

Publications (2020-2025)

Département 2 - Biophysique et Pharmacie Galénique

2025

L. Guyon, S. Tessier, M. Croyal, M. Gourdel, M. Lafont, F. Segeron, **L. Chabaud**, **H Gautier**, P Weiss, A Gaudin ; *Influence of Physico-Chemical Properties of Two Lipoxin Emulsion-Loaded Hydrogels on Pre-Polarized Macrophages: A Comparative Analysis ; Drug Delivery and Translational Research ; 2025 ; DOI : <https://doi.org/10.21203/rs.3.rs-3878914/v1>*

N. Gavira, C. Decante, N. Bouhsina, D. Rouleau, B. Miannay, N. Bronsard, A. David, R. Jossier, O. Gauthier, A. Hamel, J. Guicheux, **J. Clouet**, M. Fusellier ; *CT scan-based morphometric comparison of human and canine lumbar spine generates instrumental data for intervertebral disc percutaneous surgery ; Osteoarthritis and Cartilage Open. (2025); 7(1)*

2024

F. Nativel, S. Tollec, K-O. Sellal, M. Trossaërt, G. Grimandi ; *Use of clinical biological tests of haemostasis to evaluate topical haemostatics ; International Journal Laboratory Hematology, 2024, DOI: 10.1111/ijlh.14235*

P. Nizet, C. Grivel, D. Feldman, E. Brochet, C. Le Gouill, F. Lindenberg, E. Corbineau, N. Cormier, **J. Clouet**, E. Duchalais, J-F. Huon ; *Multi-professional development of a competency framework for patients with a Port-a-Cath (PAC) ; Journal of Oncology Pharmacy Practice, 2024;30(1):100-104.*

H. Genedy, P. Humbert, B. Laoulaou, B. Le Moal, M. Fusellier, C. Passirani, C. Le Visage, J. Guicheux, E. Lepeltier, **J. Clouet** ; *Micro-RNA-targeting nanomedicines for the treatment of intervertebral disc degeneration ; Advanced Drug Delivery Review, 2024;207:115214.*

E. Carrot, P. De Villemagne, P. Humbert, B. Rosa, B. Halgand, Y. Le Guennec, **J. Clouet**, V. Delplace, P. Weiss, F. Halary, J-Y. Hascoët, M. Fusellier, L. Vidal, J. Guicheux, C. Le Visage ; *Development and characterization of a bioprinted intervertebral disc. International Journal of Bioprinting, in press.*

J. Clouet ; *Allogenic bone marrow-derived mesenchymal stromal cell-based therapy for patients with chronic low back pain: a prospective, multicentre, randomised placebo controlled trial (RESPINE study) ; RESPINE consortium. Ann Rheum Dis. 2024 21;83(11):1572-1583.*

P. Nizet, N. Guillard, **L. Chabaud**, K-O. Sellal, C. Lejus-Bourdeau, D. Navas, E. Olivier, **J. Clouet**, F. Lindenberg, **F. Nativel** ; *Pediatric parenteral nutrition and hydroperoxide toxicity: Evaluation of the effectiveness of photoprotection medical devices Photochemistry and Photobiology ; 2024;100(5):1467-1474.*

P. Nizet, C. Grivel, D. Feldman, E. Brochet, C. Le Gouill, F. Lindenberg, E. Corbineau, N. Cormier, **J. Clouet**, E. Duchalais, J-F. Huon ; *Multi-professional development of a competency framework for patients with a Port-a-Cath (PAC) ; Journal of Oncology Pharmacy Practice, 2024;30(1):100-104.*

F. Avry, C. Rousseau, F. Kraeber-Bodere, **M. Bourgeois**, N. Arlicot ; *Potential of TSPO radioligands: bridging brain tumor diagnostics to the peripheries ; Biochimie 2024 ; 224 :114-119*

A. Lugat, N. Chouin, F. Chocteau, M. Esnault, S. Marionneau-Lambot, S. Gouard, E. Frampas, **A. Faivre-Chauvet, M. Bourgeois**, A. Morgenstern, F. Bruchertseifer, M. Chérel, F. Kraeber-Bodere, C. Ansquer, J. Gaschet ; *Survival impact of [²²⁵Ac]-DOTATOC alpha therapy in a preclinical model of pancreatic neuroendocrine tumor liver micrometastases* ; European Journal of Nuclear Medicine and Molecular Imaging 2024

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N. Lagneau, P. Tournier, **F. Nativel**, Y. Maugars, J. Guicheux, C. Le Visage, V. Delplace ; *Material-assisted cell therapy for osteoarthritis: harnessing cell-material interactions to control stem cell secretion* ; Biomaterials, 2023, volume 296, article 122091 ; doi.org/10.1016/j.biomaterials.2023.122091

F. Nativel, A. Smith, J. Boulestreau, C. Lepine, J. Baron, M. Marquis, C. Vignes, Y. Le Guennec, J. Veziers, J. Lesoeur, F. Loll, B. Halgand, D. Renard, J. Abadie, B. Legoff, F. Blanchard, O. Gauthier, C. Vinatier, A. des Rieux, J. Guicheux, C. Le Visage ; *Micromolding-based encapsulation of mesenchymal stromal cells in alginate for intraarticular injection in osteoarthritis* ; Materials Today Bio, 2023, volume 19, article 100581 ; doi.org/10.1016/j.mtbio.2023.100581

M. Ambrosino, **F. Nativel**, C. Boyer, N. Lagneau, F. Loll, B. Halgand, F. Djouad, D. Renard, A. Tessier, J. Guicheux, V. Delplace, C. Le Visage ; *Microencapsulation of mesenchymal stromal cells in covalent alginate hydrogels for cell therapy of osteoarthritis* ; BioRxiv, 2023 ; doi: <https://doi.org/10.1101/2023.11.27.568852>

P. Nizet, N. Guillard, **L. Chabaud**, K-O. Sellal, C. Lejus-Bourdeau, L. Simon, D. Navas, E. Olivier, **J. Clouet**, F. Lindenberg, **F. Nativel** ; *Pediatric parenteral nutrition and hydroperoxide toxicity : evaluation of the effectiveness of photoprotection medical devices* ; Photochemistry and Photobiology, 2023 ; DOI: 10.1111/php.13894

N. Bouhsina, L. Tur, J-B. Hardel, S. Madec, D. Rouleau, F. Etienne, J. Guicheux, **J. Clouet**, M. Fusellier ; *Quantitative assessment of canine lumbar disc degeneration using variable flip angle T1 mapping and multi-echo T2 and T2* mapping sequences: a prospective study* ; Veterinary Radiology & Ultrasound. (2023);64(5):864-872

A. Lugat, E. Frampas, Y. Toucheffeu, E. Mirallie, M. Lebras, H. Senellart, A. Rauscher, V. Fleury, L. Campion, V. Rhomer, O. Couturier, R. Lebtahi, F. Rouzet, P. Ruszniewski, F. Bodere, **M. Bourgeois**, C. Ansquer ; *Prospective multicentric assessment of ⁶⁸Ga-DOTANOC PET/CT in grade 1-2 GEP-NET* ; Cancers 2023; 15(2), 513

N. Lepareur, B. Ramée, **M. Mougin-Degraef, M. Bourgeois** ; *Clinical advances and perspectives in targeted radionuclide therapy* ; Pharmaceutics 2023 ; 15(6) :1733

J. Fantin, J. Toutain, E.A Pérès, B. Bernay, S.M. Mehani, C. Helaine, **M. Bourgeois**, C. Brunaud, L. Chazalviel, J. Pontin, A. Corroyer-Dulmont, S. Valable, M. Chérel, M. Bernaudin ; *Assessment of hypoxia and oxidative-related changes in a lung-derived brain metastasis model by [⁶⁴Cu]-[Cu(ATSM)] PET and proteomic studies* ; European Journal of Nuclear Medicine and Molecular Imaging Res. 2023; 13(1): 102

O.F. Couturier, O. Medhioub, **M. Bourgeois**, F. Lacoëuille ; *Prostate Specific Membran Antigen (PSMA) and its radiolabeled ligands for nuclear medicine* ; Médecine Nucléaire 2023 ; 47 :241-246

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H. Moussi, P. Weiss, J. Le Bideau, **H. Gautier** and B. Charbonnier ; *Injectable macromolecule-based calcium phosphate bone substitutes* ; Materials Advances 2022, 3, 6125-6141, DOI: [10.1039/D2MA00410K](https://doi.org/10.1039/D2MA00410K)

N. Bouhsina, C. Decante, J-B. Hardel, S. Madec, J. Abadie, A. Hamel, C. Le Visage, J. Lesoeur, J. Guicheux, **J. Clouet**, M. Fusellier ; *Comparison of MR T1, T2 and T2* mapping using two drawing approaches for the assessment of lumbar disc degeneration in an ovine model* ; Scientific Reports. 2022 30;12(1):5398. Co-last author.

B. Le Moal, M. Fusellier, B. Halgand, C. Le Visage, J-P Benoit, C. Passirani, J. Guicheux, E. Lepeltier, **J. Clouet** ; *Lipid nanocapsules for intracellular delivery of microRNA: A first step towards intervertebral disc degeneration therapy* ; International Journal of Pharmaceutics. 2022;25:624:121941.

E. Vene, K. Jarnouen, C. Ribault, M. Vlach, Y. Verres, **M. Bourgeois**, N. Lepareur, S. Cammas-Marion, P. Loyer ; *Circumsporozoite protein of Plasmodium berghei – and Georgeria virus A – derived peptides trigger efficient cell internalization of bioconjugates and functionalized poly(ethylene glycol)-b-poly(benzyl malate)-based nanoparticles in human hepatoma cells* ; Pharmaceutics 2022 ; 14(4) :804

A. Faivre-Chauvet, C. Bourdeau, **M. Bourgeois** ; *Radiopharmaceutical good practices: regulation between hospital and industry* ; Frontiers in Nuclear Medicine 2022; 2: 01-05

A. Lugat, M. Cherel, C. Rousseau, F. Kraeber-Bodere, C. Bodet-Milin, C. Bailly, **M. Bourgeois** ; *Immuno-PET: design options and clinical proof-of-concept* ; Frontiers in Nuclear Medicine 2022; 9: 01-11

N. Lepareur, **M. Bourgeois** ; *Receptor-specific radionuclide therapy* ; Handbook of cancer immunology Springer 2022 pp1-32

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K. Flegeau, O. Gauthier, G. Rethore, F. Autrusseau, A. Schaefer, J. Lesoeur, J. Vezier, A. Brésin, **H. Gautier*** and P Weiss*; *Injectable Silanized Hyaluronic Acid Hydrogel/Biphasic Calcium Phosphate Granule Composites with Improved Handling and Biodegradability Promote Bone Regeneration in Rabbits* ; Biomaterials Science, 2021, 9, 5640-5651, <https://doi.org/10.1039/D1BM00403D>

C. Decante, **J. Clouet**, A. Hamel, L. Le Fournier, O. Gauthier, D. Rouleau, J. Lesoeur, B. Halgand, C. Le Visage, J. Guicheux, M. Fusellier ; *Consequences of transpedicular and transannular approaches on intervertebral disc environment: results from longitudinal follow up in an ovine model* ; Eur Spine J (2021) ;30(2) :585-595.

Y. Toucheux, C. Bailly, E. Frampas, T. Eugène, C. Rousseau, **M. Bourgeois**, **A. Faivre Chauvet**, A. Rauscher, D. Masson, A. David, E. Cerato, T. Carlier, R. Sharkey, D. Goldenberg, J. Barbet, F. Kraeber-Bodere, C. Bodet-Milin ; *Promising clinical performance of pretargeted immune-PET with an anti-CEA bispecific antibody and gallium-68 IMP-288 peptide for imaging colorectal cancer metastases: a pilot study* ; European Journal of Nuclear Medicine and Molecular Imaging 2021; 48(3): 874-882

C. Bodet-Milin, **A. Faivre-Chauvet**, T. Carlier, C. Ansquer, A. Rauscher, E. Frampas, F. Toulgoat, D. Masson, **M. Bourgeois**, E. Cerato, V. Rohmer, O. Couturier, D. Druil, D.M. Goldenberg, R.M. Sharkey, J. Barbet, F. Kraeber-Bodere ; *Anti-CEA pretargeted immuno-PET shows higher sensitivity than DOPA-PET/CT to detect relapsing metastatic medullary thyroid carcinoma: Post-hoc analysis of the iPET-MTC study* ; Journal of Nuclear Medicine 2021; 62(9):1221-1227

J. Delage, S. Gnesin, J. Prior, J. Barbet, P. Le Saec, S. Marionneau-Lambot, S. Gouard, M. Cherel, **M. Bourgeois**, N. Schaefer, D. Vierterl, J. Fierle, S. Dunn, **A. Faivre-Chauvet** ; *[⁶⁴Cu]Cu-1C1m-Fc, a new specific tool for TEM-1 PET imaging and [¹⁷⁷Lu]Lu-1C1m-Fc therapy efficacy and safety prediction ?* ; Cancers (Basel) 2021 ;13(23) :5936

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F. Nativel, F. Barge, N. Prevost, A. Solnon, J-B. Gourraud, V. Probst, **J. Clouet**, G. Lande, G. Grimandi ; *From electrophysiological exploration to management of heart arrhythmias: economic analysis of practices in a high-volume French hospital over two different time periods* ; Les Annales Pharmaceutiques Françaises, 2020 ; DOI: 10.1016/j.pharma.2020.10.004

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L. Frapin, **J. Clouet**, C. Chedeville, C. Moraru, E. Samarut, N. Henry, M. André, E. Bord, B. Halgand, J. Lesoeur, M. Fusellier, J. Guicheux, C. Le Visage ; *Controlled release of biological factors for endogenous progenitor cells migration and intervertebral disc extracellular matrix remodeling* ; Biomaterials (2020);253:120107.

C. Bailly, C. Bodet-Milin, C. Rousseau, F. Guérard, T. Carlier, L. Ferrer, N. Chouin, J. Gaschet, F. Haddad, M. Chérel, J. Barbet J., Kraeber-Bodéré , **M. Bourgeois** ; *New advances in radioimmunotherapy for the treatment of cancers* ; Cancer immunology 2020; 563-585.

A. Vidal, C. Bourdeau, M. Frindel, T. Garcia, F. Haddad, **A. Faivre-Chauvet**, **M. Bourgeois** ; *ARRONAX Cyclotron: setting-up of in-house hospital radiopharmacy* ; BioMed Research International 2020; Mar 10: 1572841

F. Etienne, M. Berthaud, F. Nguyen, K. Bernardeau, C. Maurel, M. Diab, J. Abadie, V. Gouilleux-Gruart, **M. Bourgeois**, N. Chouin, C. Ibisch, F. Davodeau ; *SPECT-CT imaging of dog spontaneous diffuse large B-cell lymphoma targeting CD22 for the implementation of a relevant preclinical model for human* ; Frontiers in Oncology 2020; 10(20)

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