

# 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

**2022**

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., Sahar, A. K., Chraïbi, 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.

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., 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

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

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

## 2020

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

## 2019

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

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

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

## 2018

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

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

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

Rosiere, R., Hureaux, J., Levet, V., Amighi, K., & Wauthoz, N. (2018). La chimiothérapie inhalée – partie 1 : concept et challenges technologiques actuels. *Revue des maladies respiratoires*, 35(4), 357-377. doi:10.1016/j.rmr.2018.02.001

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

Rosiere, R., Van Woensel, M., Gelbcke, M., Mathieu, V., Hecq, J., Mathivet, T., Vermeersch, M., Van Antwerpen, P., Amighi, K., & Wauthoz, N. (2018). New Folate-Grafted Chitosan Derivative To Improve Delivery of Paclitaxel-Loaded Solid Lipid Nanoparticles for Lung Tumor Therapy by Inhalation. *Molecular pharmaceutics*, 15(3), 899-910. doi:10.1021/acs.molpharmaceut.7b00846

## 2017

Salade, L., Wauthoz, N., Deleu, M., Vermeersch, M., De Vriese, C., Amighi, K., & Goole, J. (2017). Development of coated liposomes loaded with ghrelin for nose-to-brain delivery for the treatment of cachexia. *International Journal of Nanomedicine (Online)*, 12, 8531—8543. doi:10.2147/IJN.S147650

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 pharmaceutics*, 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 pharmaceutics and biopharmaceutics*, 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

Merlos, R., Wauthoz, N., Levet, V., Belhassan, L., Sebti, T., Vanderbist, F., & Amighi, K. (2017). Optimization and Scaling-Up of ITZ-based Dry Powders for Inhalation. *Journal of drug delivery science and technology*, 37, 147-157. doi:10.1016/j.jddst.2016.12.009

Levet, V., Merlos, R., Rosiere, R., Amighi, K., & Wauthoz, N. (2017). Platinum pharmacokinetics in mice following inhalation of cisplatin dry powders with different release and lung retention properties. *International journal of pharmaceutics*, 517, 359-372. doi:10.1016/j.ijpharm.2016.12.037

## 2016

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

## 2015

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

## 2014

Merlos, R., Amighi, K., & Wauthoz, N. (2014). Recent developments in inhaled triazoles against invasive pulmonary aspergillosis. *Current Fungal Infection Reports*, 8(4), 331-342. doi:10.1007/s12281-014-0199-5

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

Duret, C., Merlos, R., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2014). Pharmacokinetic evaluation in mice of amorphous itraconazole-based dry powder formulations for inhalation with high bioavailability and extended lung retention. *European journal of pharmaceuticals and biopharmaceutics*, 86(1), 46-54. doi:10.1016/j.ejpb.2013.03.005

## 2013

Bury, M., Novo-Uzal, E., Andolfi, A., Cimini, S., Wauthoz, N., Heffeter, P., Lallemand, B., Avolio, F., Delporte, C., Cimmino, A., Dubois, J., Van Antwerpen, P., Zonno, M. C., Vurro, M., Poumay, Y., Berger, W., Evidente, A., De Gara, L., Kiss, R., & Locato, V. (2013). Ophiobolin A, a sesterterpenoid fungal phytotoxin, displays higher in vitro growth-inhibitory effects in mammalian than in plant cells and displays in vivo antitumor activity. *International journal of oncology*, 43(2), 575-585. doi:10.3892/ijo.2013.1979

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

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

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

## 2012

Duret, C., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2012). New Inhalation-Optimized Itraconazole Nanoparticle-Based Dry Powders for the Treatment of Invasive Pulmonary Aspergillosis. *International journal of nanomedicine*, 7, 5475-5489. doi:10.2147/IJN.S34091

Duret, C., Wauthoz, N., Merlos, R., Goole, J., Maris, C., Roland, I., Sebti, 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. *European journal of pharmaceuticals and biopharmaceutics*, 81(3), 627-634. doi:10.1016/j.ejpb.2012.04.004

Lamoral-Theys, D., Wauthoz, N., Heffeter, P., Mathieu, V., Jungwirth, U., Lefranc, F., Neve, J., Dubois, J., Dufasne, F., Amighi, K., Berger, W., Gailly, P., & Kiss, R. (2012). Trivanillic polyphenols with anticancer cytostatic effects through the targeting of multiple

kinases and intracellular Ca<sup>2+</sup> release. *Journal of Cellular and Molecular Medicine*, 16(7), 1421-1434. doi:10.1111/j.1582-4934.2011.01403.x.

Duret, C., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2012). New Respirable and Fast Dissolving Itraconazole Dry Powder Composition for the Treatment of Invasive Pulmonary Aspergillosis. *Pharmaceutical research*, 29(10), 2845-2859. doi:10.1007/s11095-012-0779-4

Duret, C., Wauthoz, N., Sebti, T., Vanderbist, F., & Amighi, K. (2012). Solid dispersions of itraconazole for inhalation with enhanced dissolution, solubility and dispersion properties. *International journal of pharmaceuticals*, 428(1-2), 103-113. doi:10.1016/j.ijpharm.2012.03.002

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## 2010

Wauthoz, N., Deleuze, P., Saumet, A., Duret, C., Kiss, R., & Amighi, K. (2010). Temozolomide-Based Dry Powder Formulations for Lung Tumor-Related Inhalation Treatment. *Pharmaceutical research*, 28(4), 762-75. doi:10.1007/s11095-010-0329-x

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

Wauthoz, N., Deleuze, P., Hecq, J., Roland, I., Saussez, S., Adanja, I., Debeir, O., Decaestecker, C., Mathieu, V., Kiss, R., & Amighi, K. (2010). In vivo assessment of temozolomide local delivery for lung cancer inhalation therapy. *European journal of pharmaceutical sciences*, 39, 402-411. doi:10.1016/j.ejps.2010.01.010

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Lamoral-Theys, D., Andolfi, A., Van Goietsenoven, G., Cimmino, A., Le Calve, B., Wauthoz, N., Megalizzi, V., Gras, T., Bruyère, C., Dubois, J., Mathieu, V., Kornienko, A., Kiss, R., & Evidente, A. (2009). Lycorine, the main phenanthridine Amaryllidaceae alkaloid, exhibits significant antitumor activity in cancer cells that display resistance to proapoptotic stimuli: an investigation of structure-activity relationship and mechanistic insight. *Journal of medicinal chemistry*, 52(20), 6244-6256. doi:10.1021/jm901031h

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## 2007

Wauthoz, N., Balde, A., Balde, E. S., Van Damme, M., & Duez, P. (2007). Ethnopharmacology of *Mangifera indica* L. Bark and Pharmacological Studies of its Main



C-Gucosylxanthone, Mangiferin. *International Journal of Biomedical and Pharmaceutical Sciences*, 1(2), 112-119.

## Communications publiées lors de congrès ou colloques nationaux et internationaux

### A paraître

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*.

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*.

### 2022

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).

Rosiere, R., Chraibi, S., Albasry, S., Vermeersch, M., Amighi, K., & Wauthoz, N. (2018). Development of paclitaxel nanocrystal-based dry powder formulations for targeted therapy of lung tumours by inhalation. *Abstracts from the Aerosol Society Drug Delivery to the Lungs*. Vol. 31 (2 ed., p. 5) Drug Delivery to the Lungs(28: 6-8 december 2018: Edinburg).

### 2017

Wauthoz, N., Hennia, I., Ecenarro, S., & Amighi, K. (2017). Impact of different capsules for dry powder inhalers on the aerodynamic performances of formoterol-based binary and

ternary blends. In *Abstracts from the Aerosol Society Drug Delivery to the Lungs 27*: Vol. 30 (p. 3132). (4). Journal of Aerosol Medicine and Pulmonary Drug Delivery.

Levet, V., Rosiere, R., Amighi, K., & Wauthoz, N. (2017). Local and systemic pharmacokinetic evaluation of immediate-release and controlled-release cisplatin dry powders for inhalation against lung cancer. In *Abstracts from the Aerosol Society Drug Delivery to the Lungs 27*: Vol. 30 (pp. 31-32). (4). Journal of Aerosol Medicine and Pulmonary Drug Delivery.

Levet, V., Rosiere, R., Hecq, J., Langer, I., Amighi, K., & Wauthoz, N. (2017). Tolerance of Cisplatin Dry Powders for Inhalation and Efficacy on an Orthotopic Grafted Lung Tumor Preclinical Model. In R. R. N. Dalby, J. Peart, J. D. Suman, P. M. Young, & D. Traini (Eds.), *RDD Europe 2017* (pp. 335-340) Virginia, USA: Virginia Commonwealth University.

## 2016

Levet, V., Amighi, K., & Wauthoz, N. (2016). Development of Cisplatin-based Dry Powder for Inhalation with Controlled Release Properties for the Lung Cancer Therapy. *Respiratory Drug Delivery 2016*. Vol. 3 (pp. 549-552) RDD(17-21/04/2016: Phoenix Arizona).

Wauthoz, N., Hennia, I., Diez, F., & Amighi, K. (2016). Influence of Different Capsules for Inhalation on the Aerodynamic Performance of Formoterol Dry Powder Formulation at Different Flow Rates. *Respiratory Drug Delivery 2016*. Vol. 3 (pp. 553-556) RDD(17-21/04/2016: Phoenix Arizona).

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. *Respiratory Drug Delivery 2016*. Vol. 3 (pp. 573-578) Respiratory Drug Delivery(17-21/04/2016: Phoenix Arizona).

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2016). Evaluation of the aerodynamic performance of formoterol dry powder using different capsules for inhalation: hypromellose versus gelatin from Qualicaps and Capsugel. In *Abstracts from The Aerosol Society Drug Delivery To the Lung 26*: Vol. 29 (pp. 28-29). (3). Journal of Aerosol Medicine and Pulmonary Drug Delivery.

## 2015

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 Büchi Mini Spray Dryer B-290 to a Pilot Mobile Minor Spray Dryer. In R. R. N. Dalby, P. R. Byron, J. Peart, J. D. Suman, P. M. Young, & D. Traini (Eds.), *RDD Europe 2015: Book 2* (pp. 441-445) USA: Virginia Commonwealth University.

Wauthoz, N., Hennia, I., Deleers, M., Diez, F., & Amighi, K. (2015). Marketed Formoterol Inhalation Aerosols: A comparative Evaluation to Determine the Place of Capsule-based Dry Powder Inhalers (DPIs). In R. R. N. Dalby, P. R. Byron, J. Peart, J. D. Suman, P. M. Young, & D. Traini (Eds.), *RDD Europe 2015* (pp. 453-457). (book 2). USA: Virginia Commonwealth University.



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. Traini (Eds.), *RDD Europe 2015* (pp. 447-452). (book 2). USA: Virginia Commonwealth University.

#### 2014

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

#### 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., Remmelink, 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, Biopharmaceutics 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, Biopharmaceutics 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, Biopharmaceutics 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

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).

Rosiere, R., Chraibi, S., Albasry, S., Vermeech, 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). *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 uasage 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

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).

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).

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 SBSB (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).

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).

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).

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).

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 SBSP (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 Aspergilliosis*. 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).

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).

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).

## 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). *Dry powder inhalation formulation and its use for the therapeutic treatment of lungs*.

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

**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

### 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.