

Liste de publications de Nathalie Wauthoz

Liste établie en fonction du [Guide du proposant FNRS Année 2025](#)

1. Ouvrages publiés en tant qu'auteur, co-auteur ou éditeur

1. Rosiere, R., Amighi, K., & **Wauthoz, N.** (2019). *Nanotechnology-based targeted drug delivery systems for lung cancer: Nanomedicine-based inhalation treatments for lung cancer*.
<https://dipot.ulb.ac.be/dspace/bitstream/2013/299261/4/BookRosiere.pdf>
<https://dipot.ulb.ac.be/dspace/bitstream/2013/299261/3/BookRosiere.pdf>
2. **Wauthoz, N.**, & Amighi, K. (2015). *Pulmonary drug delivery : Advances and Challenges: Formulation strategies for pulmonary drug delivery of poorly soluble drugs*. Wiley.
3. **Wauthoz, N.** (2014). *La chimiothérapie inhalée pour combattre les tumeurs pulmonaires: Développement de poudres sèches pour inhalation à base de témozolomide*.

2. Chapitres d'ouvrages ou participation à un ouvrage collectif, en tant qu'auteur ou co-auteur de la partie

1. **Wauthoz, N.**, & Amighi, K. (2015). Formulation strategies for pulmonary delivery of poorly soluble drugs. In *Pulmonary Drug Delivery: Advances and Challenges* (pp. 87-121). wiley. doi:10.1002/9781118799536.ch5
<https://dipot.ulb.ac.be/dspace/bitstream/2013/320371/3/C05.pdf>

3. Articles publiés dans des journaux à comité de lecture

1. Ravon, F., Berns, E., Lambert, I., Rens, C., Adnet, P.-Y., Kiass, M., Megalizzi, V., Delporte, C., Baulard, A., Mathys, V., Boarbi, S., **Wauthoz, N.**, & Fontaine, V. (2025). Assessment of Innovative Dry Powders for Inhalation of a Synergistic Combination Against Mycobacterium tuberculosis in Infected Macrophages and Mice. *Pharmaceutics*, 17(6), 705. doi:10.3390/pharmaceutics17060705
<https://dipot.ulb.ac.be/dspace/bitstream/2013/391208/3/Ravon2025.pdf>
<https://dipot.ulb.ac.be/dspace/bitstream/2013/391208/4/Ravon2025annexe.pdf>
2. Frangville, P., Tanwar, A. S., Kumar, S., Gelbcke, M., **Wauthoz, N.**, Basov, S., Van Bael, M. J., Van Hecke, K., & Meyer, F. (2024). Sensing diversity in halogen-bonded multi-stimuli responsive materials: Light, pH, magnetism, and electron-rich species. *Materials Today Chemistry*, 40, 102234. doi:10.1016/j.mtchem.2024.102234
<https://dipot.ulb.ac.be/dspace/bitstream/2013/376960/3/a.pdf>
3. Xiroudaki, S., Sabbatini, S., Pecoraro, C., Cascioferro, S., Diana, P., **Wauthoz, N.**, Antognelli, C., Monari, C., Giovagnoli, S., & Schoubben, A. (2023). Development of a new indole derivative dry powder for inhalation for the treatment of biofilm-associated lung infections. *International journal of pharmaceutics*, 631, 122492.
<https://dipot.ulb.ac.be/dspace/bitstream/2013/371027/3/Xiroudaki.pdf>

4. Davenne, T., Percier, P., Larbanoix, L., Moser, M., Leo, O., Meylan, E., Goriely, S., Gérard, P., **Wauthoz, N.**, Laurent, S., Amighi, K., & Rosiere, R. (2022). Inhaled dry powder cisplatin increases antitumour response to anti-PD1 in a murine lung cancer model. *Journal of controlled release*, 353, 317-326. doi:10.1016/j.jconrel.2022.11.055
https://dipot.ulb.ac.be/dspace/bitstream/2013/352307/1/doi_335951.pdf
5. Ravon, F., Menchi, E., Lambot, C., Al Kattar, S., Chraibi, S., Remmelink, M., Fontaine, V., & **Wauthoz, N.** (2022). In vitro and in vivo local tolerability of a synergistic anti# tuberculosis drug combination intended for pulmonary delivery. *Journal of applied toxicology*, 1-14. doi:10.1002/jat.4381
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<https://dipot.ulb.ac.be/dspace/bitstream/2013/349199/4/Paper.pdf>
6. Menchi, E., El Khattabi, C., Pochet, S., Denis, O., Amighi, K., & **Wauthoz, N.** (2022). Optimization of Long-Acting Bronchodilator Dose Ratios Using Isolated Guinea Pig Tracheal Rings for Synergistic Combination Therapy in Asthma and COPD. *Pharmaceuticals*, 15(8). doi:https://doi.org/10.3390/ph15080963
<https://dipot.ulb.ac.be/dspace/bitstream/2013/346610/3/pharmaceuticals-15-00963.pdf>
7. Gevenois, P., De Pauw, P., Schoonooghe, S., Delporte, C., Sebti, T., Amighi, K., Muyldermans, S., & **Wauthoz, N.** (2021). Development of Neutralizing Multimeric Nanobody Constructs Directed against IL-13: From Immunization to Lead Optimization. *Journal of immunology (Baltimore, Md. : 1950)*, 207(10), 2608-2620. doi:10.4049/jimmunol.2100250
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8. Chraibi, S., Rosiere, R., De Prez, E., Gérard, P., Antoine, M.-H., Langer, I., Nortier, J., Remmelink, M., Amighi, K., & **Wauthoz, N.** (2021). Preclinical tolerance evaluation of the addition of a cisplatin-based dry powder for inhalation to the conventional carboplatin-paclitaxel doublet for treatment of non-small cell lung cancer. *Biomedicine & pharmacotherapy*, 139, 111716. doi:10.1016/j.biopha.2021.111716
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9. Chraibi, S., Rosiere, R., Larbanoix, L., Gérard, P., Hennia, I., Laurent, S., Vermeersch, M., Amighi, K., & **Wauthoz, N.** (2021). The combination of an innovative dry powder for inhalation and a standard cisplatin-based chemotherapy in view of therapeutic intensification against lung tumours. *European journal of pharmaceuticals and biopharmaceutics*, 164, 93-104. doi:10.1016/j.ejpb.2021.04.018
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10. Chraibi, S., Rosiere, R., De Prez, E., Antoine, M.-H., Remmelink, M., Langer, I., Nortier, J., Amighi, K., & **Wauthoz, N.** (2021). Pulmonary and renal tolerance of cisplatin-based regimens combining intravenous and endotracheal routes for lung cancer treatment in mice. *International journal of pharmaceuticals*, 599, 120425. doi:10.1016/j.ijpharm.2021.120425
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11. **Wauthoz, N.**, Rosiere, R., & Amighi, K. (2020). Inhaled cytotoxic chemotherapy: clinical challenges, recent developments, and future prospects. *Expert opinion on drug delivery*. doi:10.1080/17425247.2021.1829590

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 13. Rosiere, R., Berghmans, T., De Vuyst, P., Amighi, K., & **Wauthoz, N.** (2019). The position of inhaled chemotherapy in the care of patients with lung tumours: clinical feasibility and indications according to recent pharmaceutical progresses. *Cancers*, 11(329), 1-13. doi:10.3390/cancers11030329
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 14. Albertini, B., Mathieu, V., Iraci, N., Van Woensel, M., Schoubben, A., Donnadio, A., Greco, S., Ricci, M., Temperini, A., Blasi, P., & **Wauthoz, N.** (2019). Tumor Targeting by Peptide-Decorated Gold Nanoparticles. *Molecular pharmaceutics*, 16(6), 2430-2444. doi:10.1021/acs.molpharmaceut.9b00047
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 15. Salade, L., **Wauthoz, N.**, Goole, J., & Amighi, K. (2019). How to characterize a nasal product. The state of the art of in vitro and ex vivo specific methods. *International journal of pharmaceutics*, 561, 47-65. doi:10.1016/j.ijpharm.2019.02.026
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 16. **Wauthoz, N.**, Hennia, I., Ecenarro, S., & Amighi, K. (2018). Impact of capsule type on aerodynamic performance of inhalation products: A case study using a formoterol-lactose binary or ternary blend. *International journal of pharmaceutics*, 553(1-2), 47-56. doi:10.1016/j.ijpharm.2018.10.034
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 17. Salade, L., **Wauthoz, N.**, Vermeersch, M., Amighi, K., & Goole, J. (2018). Chitosan-coated liposome dry-powder formulations loaded with ghrelin for nose-to-brain delivery. *European journal of pharmaceutics and biopharmaceutics*, 129, 257-266. doi:10.1016/j.ejpb.2018.06.011
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 18. Rosiere, R., Hureaux, J., Levet, V., Amighi, K., & **Wauthoz, N.** (2018). La chimiothérapie inhalée – partie 2 : clinique et applications potentielles. *Revue des maladies respiratoires*, 35(4), 378-389. doi:10.1016/j.rmr.2018.02.002
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5. Présentations orales dans des conférences avec comité scientifique de sélection

1. Guilao, M. G. M., **Wauthoz, N.**, Bah, T. V. B. T., Atchade, C., Traore, T., Souard, F., Sombié, C., Semdé, R., & Balde, E. S. (2025). *Physicochemical and rheological characterization of new local excipient powders as adjuvant for oral formulations*. Paper session presented at Forum des sciences pharmaceutiques, BSPS (22: 31st March-1st April 2025: La-roche-en-Ardenne, Belgium).
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2. Abidli, I., Burtea, C., Laurent, S., Amighi, K., **Wauthoz, N.**, & Vanderbist, F. (2025). *Assessment of antibiofilm activity against Pseudomonas aeruginosa: A focus on N-acetylcysteine, lutein, and quercetin*. Paper session presented at Forum of Pharmaceutical Sciences (22: 31st March to 1st April 2025: La Roche-en-Ardenne, Belgium).
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3. Bui, L., Menchi, E., Blockx, M.-C., Olivier, D., Delporte, C., Amighi, K., & **Wauthoz, N.** (2025). *PHARMACOKINETIC EVALUATION OF CONTROLLED RELEASE DRY POWDERS FOR INHALATION BASED ON BUDESONIDE IN RATS*. Paper session presented at Forum des sciences pharmaceutiques (22: 31 March-1 april 2025: La-roche-en-ardenne, Belgium).
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8. Bui, L., Menchi, E., Blockx, M.-C., Olivier, D., Delporte, C., Amighi, K., & **Wauthoz, N.** (2024). *Pharmacokinetic evaluation of controlled release dry powders for inhalation based on budesonide in healthy rats*. Paper session presented at Drug Delivery to the lungs (2024: 11-14th December 2024: edinburgh).

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