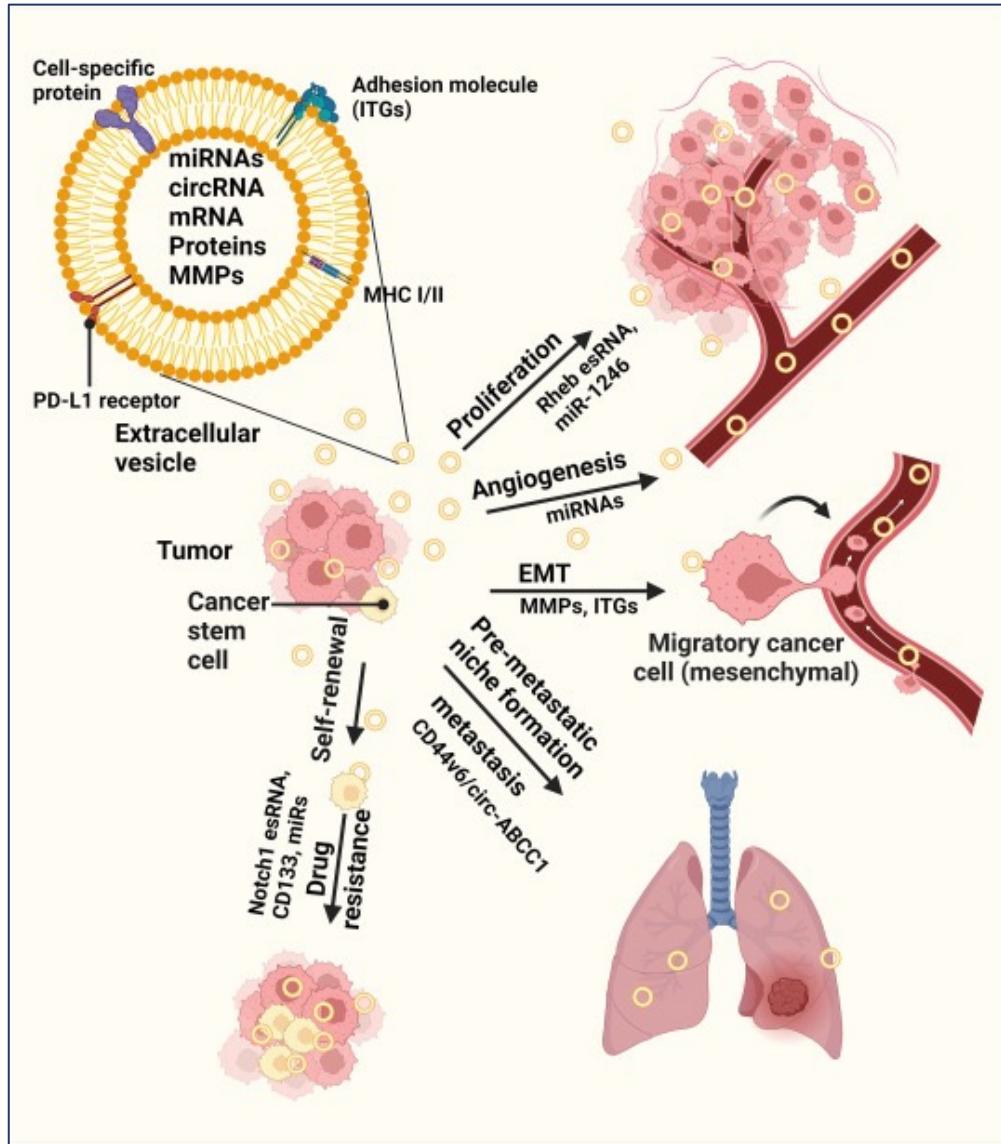
2 **Therapeutic roles of mesenchymal stem cell-derived extracellular vesicles in cancer.**
Cite Weng Z, Zhang B, Wu C, Yu F, Han B, Li B, Li L.
J Hematol Oncol. 2021 Sep 3;14(1):136. doi: 10.1186/s13045-021-01141-y.
PMID: 34479611 **Free PMC article.** **Review.**
Extracellular vesicles (EVs) are cell-derived membrane structures enclosing proteins, lipids, RNAs, metabolites, growth factors, and cytokines. ...Therefore, MSC-derived EVs can be a cell-free **cancer**

PUBLICATION DATE

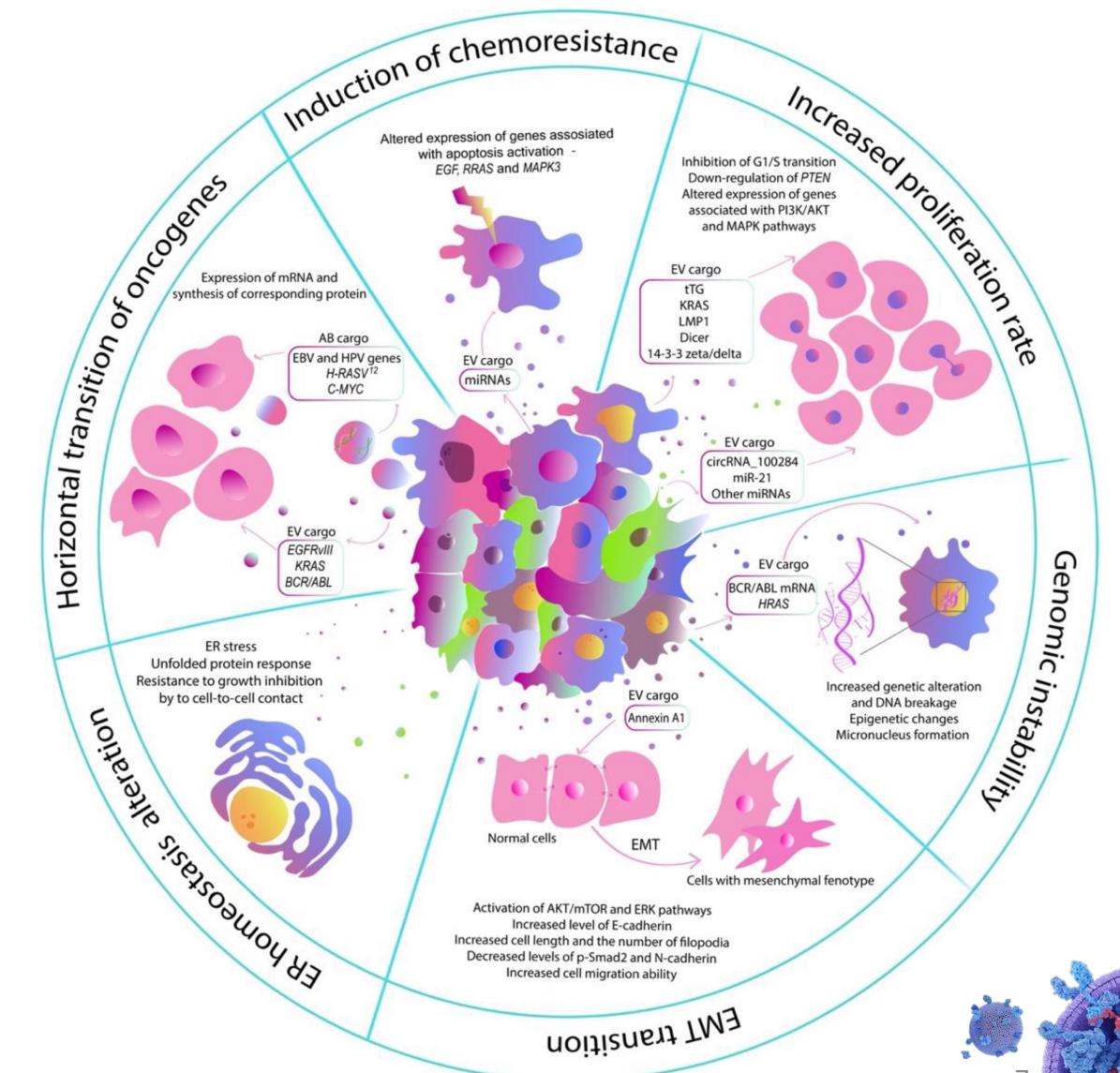
1 year
5 years
10 years
Custom Range



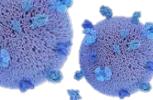
Les vésicules extracellulaires dans le cancer



(Patel et al., 2025)



(Chulpanova et al., 2022)

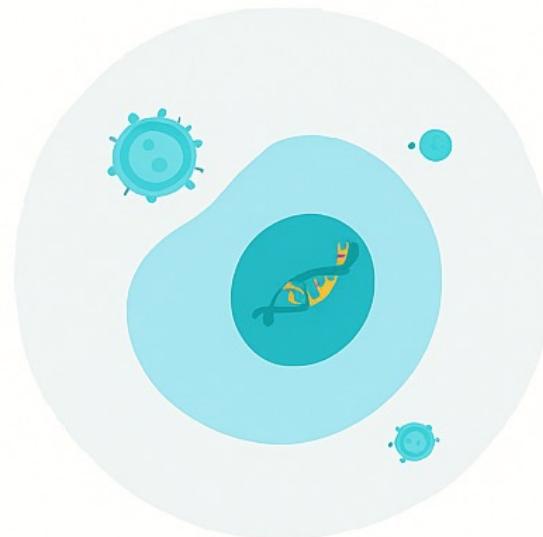


Pourquoi les VE comme de nouveaux biomarqueurs ?



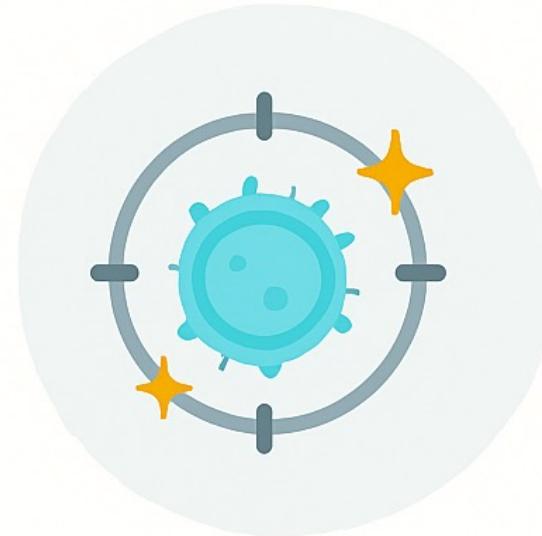
Accessibilité

Présentes dans divers fluides biologiques (sang, urine, etc.), permettant des biopsies liquides non invasives .



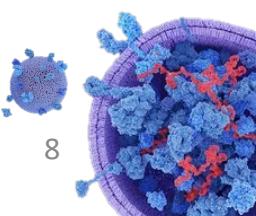
Représentativité

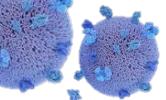
Reflètent l'état moléculaire des cellules sécrétrices.



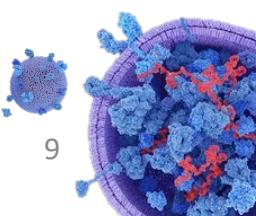
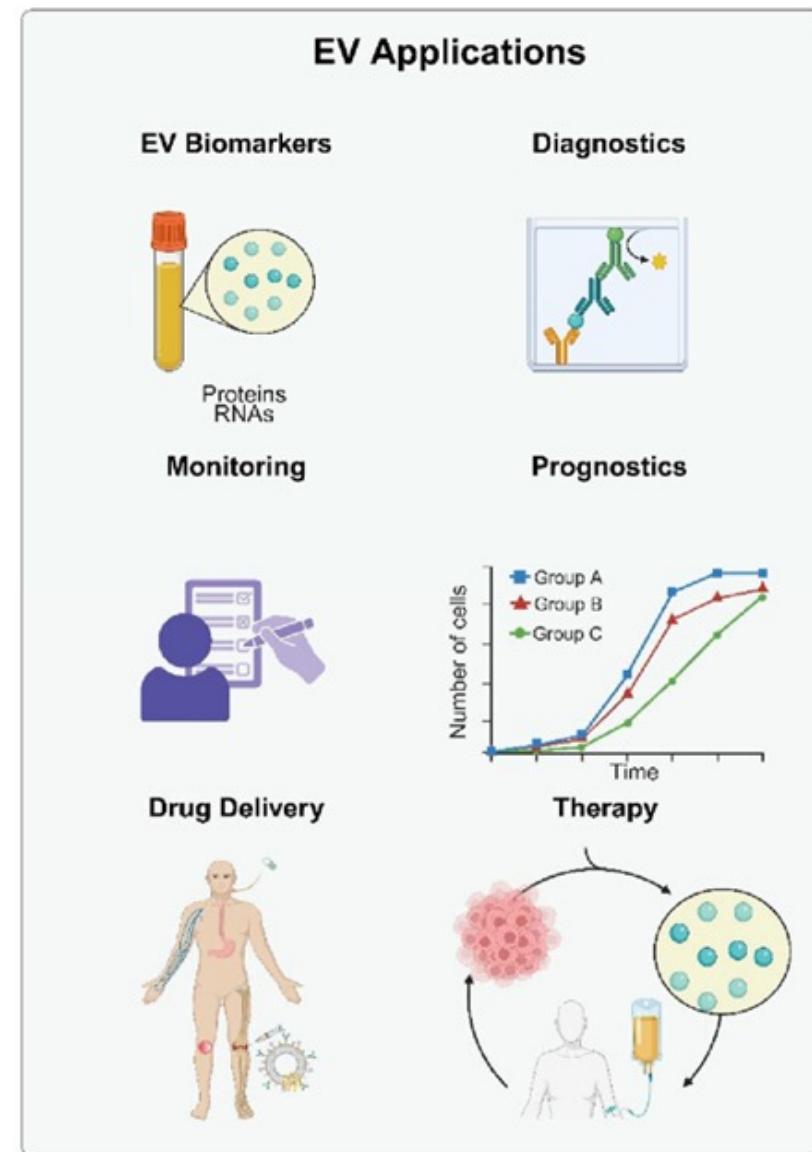
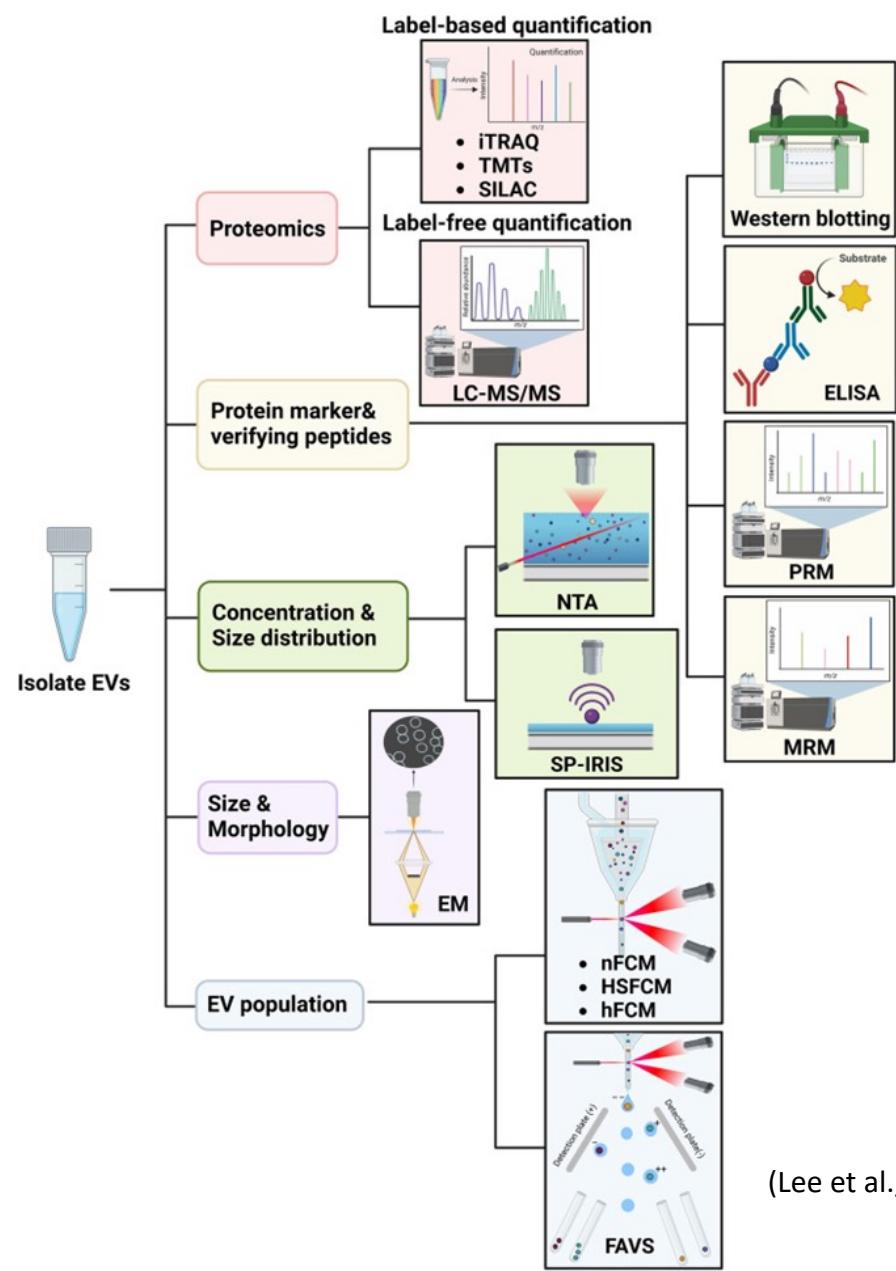
Stabilité

Protègent leur contenu de la dégradation, assurant une analyse fiable .

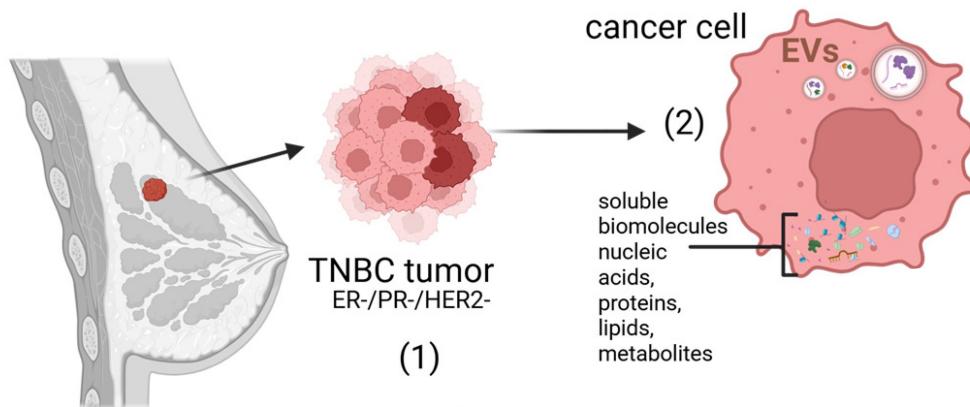


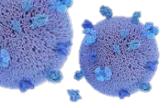


Analyses et applications des VEs

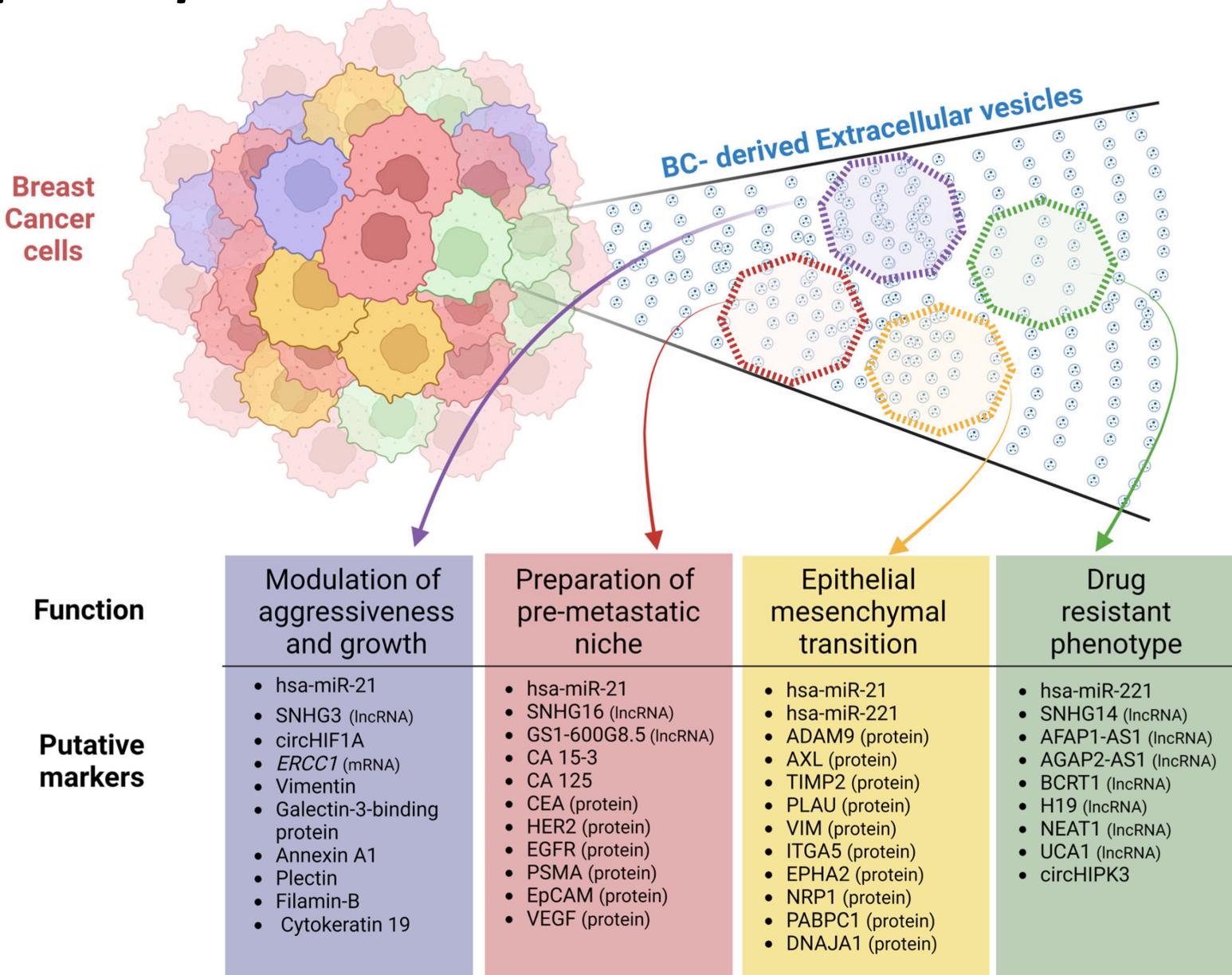


Les VEs dans le cancer du sein

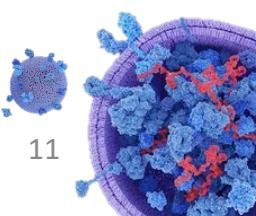




Marqueurs potentiels dans les VE dérivées du cancer du sein

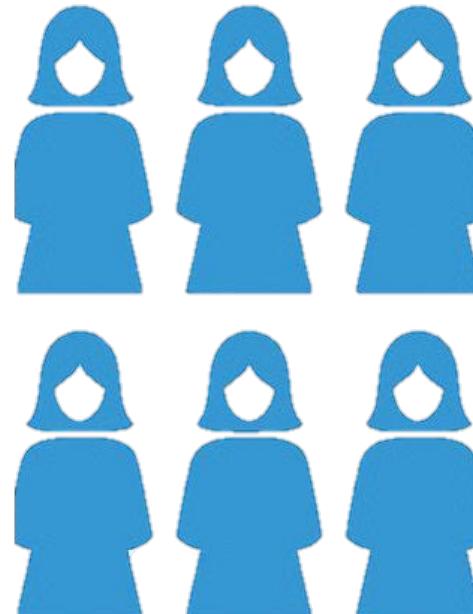


(Murillo Carrasco et al., 2023)

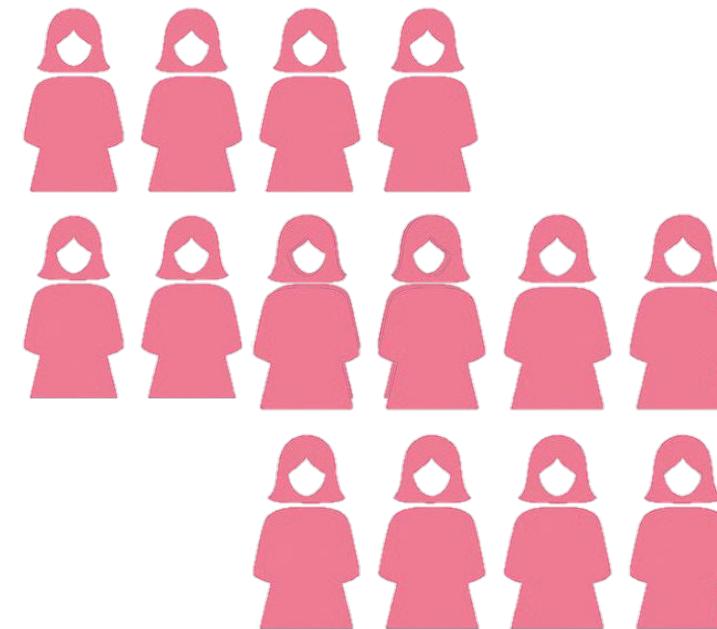


Quantification et caractérisation des vésicules extracellulaires dérivées du plasma des patientes atteintes du cancer du sein

Population d'étude



Femmes contrôles

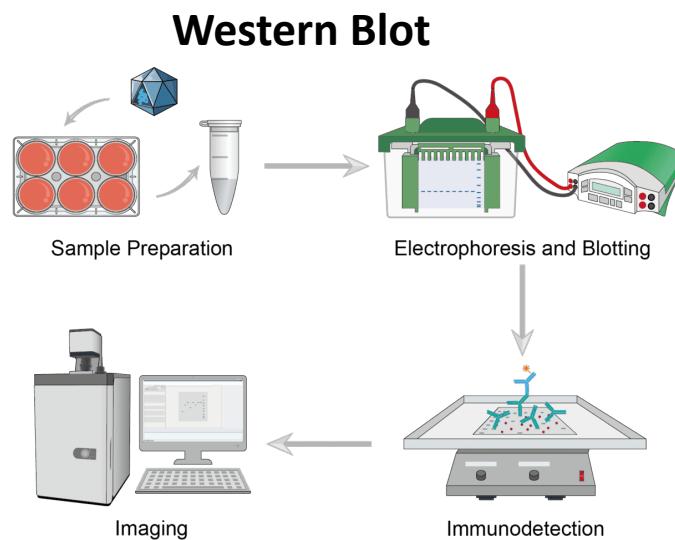
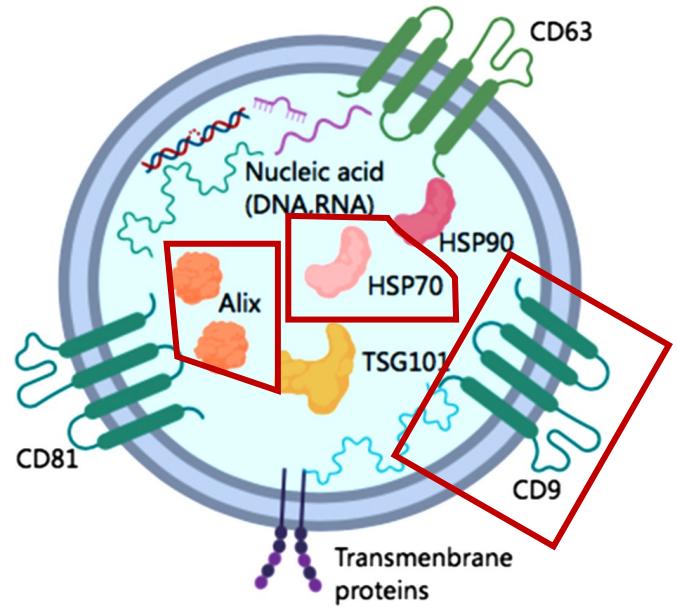
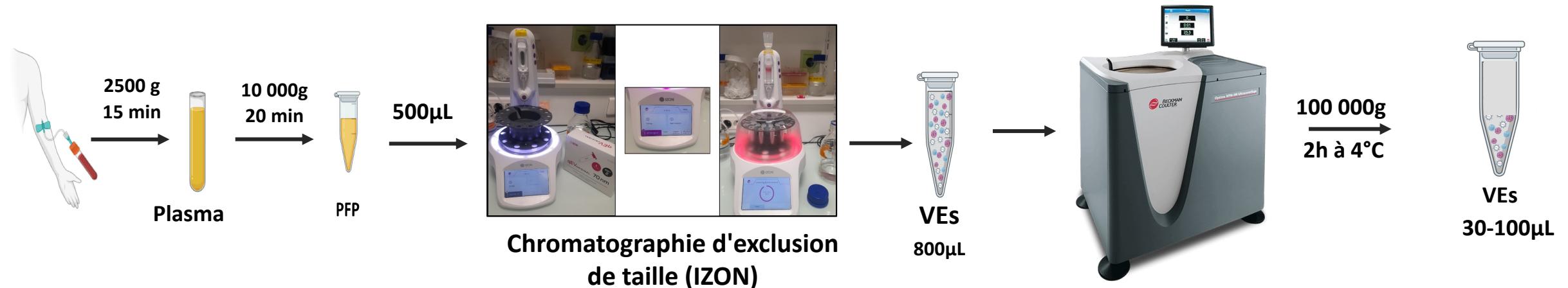


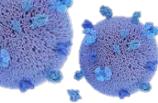
Patientes atteintes du cancer du sein



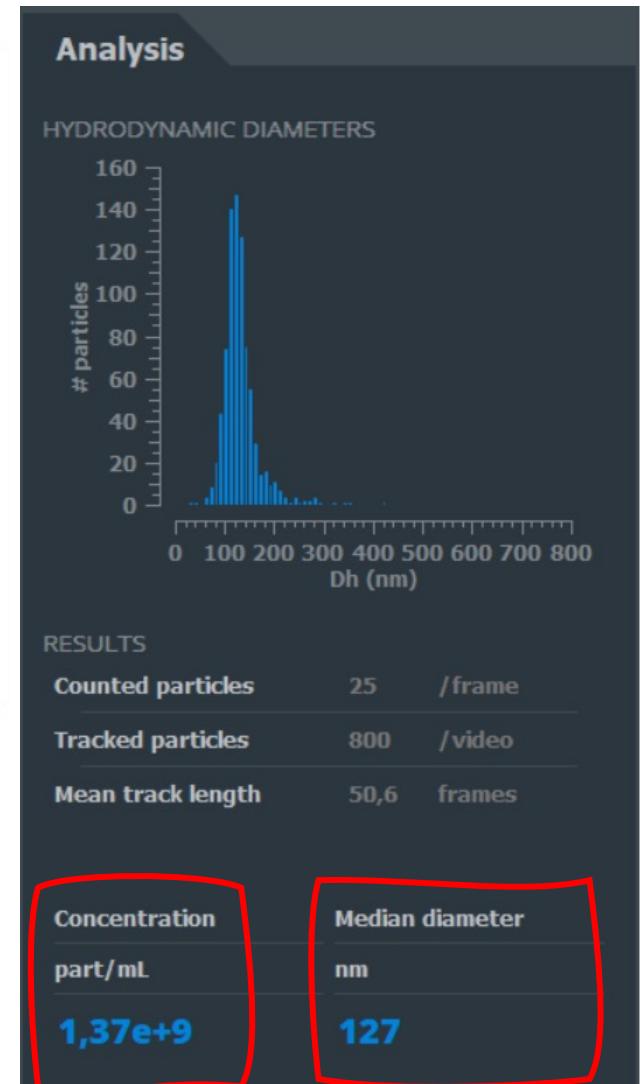
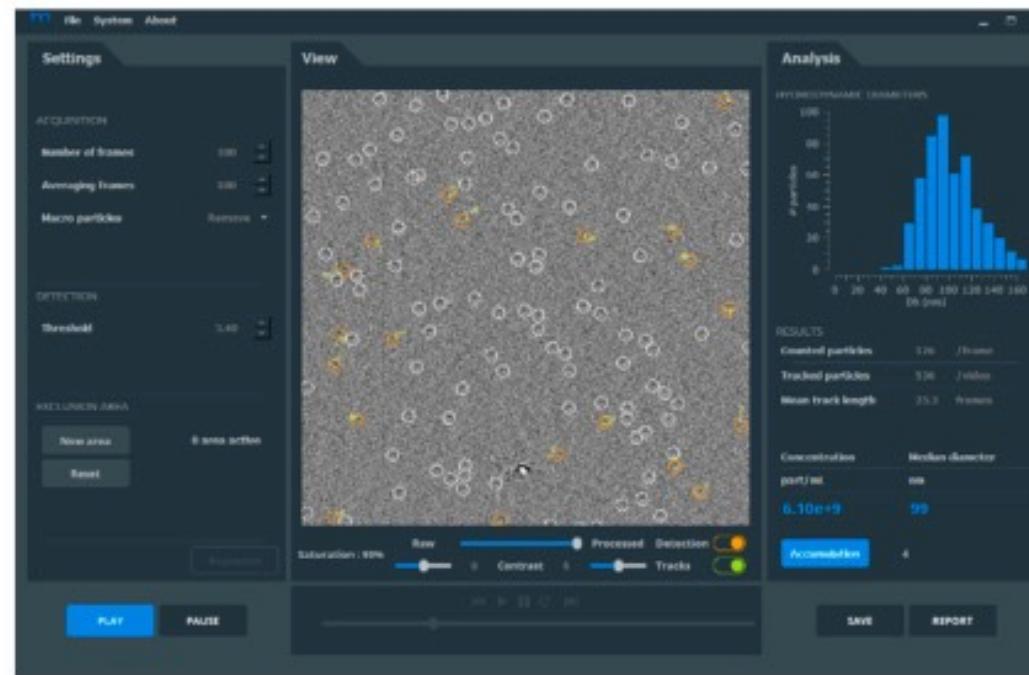
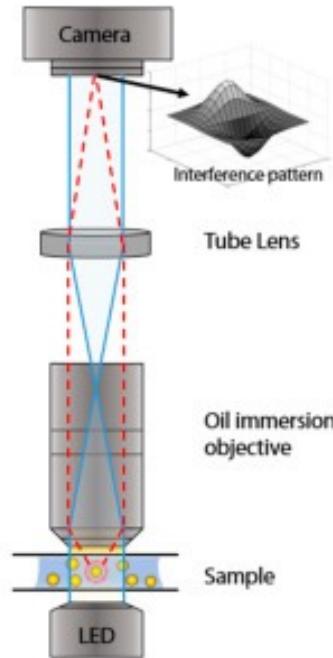
CHU Farhat Hached de Sousse.

Isolement, purification et caractérisation des VEs plasmatiques





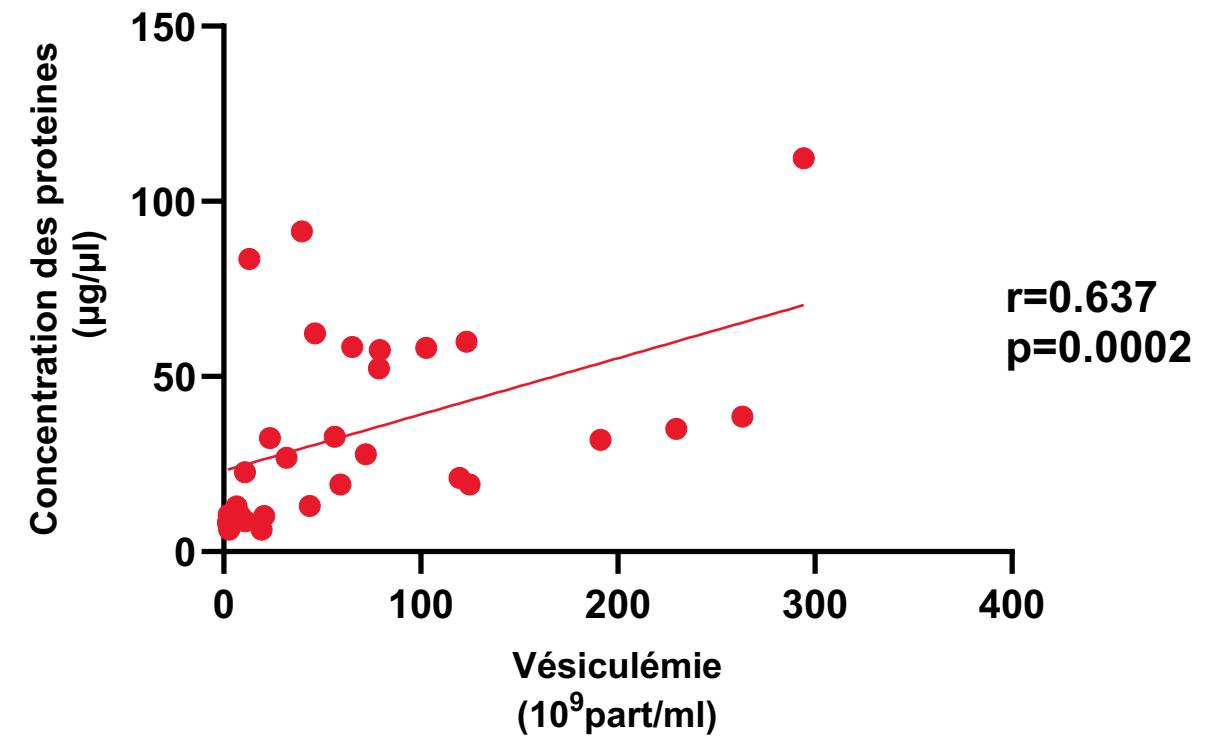
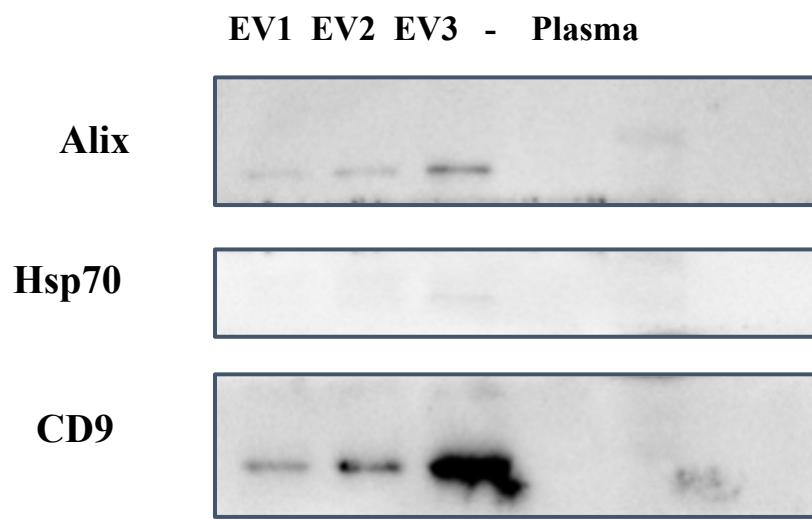
Quantification des VEs

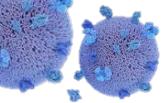


Le principe de vidéos Drop (la microscopie interférométrique d'imagerie) est basé sur un microscope à transmission à fond clair utilisé comme interférométrie homodyne pour détecter, compter et suivre les nanoparticules

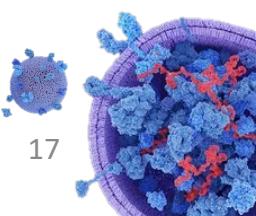
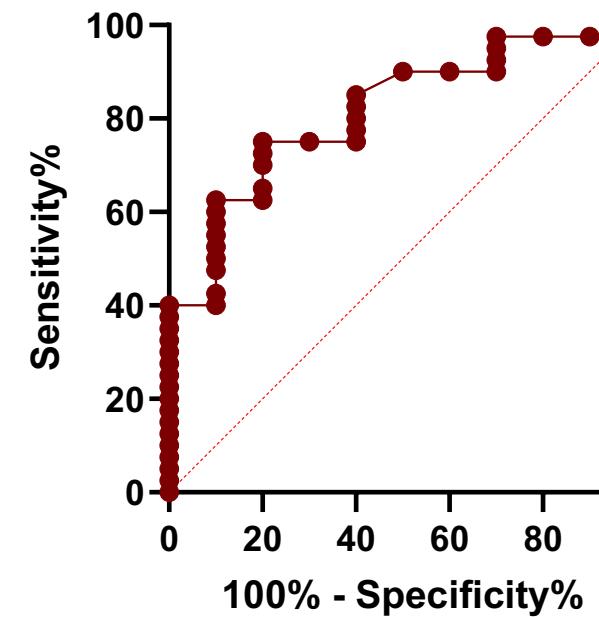
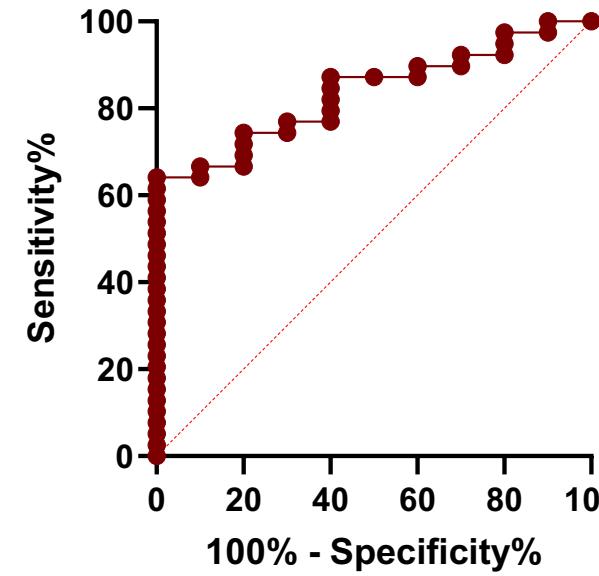
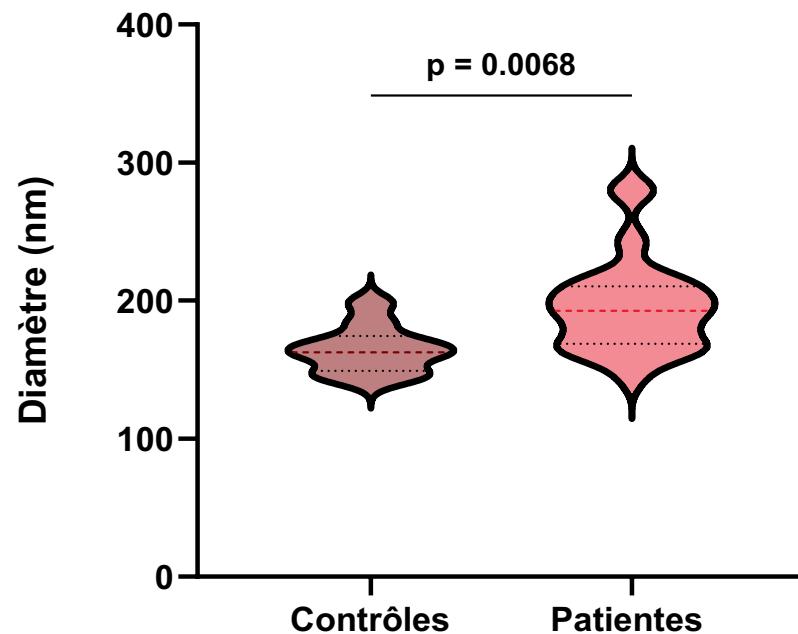
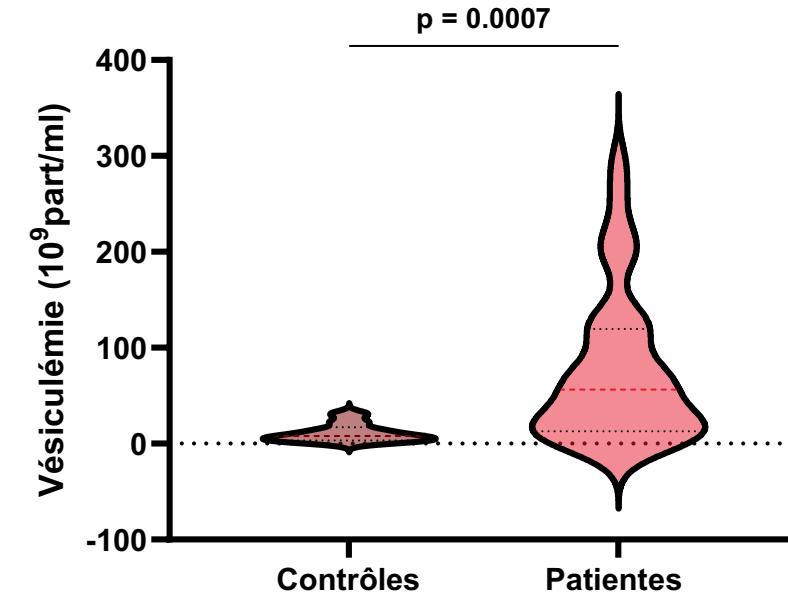
Videodrop filme en temps réel dans une simple goutte les particules biologiques entre 80 nm & 500nm et fournit une image microscopique jusqu'à 10 µm.

Caractérisation des VEs plasmatiques

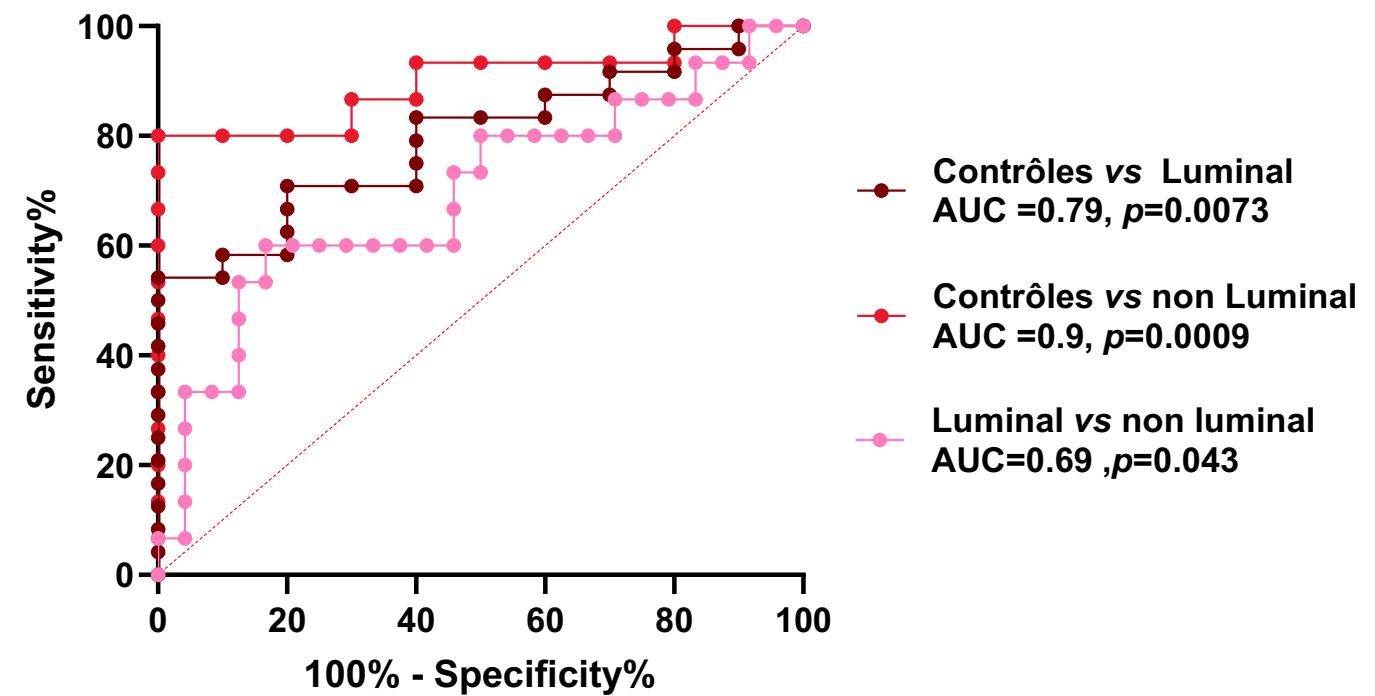
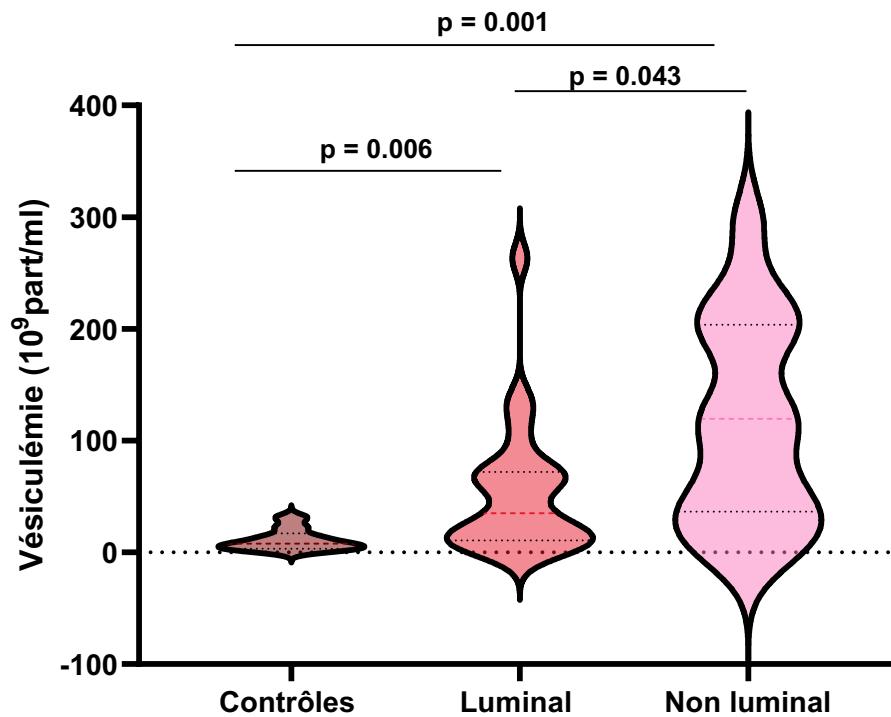


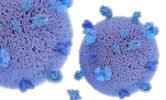


Les VEs et l'occurrence du cancer du sein

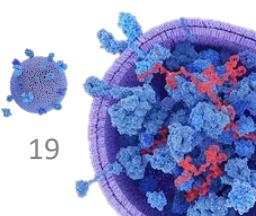
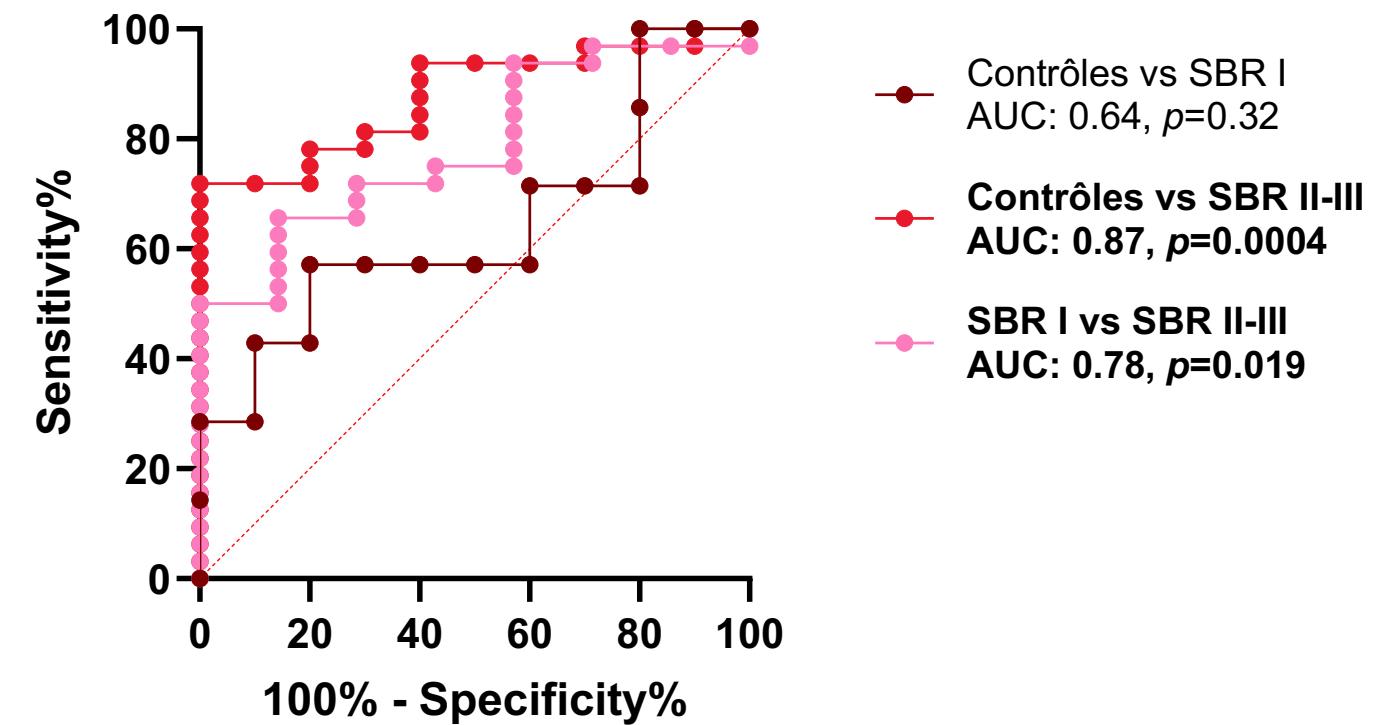
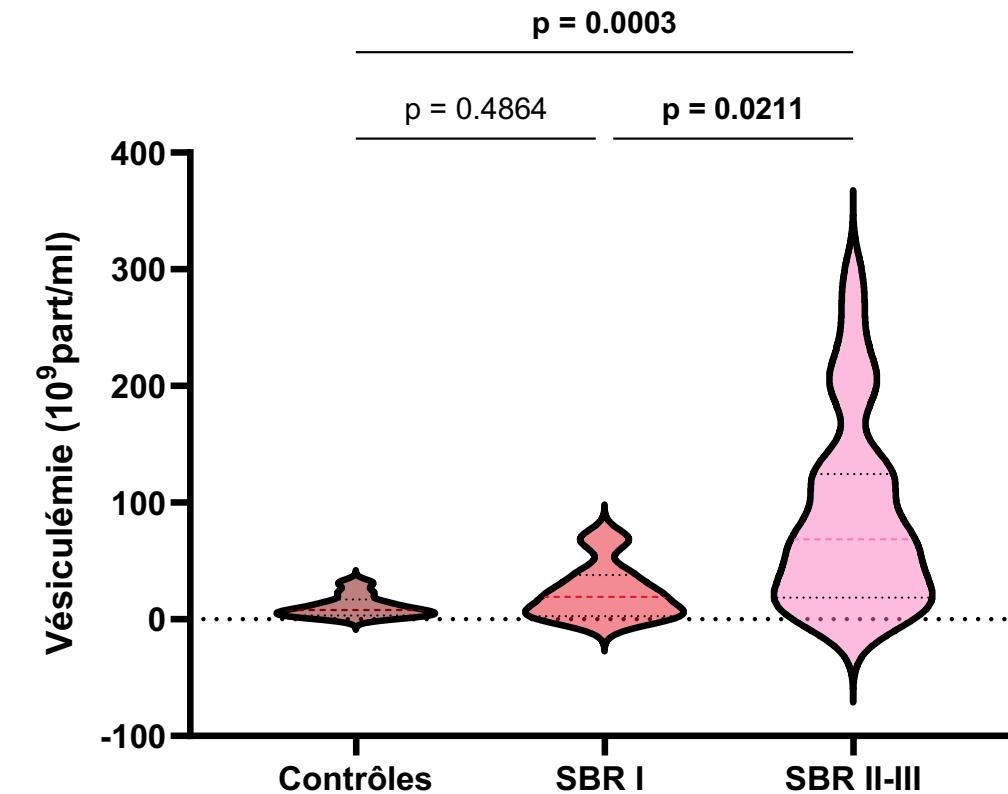


Les VEs et la sévérité du cancer du sein



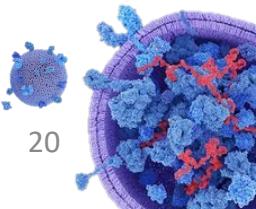
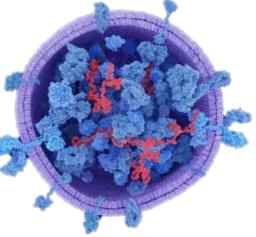


Les VEs et la sévérité du cancer du sein

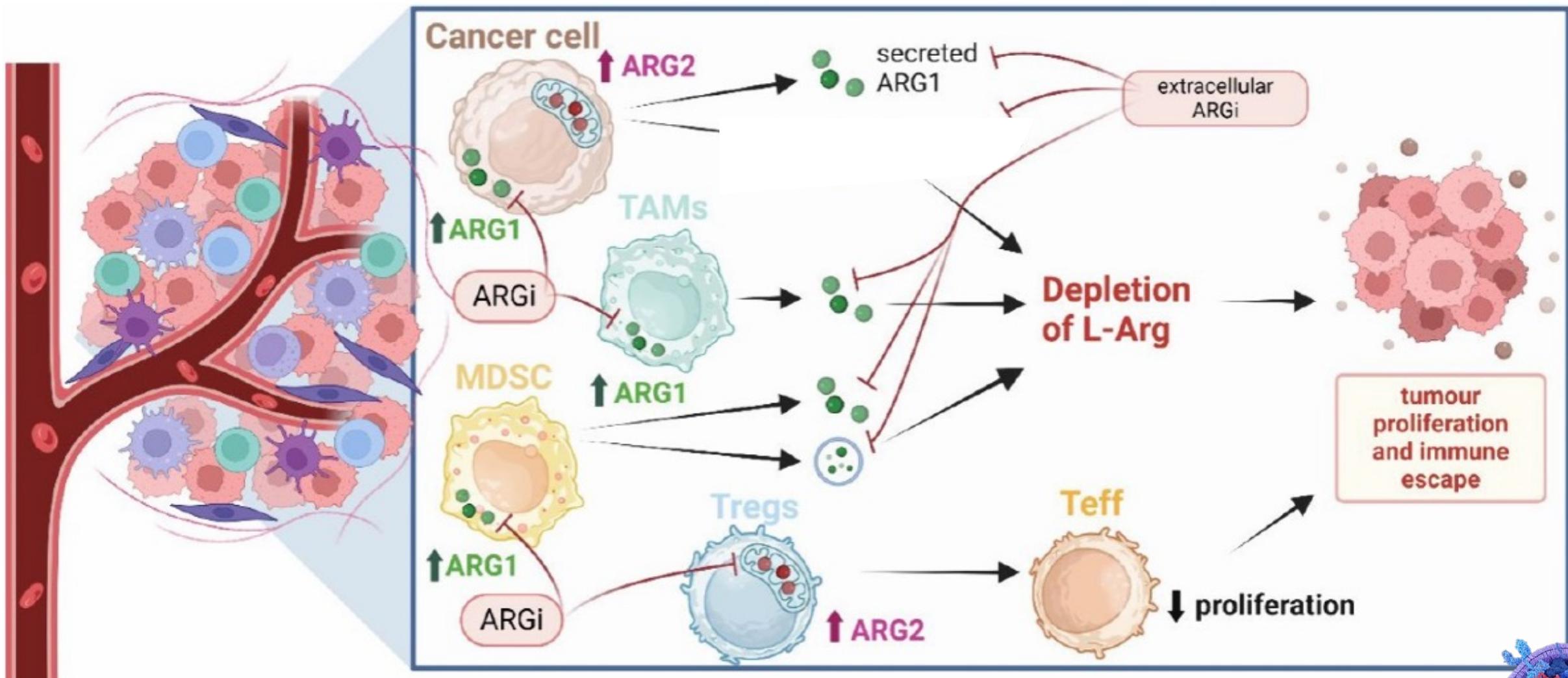




Les vésicules extracellulaires représentent une source prometteuse de biomarqueurs non invasifs pour le diagnostic et le pronostic du cancer du sein

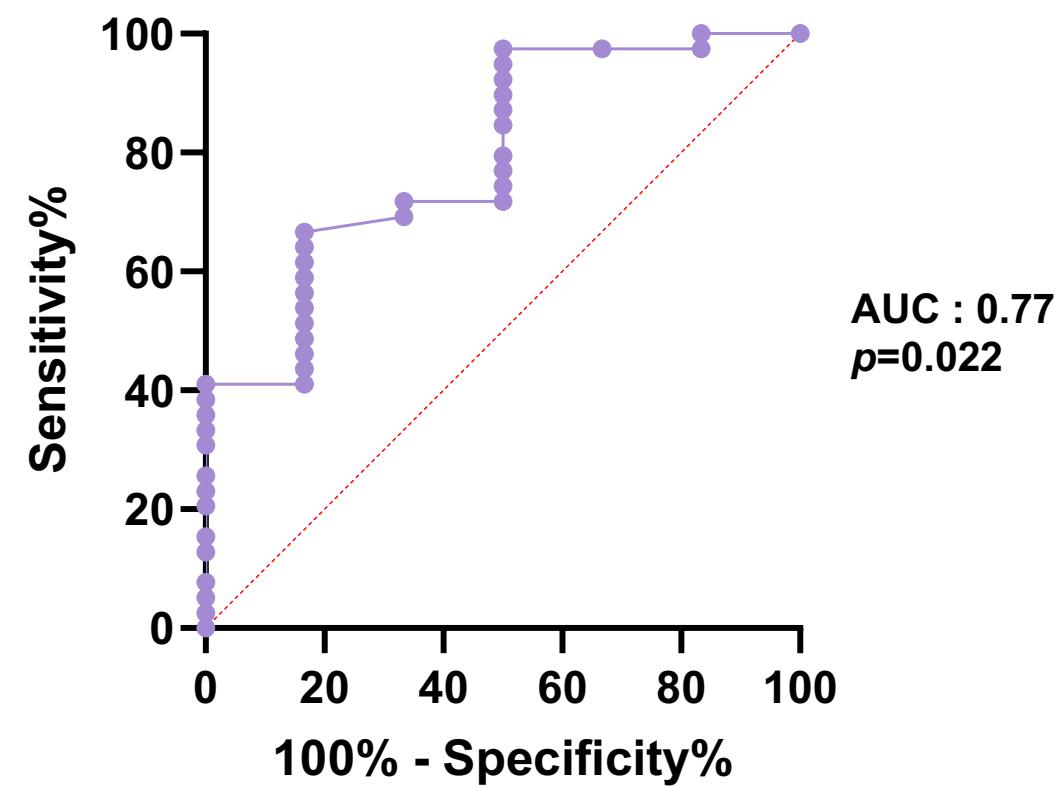
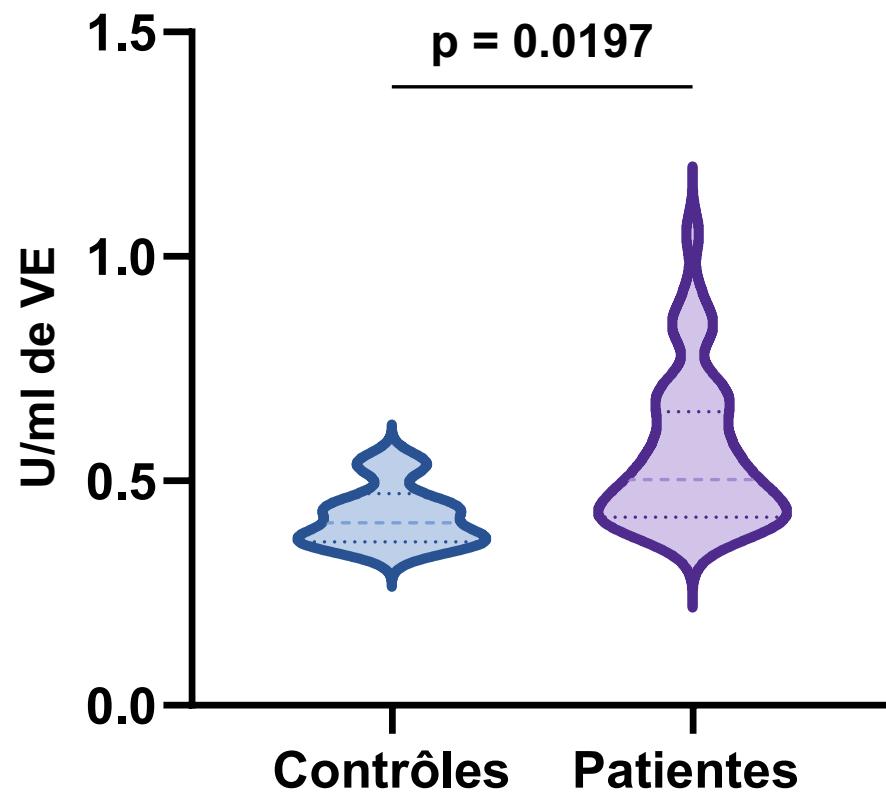


Arginase

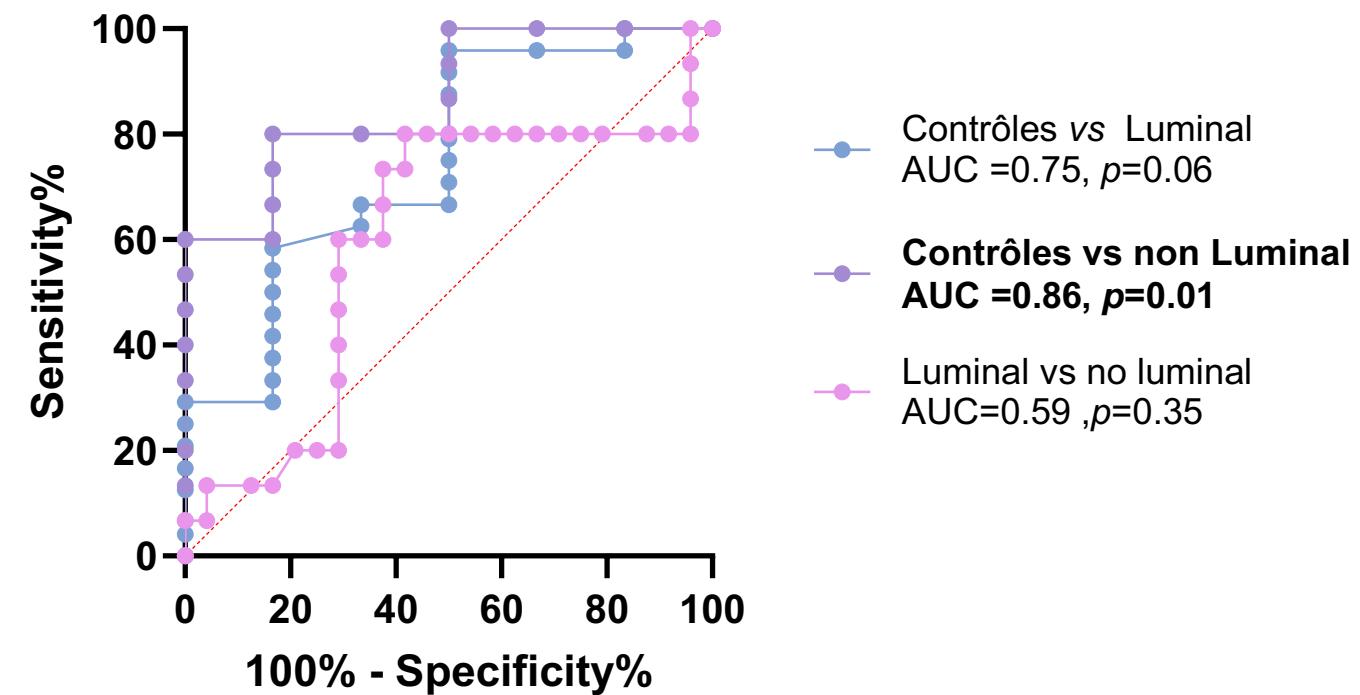
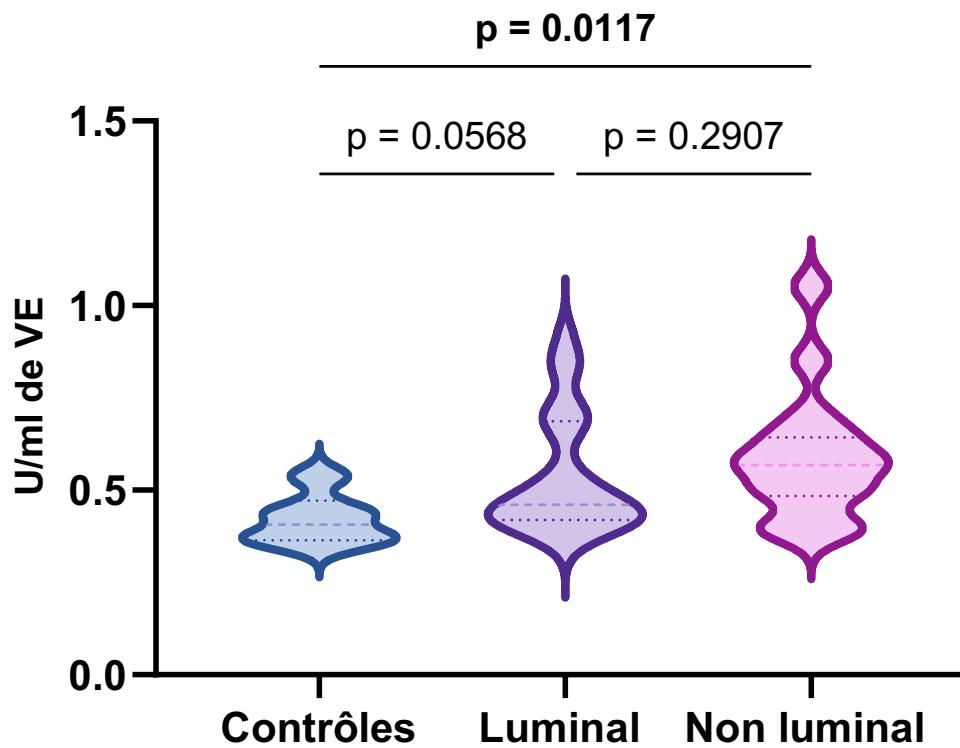


(Failla et al., 2024)

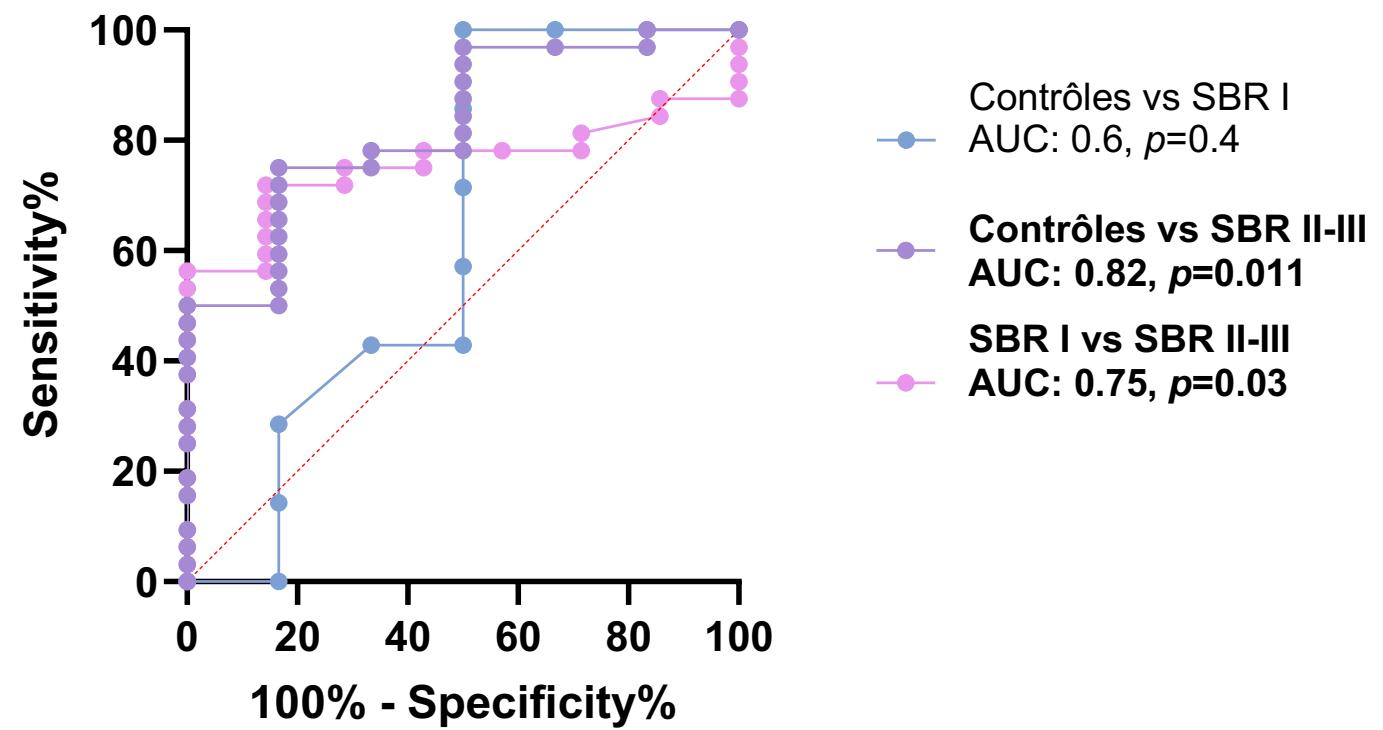
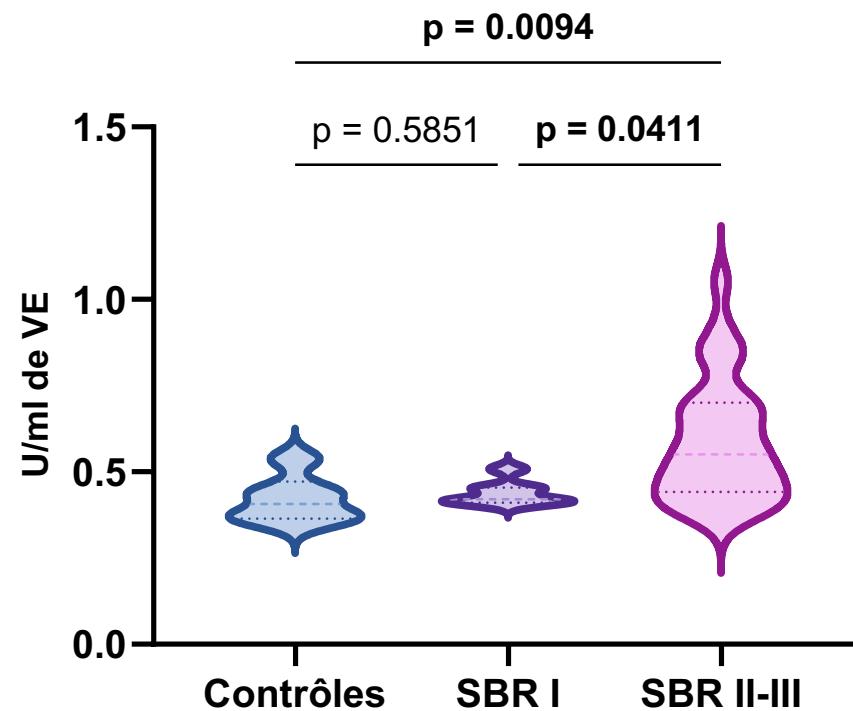
L'arginase vésiculaire et l'occurrence du cancer du sein

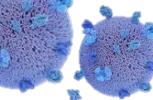


L'arginase vésiculaire et la sévérité du cancer du sein



L'arginase vésiculaire et la sévérité du cancer du sein





Arginase dans les VEs

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Small extracellular vesicles containing arginase-1 suppress T-cell responses and promote tumor growth in ovarian carcinoma

Malgorzata Czystowska-Kuzmicz, Anna Sosnowska, Dominika Nowis, Kavita Ramji, Marta Szajnik, Justyna Chlebowska-Tuz, Ewa Wolinska, Paweł Gaj, Magdalena Grazul, Zofia Pilch, Abdessamad Zerrouqi, Agnieszka Graczyk-Jarzynka, Karolina Soroczyńska, Szczerba Cierniak, Robert Kolturak, Esterházy Elichayev, Sławomir Gruca, Artur Stefan Jakub Golab

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Hepatocyte-secreted extracellular vesicles modify blood metabolome and endothelial function by an arginase-dependent mechanism

Felix Royo, Laura Moreno, Justyna Mleczko, Laura Palomo, Esperanza Gonzalez, Diana Cabrera, Angel Cogolludo, Francisco Perez Vizcaino, Sebastiaan van-Liempd & Juan M. Falcon-Perez

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Arginase-1+ Exosomes from Reprogrammed Macrophages Promote Glioblastoma Progression

by Juliana H. Azambuja 1,2,3 , Nils Ludwig 1,2 , Saigopalakrishna S. Yerneni 4 , Elizandra Braganhol 3 and Theresa L. Whiteside 1,2,5,*

¹ Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15213, USA

² UPMC Hillman Cancer Center, Pittsburgh, PA 15213, USA

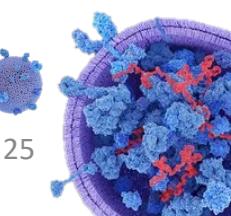
³ Programa de Pós-Graduação em Biociências, Universidade Federal de Ciências da Saúde de Porto Alegre (UFCSPA), Porto Alegre 90050-170, Brazil

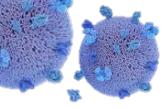
⁴ Department of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213, USA

⁵ Departments of Immunology and Otolaryngology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15213, USA

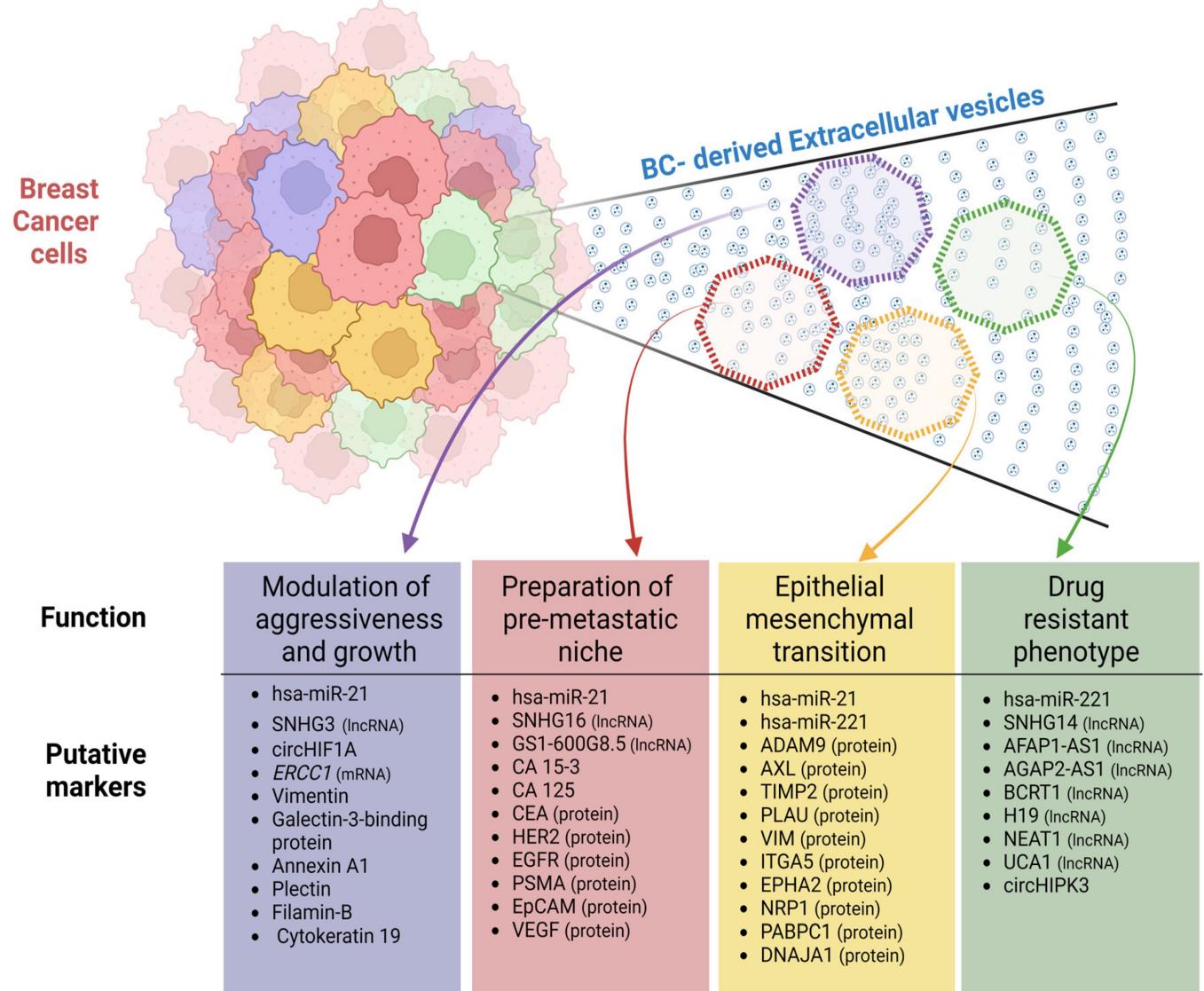
* Author to whom correspondence should be addressed.

Int. J. Mol. Sci. **2020**, *21*(11), 3990; <https://doi.org/10.3390/ijms21113990>

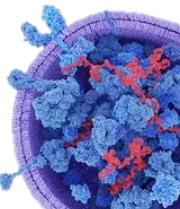


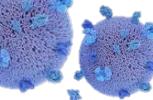


L'activité enzymatique de l'arginase vésiculaire pourrait être un potentiel biomarqueur moléculaire pour le diagnostic et le pronostic du cancer du sein



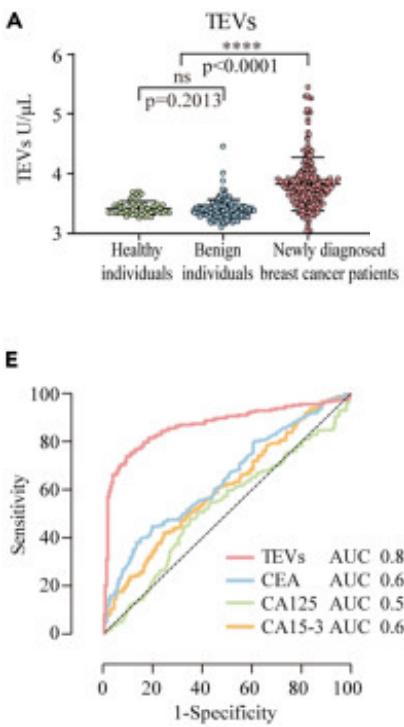
Arginase ?



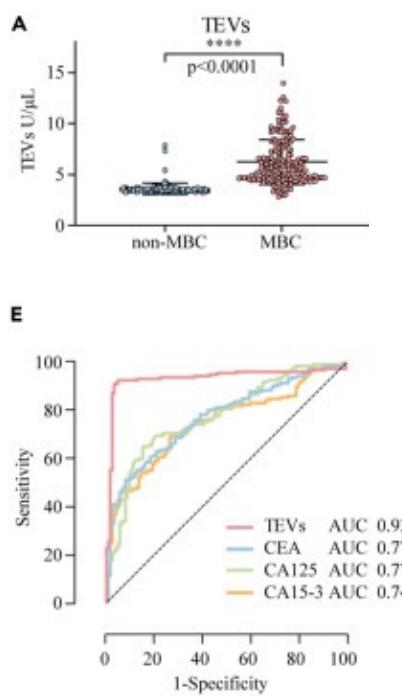


Applications diagnostiques des VE

Détection précoce

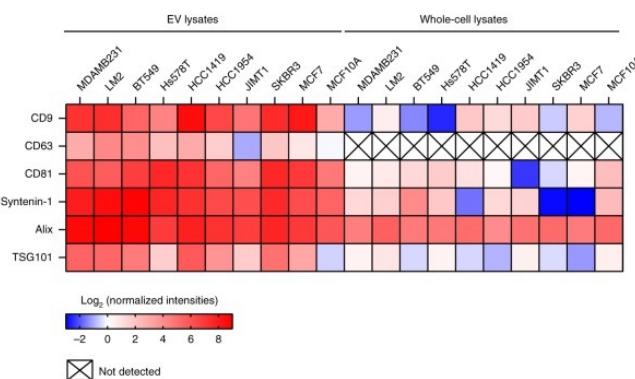


Surveillance métastatique



Sous-typage moléculaire

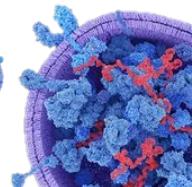
Corrélation avec les sous-types
Luminal A/B, HER2+, triple
négatif protéomique

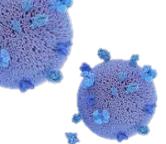


Surveillance de la réponse au traitement

La combinaison du profil de vésiculémie et de sphingolipides EV souligne le potentiel prometteur des EV en tant que biomarqueurs non invasifs pour la surveillance de la réponse précoce au traitement.

(Xu, F et al., 2024)
(Lee, Y et al., 2023)
(Zhou, X et al., 2024)
(Richard et al., 2024)





Search Details: Viewing 1-10 out of 69 studies for: Cancer | Other terms: Extracellular Vesicles

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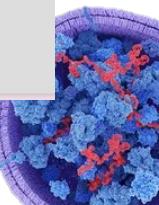
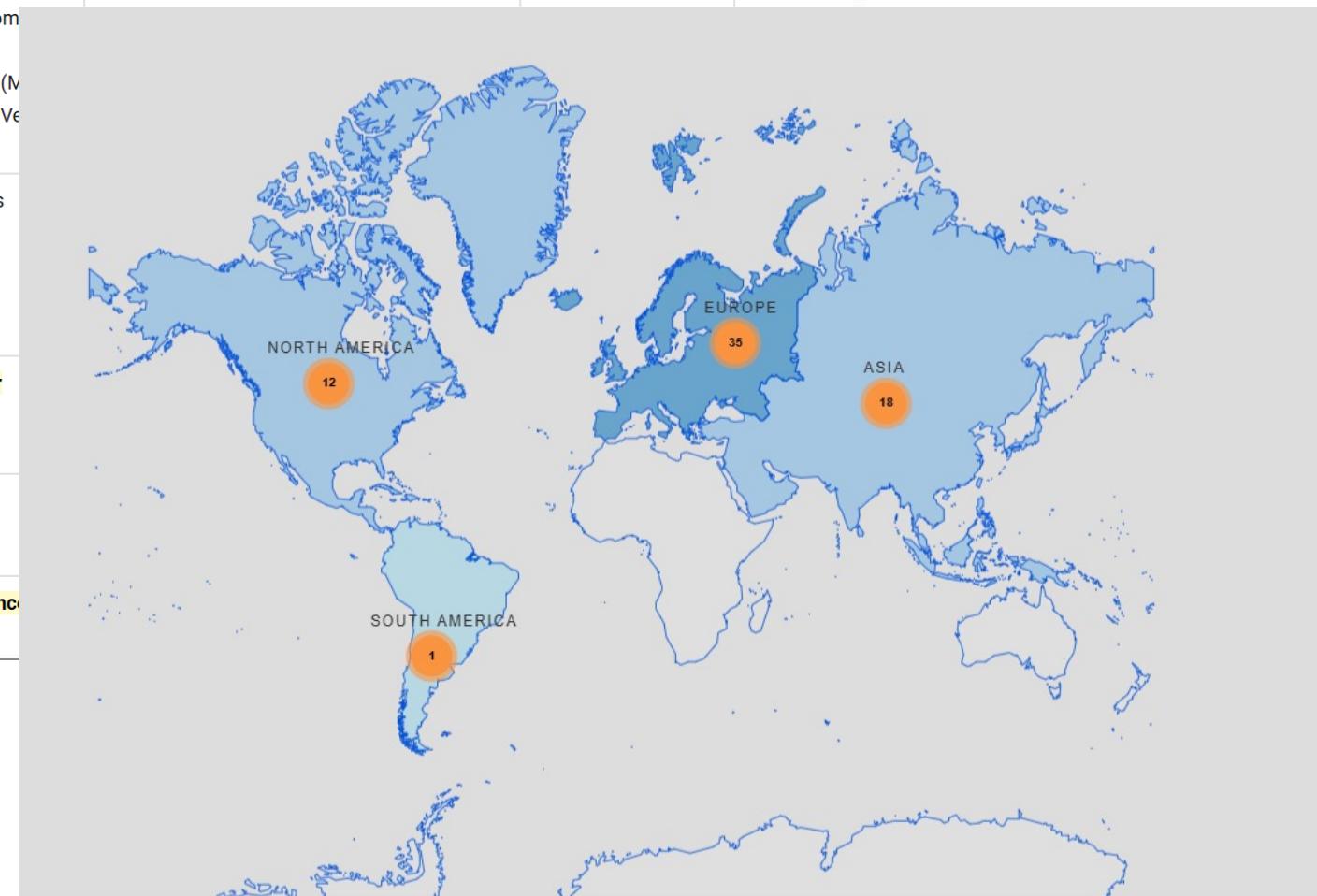
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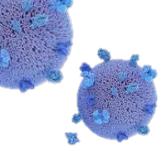
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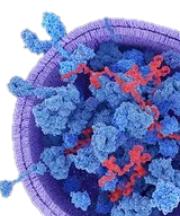
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	Study Title	NCT Number	Status	Conditions	Interventions	Sponsor	Study ID
1	Unraveling the Role of Extracellular Vesicles-driven Senescence in Myeloproliferative Neoplasms	NCT06798805	Active, not recruiting	<ul style="list-style-type: none">Essential Thrombocythemia (ET)Myelofibrosis (MF)Polycythemia Vera (PV)			
2	Liver Diseases: Extracellular Vesicles as Biomarkers New	NCT07185360	Not yet recruiting	<ul style="list-style-type: none">Liver Diseases			
3	Characterization of Extracellular Vesicles in Breast Cancer Patients	NCT05798338	Recruiting	<ul style="list-style-type: none">Breast Cancer			
4	Plasma Extracellular Vesicles in Meningioma Patients	NCT06104930	Recruiting	<ul style="list-style-type: none">Meningioma			
5	Contents of Circulating Extracellular Vesicles: Biomarkers in C	NCT04523389	Unknown status *	<ul style="list-style-type: none">Colorectal Cancer			





La combinaison du profil de vésiculémie et l'activité enzymatique de l'arginase vésiculaire souligne le potentiel prometteur des VEs en tant que biomarqueurs non invasifs et moléculaires pour le diagnostic et le pronostic du cancer du sein.



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attention

