

Liste de publications de Nathalie Wauthoz

Ouvrages publiés à titre de seul auteur

2014

Wauthoz, N. (2014). *La chimiothérapie inhalée pour combattre les tumeurs pulmonaires: Développement de poudres sèches pour inhalation à base de témozolomide.*

Ouvrages publiés en collaboration

2019

Rosiere, R., Amighi, K., & Wauthoz, N. (2019). *Nanotechnology-based targeted drug delivery systems for lung cancer: Nanomedicine-based inhalation treatments for lung cancer.*

2015

Wauthoz, N., & Amighi, K. (2015). *Pulmonary drug delivery : Advances and Challenges: Formulation strategies for pulmonary drug delivery of poorly soluble drugs.* Wiley.

Parties d'ouvrages collectifs

2015

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

Articles dans des revues avec comité de lecture

2024

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

2023

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.

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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

Ravon, F., Menchi, E., Lambot, C., Al Kattar, S., Chraibi, S., Rimmelink, 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

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

2021

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

Chraibi, S., Rosiere, R., De Prez, E., Gérard, P., Antoine, M.-H., Langer, I., Nortier, J., Rimmelink, 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

Chraibi, S., Rosiere, R., Larbanoix, L., Gérard, P., Hennis, 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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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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Nieto-Orellana, A., Li, H., Rosiere, R., Wauthoz, N., Williams, H., Monteiro, C. J., Bosquillon, C., Childerhouse, N., Keegan, G., Coghlan, D., Mantovani, G., & Stolnik, S. (2019). Targeted PEG-poly(glutamic acid) complexes for inhalation protein delivery to the lung. *Journal of controlled release*, 316, 250-262. doi:10.1016/j.jconrel.2019.10.012

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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 pharmaceuticals*, 16(6), 2430-2444. doi:10.1021/acs.molpharmaceut.9b00047

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 pharmaceuticals*, 561, 47-65. doi:10.1016/j.ijpharm.2019.02.026

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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 pharmaceuticals*, 553(1-2), 47-56. doi:10.1016/j.ijpharm.2018.10.034

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 pharmaceuticals and biopharmaceuticals*, 129, 257-266. doi:10.1016/j.ejpb.2018.06.011

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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Wauthoz, N., Hennia, I., Dejaegher, B., Ecenarro, S., & Amighi, K. (2017). Proposed algorithm for healthcare professionals based on product characteristics and in vitro performances in different use conditions using formoterol-based marketed products for inhalation. *International journal of pharmaceuticals*, 530(1-2), 415-429. doi:10.1016/j.ijpharm.2017.07.021

Cieslak, A., Wauthoz, N., Orellana, A. N., Lautram, N., Béjaud, J., Hureaux, J., Lafleur, M., Benoit, J.-P., Salomon, C. J., & Bastiat, G. (2017). Stealth nanocarriers based sterosomes using PEG post-insertion process. *European journal of pharmaceuticals and biopharmaceuticals*, 115, 31-38. doi:10.1016/j.ejpb.2017.02.008

Van Woensel, M., Mathivet, T., Wauthoz, N., Rosiere, R., Garg, A. D., Agostinis, P., Mathieu, V., Kiss, R., Lefranc, F., Boon, L., Belmans, J., Van Gool, S. W., Gerhardt, H., Amighi, K., & De Vleeschouwer, S. (2017). Sensitization of glioblastoma tumor micro-environment to chemo- and immunotherapy by Galectin-1 intranasal knock-down strategy. *Scientific Reports*, 27(1), 1217. doi:10.1038/s41598-017-01279-1

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Labranche, N., Youl, E., El Khattabi, C., Dewachter, L., Wauthoz, N., Delporte, C., Berkenboom, G., & Pochet, S. (2016). Rosuvastatin and vascular oxidative stress induced by diesel exhaust particles. *Acta cardiologica*, 71(5), 565 - 572. doi:10.2143/AC.71.5.3167500

Van Woensel, M., Wauthoz, N., Rosiere, R., Mathieu, V., Kiss, R., Lefranc, F., Steelant, B., Van Gool, S. W., Mathivet, T., Gerhardt, H., Amighi, K., & De Vleeschouwer, S. (2016). Development of siRNA-loaded chitosan nanoparticles targeting Galectin-1 for the treatment of glioblastoma multiforme via intranasal administration. *Journal of controlled release*, 227, 71-81. doi:10.1016/j.jconrel.2016.02.032

Ianni, F., Schoubben, A., Montesano, D., Wauthoz, N., Cossignani, L., Sardella, R., & Natalini, B. (2016). Quantitative assay of capreomycin oleate levels in a drug formulation for inhalation with a fully validated HPLC method. *Journal of pharmaceutical and biomedical analysis*, 120, 413-418. doi:10.1016/j.jpba.2015.11.040

Rosiere, R., Van Woensel, M., Mathieu, V., Langer, I., Mathivet, T., Vermeersch, M., Amighi, K., & Wauthoz, N. (2016). Development and evaluation of well-tolerated and tumor-penetrating polymeric micelle-based dry powders for inhaled anti-cancer chemotherapy. *International journal of pharmaceutics*. doi:10.1016/j.ijpharm.2016.01.073

Levet, V., Rosiere, R., Merlos, R., Fusaro, L., Berger, G., Amighi, K., & Wauthoz, N. (2016). Development of Controlled-Release Cisplatin Dry Powders for Inhalation against Lung Cancers. *International journal of pharmaceutics*, 515(1-2), 209-220. doi:10.1016/j.ijpharm.2016.10.019

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Rosiere, R., Gelbcke, M., Mathieu, V., Van Antwerpen, P., Amighi, K., & Wauthoz, N. (2015). New dry powders for inhalation containing temozolomide-based nanomicelles for improved lung cancer therapy. *International journal of oncology*, 47(3), 1131. doi:10.3892/ijo.2015.3092

Wauthoz, N., Bastiat, G., Moysan, E., Cieslak, A., Kondo, K., Zandecki, M., Moal, V., Rousselet, M.-C., Hureauux, J., & Benoit, J.-P. (2015). Safe lipid nanocapsules-based gel technology to target lymph nodes and combat mediastinal metastases from an orthotopic

non-small-cell lung cancer model in SCID-CB17 mice. *Nanomedicine*, 11(5), 1237-1245. doi:10.1016/j.nano.2015.02.010

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Wauthoz, N., & Amighi, K. (2014). Phospholipids in pulmonary drug delivery. *European journal of lipid science and technology*, 116(9), 1114-1128. doi:10.1002/ejlt.201300368

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Mathieu, V., Wauthoz, N., Lefranc, F., Niemann, H., Amighi, K., Kiss, R., & Proksch, P. (2013). Cyclic versus Hemi-Bastadins. Pleiotropic Anti-Cancer Effects: from Apoptosis to Anti-Angiogenic and Anti-Migratory Effects. *Molecules*, 18(3), 3543-3561. doi:10.3390/molecules18033543

Van Woensel, M., Wauthoz, N., Rosiere, R., Amighi, K., Mathieu, V., Lefranc, F., Van Gool, S. W., & De Vleeschouwer, S. (2013). Formulations for Intranasal Delivery of Pharmacological Agents to Combat Brain Disease: A New Opportunity to Tackle GBM? *Cancers (Basel)*, 5(3), 1020-1048. doi:10.3390/cancers5031020

Lallemand, B., Ouedraogo, M., Wauthoz, N., Lamkami, T., Mathieu, V., Jabin, I., Amighi, K., Kiss, R., Dubois, J., & Goole, J. (2013). Synthesis and plasma pharmacokinetics in CD-1 mice of a 18#-glycyrrhetic acid derivative displaying anti-cancer activity. *Journal of Pharmacy and Pharmacology*, 65(3), 402-410. doi:10.1111/j.2042-7158.2012.01603.x

2012

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Lamoral-Theys, D., Pottier, L., Kerff, F., Dufrasne, F., Proutiere, F., Wauthoz, N., Neven, P., Ingrassia, L., Van Antwerpen, P., Lefranc, F., Gelbcke, M., Pirotte, B., Kraus, J.-L., Neve, J., Kornienko, A., Kiss, R., & Dubois, J. (2010). Simple di- and trivanillates exhibit cytostatic properties toward cancer cells resistant to pro-apoptotic stimuli. *Bioorganic & medicinal chemistry*, 18(11), 3823-3833. doi:10.1016/j.bmc.2010.04.047

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Communications publiées lors de congrès ou colloques nationaux et internationaux

A paraître

Wauthoz, N., Chraibi, S., Davenne, T., Gerard, P., Rosiere, R., & Amighi, K. (2023). Evaluation of Tumour Exposure following the Administration of an Innovative Cisplatin Dry Powder for Inhalation at Different Dose Levels and Regimens. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*.

2023

Davenne, T., Lehebel, P., Larbanoix, L., Moser, M., Oberdan, L., Meylan, E., Wauthoz, N., Goriely, S., Amighi, K., & Rosiere, R. (2023). Inhaled cisplatin dry powder combined with anti-PD1 induces anti-tumour immune-response in lung cancer. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*,(36), 92.

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Menchi, E., El Khattabi, C., Denis, O., Pochet, S., Amighi, K., & Wauthoz, N. (2022). Determination of an appropriate dose ratio of a synergistic combination of long-acting bronchodilators for the maintenance treatment of asthma and COPD. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, Vol. 35(35), A1-A20 , 1-20. doi:10.1089/jamp.2022.ab01.abstracts

Ravon, F., Menchi, E., Rimmelink, M., Chraibi, S., Fontaine, V., & Wauthoz, N. (2022). In vitro and in vivo evaluations of the tolerance of a new and innovative anti-tuberculosis drug combination by inhalation. *Abstracts from The Aerosol Society Drug Delivery to the Lungs 32*. Vol. 35(35), A1-A20 (pp. 1-20) Drug Delivery to the Lungs(32: 8-10th December: Virtual). doi:10.1089/jamp.2022.ab01.abstracts

2019

Chraibi, S., Spires, J. J., Amighi, K., & Wauthoz, N. (2019). In silico Prediction of Pharmacokinetic Parameters after Cisplatin Intravenous and Endotracheal Administration Using GastroPlus TM Software. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*,(32), 2 , 28-30. doi:10.1089/jamp.2019.ab01.abstracts

2018

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2018). Impact of the capsule type on the aerodynamic performances of a fluticasone-based dry powder under optimal and suboptimal inhalation airflows. *Abstract book of DDL28*. Vol. 29 (3 ed., p. 6) Drug Delivery to the Lung(28: 6-8 december 2017: Edinburg).

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Rosiere, R., Amighi, K., & Wauthoz, N. (2015). New Dry Powders for Inhalation Containing Chitosan Derivative-Coated Solid Lipid Nanoparticles for Targeted Delivery to Lung Cancer Cells. In R. R. N. Dalby, P. R. Byron, J. Peart, J. D. Suman, P. M. Young, & D.

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Rosiere, R., Wauthoz, N., Van Antwerpen, P., Gelbcke, M., & Amighi, K. (2014). Development of Folate Receptor-Targeted Nanoparticles Containing Temozolomide for Lung Cancer Therapy by Dry Powder Inhalation. In R. R. N. Dalby, P. R. Byron, J. Peart, S. J. Farr, J. D. Suman, P. M. Young, & D. Traini (Eds.), *RDD 2014 Puerto Rico* (pp. 609-612). (book 3). USA: Virginia Commonwealth University.

2013

Duret, C., Wauthoz, N., Rosiere, R., Sebti, T., Vanderbist, F., & Amighi, K. (2013). Prophylactic Efficacy of Inhaled Itraconazole-Mannitol Dried Solid Dispersion Against Invasive Pulmonary Aspergillosis. In R. R. N. Dalby, P. R. Byron, J. Peart, J. D. Suman, P. M. Young, & D. Traini (Eds.), *RDD Europe 2013* (pp. 383-388). (book 2). USA: Virginia Commonwealth University.

2012

Duret, C., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2012). Itraconazole Nanoparticle-based Dry Powders for Inhalation. In R. R. N. Dalby, P. R. Byron, J. Peart, J. D. Suman, S. J. Farr, & P. M. Young (Eds.), *RDD 2012 Arizona* (pp. 763-768) USA: Virginia Commonwealth University.

Participations à des congrès et colloques internationaux

2024

Wauthoz, N., Rosiere, R., & Amighi, K. (2024). *Inhaled chemotherapy as a new modality to increase immunotherapy response in lung cancer therapy*. Paper session presented at Rescon summit Europe (2024: 26-28-06-2024: Barcelona).

Wauthoz, N., Rosiere, R., & Amighi, K. (2024). *New Inhaled Therapies to Increase the Immunotherapy Response in Lung Cancer Therapy*. Paper session presented at Annual International Symposium of Drug Delivery Systems (11th: 22-24-05-2024: Osaka).

Wauthoz, N. (2024). *Optimisation of Nanobodies for Astma*. Paper session presented at Formulation & Delivery 2024 (25 & 26-04-2024: London).

2023

Wauthoz, N., Gevenois, P., Menchi, E., Lambot, C., Sebti, T., & Amighi, K. (2023). *Evaluation of the efficacy of an innovative triparatopic anti-IL-13 VhH in a murine preclinical model of respiratory inflammation*. Paper session presented at International Society For Aerosols in Medicine (2023: 26-30th August 2023: Saarbrücken).

Wauthoz, N., & Amighi, K. (2023). *Inhaled chemotherapy : a new modality for lung cancer treatment*. Paper session presented at Forum of Pharmaceutical Sciences of Belgian Society (21th: 27-28th 2023: Blankenberg).

2022

Wauthoz, N., Chraibi, S., Davenne, T., Gérard, P., Rosiere, R., & Amighi, K. (2022). *Evaluation of Tumour Exposure following the Administration of an Innovative Cisplatin Dry Powder for Inhalation at Different Dose Levels and Regimens*. Paper session presented at Drug Delivery to the Lung (2022: 7-9th December 2022: Edinburg).

2021

Menchi, E., El Khattabi, C., Denis, O., Pochet, S., Amighi, K., & Wauthoz, N. (2021). *Determination of an appropriate dose ratio of a synergistic combination of long-acting bronchodilators for the maintenance treatment of asthma and COPD*. Paper session presented at Drug Delivery to the Lung (32: 8-10th December 2021: Virtual).

Ravon, F., Menchi, E., Rimmelink, M., Chraibi, S., Fontaine, V., & Wauthoz, N. (2021). *In vitro and in vivo evaluations of the tolerance of a new and innovative anti-tuberculosis drug combination by inhalation*. Paper session presented at Drug Delivery to the Lung (32: 8-10th December 2021: Virtual).

Gevenois, P., Declerck, S., De Braekeleer, K., Vander Heyden, Y., Sebti, T., Amighi, K., & Wauthoz, N. (2021). *Optimization of IgG dry powder for inhalation (DPI) formulation stability based on polyol-sugar mixtures using a rational Design of experiment (DoE)*. Poster présenté à la conférence Pharmaceutics, Biopharmaceutis and Pharmaceutical Technology (12th: 11-14th May 2021: Digital).

Chraibi, S., Rosiere, R., De Prez, E., Langer, I., Nortier, J., Amighi, K., & Wauthoz, N. (2021). *Evaluation of pulmonary and renal tolerance on mice of a cisplatin-based dry powder for inhalation to treat lung cancer*. Poster présenté à la conférence Pharmaceutics, Biopharmaceutis and Pharmaceutical Technology (12th: 11-14th May 2021: Digital).

Wauthoz, N., & Amighi, K. (2021). *Inhaled Chemotherapy : a new modality for lung cancer treatment: (invited plenary speaker)*. Paper session presented at Pharmaceutics, Biopharmaceutis and Pharmaceutical Technology (12th: 11-14th May 2021: Digital).

2020

Chraibi, S., De Prez, E., Rosiere, R., Touzani, F., Antoine, M.-H., Wauthoz, N., Amighi, K., & Nortier, J. (2020). *Évaluation préclinique de la tolérance rénale suite à l'administration par voie systémique et par inhalation de cisplatine dans un modèle murin de cancer pulmonaire*. Paper session presented at congrès de la société francophone de néphrologie, dialyse et transplantation (SFNDT) (5ème: 07/10/2020-08/10/2020: Digital).

Chraibi, S., Rosiere, R., Larbanoix, L., Laurent, S., De Prez, E., Nortier, J., Amighi, K., & Wauthoz, N. (2020). *Optimization of Cisplatin-based Regimens Combining Pulmonary and Intravenous Routes for Lung Cancer Therapy*. Poster présenté à la conférence Respiratory Drug Delivery 2020 (26/04/2020-30/06/2020).

Rosiere, R., Bischof, R., Chraibi, S., Hennia, I., Meeusen, E., Amighi, K., & Wauthoz, N. (2020). *Pharmacokinetic and Preliminary Toxicity Investigation of an Innovative Controlled-Release Cisplatin Dry Powder Inhalation Formulation in Sheep*. Poster

présenté à la conférence Respiratory Drug Delivery 2020 (26/04/2020-30/06/2020: Digital).

2018

Chraibi, S., Spires, J. J., Amighi, K., & Wauthoz, N. (2018). *In silico Prediction of Pharmacokinetic Parameters after Cisplatin Intravenous and Endotracheal Administration Using GastroPlus™ Software*. Poster présenté à la conférence Drug Delivery to the lung (28: 12-14th December 2018: Edinburg).

Wauthoz, N. (2018). *Formulation strategies of dry powders related to the lung diseases*. Paper session presented at SimInhale COST action MP1404 Summer School 2018 and 5th Workshop on Pulmonary Drug Delivery (3-6th September 2018: Dublin).

2017

Rosiere, R., Chraibi, S., Albasry, S., Vermeesch, M., Amighi, K., & Wauthoz, N. (2017). *Development of paclitaxel nanocrystal-based dry powder formulations for targeted therapy of lung tumours by inhalation*. Poster présenté à la conférence Drug Delivery to the lungs (DDL) (28: 2017-12-06-08: Edimbourg).

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2017). *Impact of the capsule type on the aerodynamic performances of a fluticasone-based dry powder under optimal and suboptimal inhalation airflows*. Poster présenté à la conférence Drug Delivery to the lungs (28: 2017-12-06-08: Edimbourg).

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2017). *A Comparative Evaluation of the Aerosolization Performances of Marketed Fluticasone Multi-Unit and Single-Unit Dry Powder Inhalers (DPIs): The Effects of Product Use Life, Suboptimal Airflow and a Hot/Humid Environment*. Poster présenté à la conférence American Association of Pharmaceutical Scientists (AAPS) (2017: 2017-11-12-15: San Diego).

Salade, L., Wauthoz, N., De Vriese, C., Amighi, K., & Goole, J. (2017). *Development of a Dry-Powder Formulation with Ghrelin-loaded Liposomes for Nose-to-Brain Delivery*. Poster présenté à la conférence 2nd European Conference on Pharmaceutics, Novel Dosage Forms & Innovative Technologies (3 April to 4 April 2017: Krakow, Poland).

2016

Rosiere, R., Van Woensel, M., Mathieu, V., Mathivet, T., Amighi, K., & Wauthoz, N. (2016). *New lung-tumour-penetrating nanocarrier designed for aerosolized chemotherapy*. Paper session presented at Drug Delivery to the lung (27th world meeting: 7-9/12/2016: Edinburg (UK)).

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2016). *Impact of different capsules for dry powder inhalers on the aerodynamic performances of formoterol-based binary and ternary blends*. Poster présenté à la conférence Drug Delivery to the lung (27th world meeting: 7-9/12/2016: Edinburg (UK)).

Levet, V., Rosiere, R., Amighi, K., & Wauthoz, N. (2016). *Local and systemic pharmacokinetic evaluation of immediate-release and controlled-release cisplatin dry powders for inhalation against lung cancer*. In *Journal of Pulmonary Delivery - Abstract book of Drug Delivery to the Lungs conference 27* Journal of Aerosol Medicine and Pulm.

Levet, V., Rosiere, R., Amighi, K., & Wauthoz, N. (2016). *Local and systemic pharmacokinetic evaluation of immediate-release and controlled-release cisplatin dry powders for inhalation against lung cancer*. Poster présenté à la conférence Drug delivery to the lungs (27: December 6-9th 2016: Edinburgh, Scotland).

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2016). *Influence of flow rate and usage in drastic condition on the aerodynamic performance of a formoterol dry powder formulation using different kinds of capsules for inhalation*. Poster présenté à la conférence AAPS (2016: 13-17/11/2016: Denver (USA)).

Van Woensel, M., Wauthoz, N., Rosiere, R., Mathieu, V., Kiss, R., Lefranc, F., Steelant, B., Van Gool, S. W., Mathivet, T., Gerhardt, H., & Amighi, K. (2016). *Development of siRNA-loaded chitosan nanoparticles targeting Galectin-1 for the treatment of glioblastoma multiforme via intranasal administration*. Paper session presented at Respiratory Drug Delivery (2016: 17-21/04/2016: Phoenix (Arizona)).

Salade, L., Wauthoz, N., De Vriese, C., Amighi, K., & Goole, J. (2016). *Development and Evaluation of Ghrelin-loaded Liposomes for Nose to Brain Delivery*. Poster présenté à la conférence Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (04-07/04/2016: Glasgow UK).

2015

Salade, L., Wauthoz, N., De Vriese, C., Amighi, K., & Goole, J. (2015). *Development and Evaluation of Ghrelin-loaded Liposomes for Nose-to-Brain Delivery*. Poster présenté à la conférence Journée des doctorants de sciences biomédicales, dentaires, sciences médicales et pharmaceutiques (15ème journée: 17/12/2015: Erasme).

Levet, V., Amighi, K., & Wauthoz, N. (2015). *Inhaled chemotherapy: development of immediate and controlled-release cisplatin dry powders formulations*. Poster présenté à la conférence Journée des Doctorants de sciences biomédicales, dentaires, sciences médicales et pharmaceutiques (15th: 17/12/2015: Erasme, Belgique).

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2015). *Evaluation of the aerodynamic performance of formoterol dry powder using different capsules for inhalation: hypromellose versus gelatin from Qualicaps and Capsugel*. Poster présenté à la conférence Drug Delivery to the Lung (26th World Meeting: 9-11 décembre 2015: Edinburg).

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2015). *A comparative evaluation of formoterol-based marketed inhaled medicines throughout the device life, focusing on inspiratory airflow and high temperature and humidity use conditions*. Poster présenté à la conférence American Association of Pharmaceutical Scientists : Annual Meeting of Exposition (2015: 25-29/10/2015: Orlando, USA).

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2015). *Inhaler Device Selection: comparison of capsule-based DPIs, pMDIs and Multi-dose DPIs*. Paper session presented at American Association of Pharmaceutical Scientists : Annual Meeting & Exposition (2015: 25-29/10/2015: Orlando, USA).

Schoubben, A., Wauthoz, N., Ianni, F., Blasi, P., Amighi, K., & Ricci, M. (2015). *Aerodynamic properties and pharmacokinetics of capreomycin oleate supergenerics*.

Paper session presented at Inhaled Therapies for tuberculosis and other infectious diseases (3rd: 14-16/10/2015: Parma, Italy).

Wauthoz, N., Duret, C., Merlos, R., Sebti, T., Vanderbist, F., & Amighi, K. (2015). *Innovative dry itraconazole-based solid dispersion for inhalation to combat pulmonary aspergillosis : from the laboratory bench to the industrial scale*. Poster présenté à la conférence Inhaled Therapies for Tuberculosis and other infectious diseases (3rd: 14-16/10/2015: Parma, Italy).

Ianni, F., Schoubben, A., Lisanti, A., Sardella, R., Wauthoz, N., Amighi, K., & Natalini, B. (2015). *QUANTITATIVE ASSAY OF CAPREOMYCIN OLEATE LEVELS IN MICE LUNG AND PLASMA WITH A FULLY VALIDATED RP-HPLC METHOD*. Poster présenté à la conférence RDPA 2015 Recent Development in Pharmaceutical Analysis (28/06/2015-1/07/2015: Perugia, Italy).

Wauthoz, N. (2015). *The Behavior of Capsule-based DPIs Among Marketed Inhaled Medicines - A Comparative Case Using Formoterol*. Paper session presented at Capsule Based Inhalers : Understanding the Science (9/06/2015: London).

Merlos, R., Wauthoz, N., Belhassan, L., Sebti, T., Traina, K., Vanderbist, F., & Amighi, K. (2015). *Scaling-up of an Itraconazole-based Dry Powder for Inhalation from a Lab-sized Buchi Mini Spray Dryer B-290 to a Pilot Mobile Minor Spray Dryer*. Paper session presented at Forum des sciences pharmaceutiques de la SBSP (18: 28-29/05/2015: Blankenberge).

Levet, V., Amighi, K., & Wauthoz, N. (2015). *Inhaled Cisplatin: Assessment of administration route and development of a Dry Powder Formulation*. Paper session presented at Forum of Pharmaceutical Sciences of the Belgian Society of Pharmaceutical Sciences (18th: May 28-29th, 2015: Blankenberge, Belgique).

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2015). *Inhaler Device Selection: comparison of capsule-based DPIs, pMDIs and Multi-dose DPIs*. Paper session presented at RDD Europe 2015 (5-8 May 2015: Antibes, France).

Van Woensel, M., Wauthoz, N., Rosiere, R., Amighi, K., Mathieu, V., Lefranc, F., Van Gool, S. W., Mathivet, T., & De Vleeschouwer, S. (2015). *Intranasal delivery of anti-Galectin-1 formulation to increase the efficiency of chemo- and immunotherapy for glioblastoma*. Poster présenté à la conférence European Conference on Pharmaceutics (1st: 13 and 14/04/2015: Reims, France).

Rosiere, R., Van Woensel, M., Langer, I., Mathieu, V., Amighi, K., & Wauthoz, N. (2015). *Nanomicelle-based dry powders for inhalation for targeted delivery to lung cancer cells: in vitro evaluation and in vivo local pulmonary tolerance on healthy mice*. Poster présenté à la conférence European Conference on Pharmaceutics (1st: 13 and 14/04/2015: Reims, France).

2014

Merlos, R., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2014). *Industrial perspectives for Dry Powder for Inhalation composed by Itraconazole to prevent or combat*

pulmonary aspergillosis. Poster présenté à la conférence Journée doctorale Pôle Santé (14ème: 18/12/2014: Campus Erasme, ULB).

Levet, V., Wauthoz, N., & Amighi, K. (2014). *Local and Systemic Pharmacokinetic evaluation of a Cisplatin solution delivered by Pulmonary Route or by Intravenous route applying validated Electrothermic Atomic Absorption Spectrometry methods (ETAAS)*. Paper session presented at Journée des Doctorants de sciences biomédicales, dentaires, sciences médicales et pharmaceutiques 14th Erasme, Belgique 18/12/2014.

Wauthoz, N. (2014). *Dry Powders for Inhalation : Which Device, Capsule, Formulation?* Paper session presented at Capsule-based Inhalers: Understanding the Science (25-11-2014: Basel, Switzerland).

Bastiat, G., Wauthoz, N., Kondo, K., & Benoit, J.-P. (2014). *Modified Gemcitabine-loaded Lipid Nanocapsules-based Gel Technology to Target Lymph Nodes and Combat Mediastinal Metastases*. Paper session presented at France-Japan Drug Delivery System Symposium (11th: 5-8th October 2014: Awaji Island).

Rosiere, R., Van Antwerpen, P., Gelbcke, M., Amighi, K., & Wauthoz, N. (2014). *Development of nanoparticle formulations composed by new folate receptor-targeted excipients and temozolomide for the lung cancers therapy by inhalation*. Poster présenté à la conférence Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (9th: 31/03/2014-03/04/2014: Lisbonne, Portugal).

Wauthoz, N., Moysan, E., Kondo, K., Zandecki, M., Moal, V., Rousselet, M.-C., Hureaux, J., Bastiat, G., & Benoit, J.-P. (2014). *Lauroyl-gemcitabine loaded lipid nanocapsules for the treatment of metastases in mediastinal lymph nodes*. Poster présenté à la conférence Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (9th: 31/03/2014-03/04/2014: Lisbonne, Portugal).

Amighi, K., & Wauthoz, N. (2014). *Advances in Pulmonary Drug Delivery*. Paper session presented at Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (9th: 31/03/2014-03/04/2014: Lisbonne, Portugal).

Amighi, K., & Wauthoz, N. (2014). *La délivrance pulmonaire : une nouvelle voie d'accès pour les médicaments: état de l'art, réalisations et perspectives*. Paper session presented at Académie Royale de Médecine de Belgique (29/03/2014: Bruxelles, Belgique).

Van Woensel, M., Wauthoz, N., Rosiere, R., Amighi, K., Mathieu, V., Lefranc, F., Van Gool, S. W., Mathivet, T., & De Vleeschouwer, S. (2014). *Intranasal delivery of anti-Galectin-1 formulation to increase the efficiency of chemo- and immunotherapy for glioblastoma*. Poster présenté à la conférence Belgian Society of Neurosurgery (29/03/2014: Brussels).

2013

Rosiere, R., Wauthoz, N., Gelbcke, M., Van Antwerpen, P., & Amighi, K. (2013). *Development of new inhalable formulation for the lung cancers therapy*. Paper session presented at Journée des Doctorants de sciences biomédicales, dentaires, sciences médicales et pharmaceutiques (13: 19/12/2013: Erasme).

Rosiere, R., Wauthoz, N., Gelbcke, M., Van Antwerpen, P., & Amighi, K. (2013). *Development of new inhalable formulation for the lung cancers therapy*. Paper session presented at Forum des sciences pharmaceutiques de la SBSB (17: 17-18/10/2013: Spa).

Duret, C., Wauthoz, N., Rosiere, R., Merlos, R., Sebti, T., Vanderbist, F., & Amighi, K. (2013). *A new Inhaled Itraconazole Solid Dispersion for Inhalation against Invasive Pulmonary Aspergillosis*. Poster présenté à la conférence Innovation in Drug Delivery (3rd: 22-25/09/2013: Pise - Italie).

Wauthoz, N., & Amighi, K. (2013). *Phospholipids as pulmonary excipient*. Paper session presented at Symposium on Phospholipids in Pharmaceutical Research (3rd: 16-17/09/2013: Heidelberg - Allemagne).

2012

Moysan, E., Wauthoz, N., Bastiat, G., & Benoit, J.-P. (2012). *An original nanomedicine to deliver gemcitabine in lymph nodes invaded by metastasis*. Poster présenté à la conférence GTRV Scientific Meeting (27th: 3-5 december 2012: Paris).

Wauthoz, N., Kiss, R., & Amighi, K. (2012). *Temozolomide by inhalation for the treatment of lung tumors: Preclinical investigation and development of dry powder formulations for inhalation*. Paper session presented at Nanomedicine in Oncology Workshop (26-29 September 2012: Berder, France).

Wauthoz, N., Kiss, R., & Amighi, K. (2012). *Local Delivery of Temozolomide against Lung Tumors and Development of Dry Powders for Inhalation*. Paper session presented at Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (8th World Meeting: 19.03.2012-22.03.2012: Istanbul).

Duret, C., Wauthoz, N., Goole, J., Sebti, M. T., Vanderbist, F., & Amighi, K. (2012). *In vitro and in vivo evaluation of a dry powder endotracheal insufflator device for use in dose-dependent preclinical studies in mice*. Poster présenté à la conférence 8th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (19-22 mars 2012: Istanbul).

Duret, C., Wauthoz, N., Goole, J., Sebti, T., Vanderbist, F., & Amighi, K. (2012). *Dry powder endotracheal insufflators device for use in dose dependent preclinical studies in mice*. Poster présenté à la conférence 8th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology.

2011

Duret, C., Wauthoz, N., Pilcer, G., Depreter, F., Sebti, T., & Amighi, K. (2011). *The use of phospholipids as excipients in the development of formulations for inhalation*. Poster présenté à la conférence Phospholipids in Pharmaceutical Research (2nd: 12-09-2011 and 13-09-2011: Heidelberg).

Wauthoz, N., Deleuze, P., Saumet, A., Duret, C., Kiss, R., & Amighi, K. (2011). *Temozolomide-based dry powder formulations for lung tumor-related inhalation treatments*. Poster présenté à la conférence PharmSciFair (3rd: 13/06/2011-17/06/2011: Pragues).

Wauthoz, N. (2011). *Temozolomide by inhalation for the treatment of lung tumors : Preclinical investigation and development of dry powder formulations for inhalation*. Paper session presented at Forum des sciences pharmaceutiques de la société belge des sciences pharmaceutiques (15ème: 13 et 14/05/2011: Spa).

2010

Wauthoz, N., Deleuze, P., Saumet, A., Duret, C., & Amighi, K. (2010). *Development of Temozolomide Dry Powder Formulations for Inhalation for the Treatment of Lung Tumours*. Poster présenté à la conférence Journée doctorale pôle santé 2010 (23/12/2010: Campus Erasme).

Wauthoz, N., Deleuze, P., Saumet, A., Duret, C., Kiss, R., & Amighi, K. (2010). *Development of Temozolomide Dry Powder Formulations for Inhalation for the Treatment of Lung Tumours*. Paper session presented at Journée doctorale ULB/MONS (28/05/2011: Mons).

Wauthoz, N., & Amighi, K. (2010). *In vivo assessment of temozolomide delivery systems for inhalation therapy of lung cancer*. Paper session presented at 7th World Meeting on Pharmaceutics Biopharmaceutics and Pharmaceutical Technology (8-11 March 2010: La Valletta, Malta).

Lamoral-Theys, D., Dufrasne, F., Wauthoz, N., Kerff, F., Lefranc, F., Neve, J., Dubois, J., & Kiss, R. (2010). *New Polyol Vanilloyl Esters with Anti-tumor Effects Throught the Targeting of Kinases Controlling the Actin Cytoskeleton*. Paper session presented at Journée des doctorants de Pharmacie (28 mai 2010: ULB).

2009

Wauthoz, N., Deleuze, P., Hecq, J., Roland, I., Saussez, S., Adanja, I., Debeir, O., Decaestecker, C., Mathieu, V., Kiss, R., & Amighi, K. (2009). *In vivo assessment of temozolomide delivery systems for inhalation therapy of lung cancer*. Paper session presented at Journée doctorale Pôle Santé (17/12/2009: Campus Erasme).

2008

Delporte, C., Van Antwerpen, P., Pilcer, G., Wauthoz, N., Zouaoui Boudjeltia, K., Moguilevsky, N., Amighi, K., Kauffmann, J.-M., & Neve, J. (2008). *Liposomes as a model of phospholipid membrane surfaces in the study of the role of myeloperoxidase in atherogenesis*. Poster présenté à la conférence 6th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (Barcelona).

Brevets

2018

Amighi, K., Wauthoz, N., & Rosiere, R. (2018). *Kit for inhaled chemotherapy, and treatment of lung cancer with said kit*.

Amighi, K., Wauthoz, N., & Rosiere, R. (2018). *Dry powder inhalation formulation and its use for the therapeutic treatment of lungs*.

2015

Van Woensel, M., Wauthoz, N., Rosiere, R., Mathieu, V., Kiss, R., Lefranc, F., Steelant, B., Van Gool, S. W., Mathivet, T., Gerhardt, H., Amighi, K., & De Vleeschouwer, S. (2015). *Development of siRNA-loaded chitosan nanoparticles targeting Galectin-1 for the treatment of glioblastoma multiforme via intranasal administration: patent application GB1519841.9 - PCT/EP2016/078547 & WO2017/089392A1.*

2013

Rosiere, R., Wauthoz, N., Gelbcke, M., & Amighi, K. (2013). *Formulations useful in the treatment of proliferative diseases affecting the respiratory tract: European Patent Number EP 13188995.8-1453. PCT/EP2014/072281 & WO2015/055796.*

Amighi, K., Sereno, A. S. A., Ronchi, C., Wauthoz, N., & Hernandez, G. (2013). *Inhalable particle comprising tiotropium and indacaterol: European Patent Number EP 13382318.7 & WO2015/018800A1.*

Thèses et mémoires

2016

Chraïbi, S., Rosiere, R., Wauthoz, N., & Amighi, K. (2016). *Développement de poudres sèches pour inhalation à base de nanovecteurs pour le traitement du cancer du poumon* (Mémoire non-publié). Bruxelles, Belgique: Université Libre de Bruxelles.

2011

Wauthoz, N. (2011). *Développement et évaluation de formulations pour inhalation à base d'anticancéreux dans le cadre du traitement des tumeurs pulmonaires* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.

2006

Wauthoz, N. (2006). *Ethnopharmacologie de Mangifera indica L. en Guinée. Dosage d'une C-glycosyl xanthone, la mangiférine dans l'écorce de variétés locales* (Mémoire non-publié). Campus de la plaine: Université libre de Bruxelles.

Direction de thèses

2013

Duret, C. (2013). *Développement et évaluation de poudres sèches pour inhalation à base d'itraconazole dans le cadre du traitement et de la prévention de l'aspergillose pulmonaire* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.

Participation aux jurys de thèse

2024

Biset, N. (2024). *Medication adherence in asthma and COPD: context analysis and prospects for the development of a digital interprofessional intervention* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.

2023

Tabare, E. (2023). *Development and stabilization of semi-finished dosage forms for phage-therapy* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.

2018

Chikh Alard, I. (2018). *DEVELOPMENT OF NOVEL MULTI-RESPONSIVE MATERIALS CHARACTERIZED BY POTENTIAL CONTROLLED RELEASE PROPERTIES* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.