



List of Publications

2024

- van der Sar IG, Wijsenbeek MS, Dumoulin DW, Jager A, van der Veldt AAM, Rossius MJP, Dingemans AC, Moor CC. **Detection of Drug-induced Interstitial Lung Disease Caused by Cancer Treatment Using Electronic Nose Exhaled Breath Analysis.** Ann Am Thorac Soc. 2024 Jun;21(6):989-992. doi: 10.1513/AnnalsATS.202401-112RL. PMID: 38526585.
- van der Sar I. (2024). **Exhaled breath analysis: For detecting interstitial lung diseases.** [Doctoral Thesis, Erasmus University Rotterdam]
- Marges ER, van der Sar IG, de Vries-Bouwstra JK, Huizinga TWJ, van Daele PLA, Wijsenbeek MS, Moor CC, Geelhoed JJM. **Detection of Systemic Sclerosis-associated Interstitial Lung Disease by Exhaled Breath Analysis Using Electronic Nose Technology.** Am J Respir Crit Care Med. 2024 Aug 15;210(4):512-514. doi: 10.1164/rccm.202402-0272LE. PMID: 38843104.
- van der Sar IG, Moor CC, Wijsenbeek MS. **Classifying Interstitial Lung Disease: Omics Are in the Air.** Am J Respir Crit Care Med. 2024 Sep 1;210(5):690-691. doi: 10.1164/rccm.202404-0748LE. PMID: 38701488; PMCID: PMC11389585.
- Seidl E, Licht JC, de Vries R, Ratjen F, Grasemann H. **Exhaled Breath Analysis Detects the Clearance of *Staphylococcus aureus* from the Airways of Children with Cystic Fibrosis.** Biomedicines. 2024 Feb 14;12(2):431. doi: 10.3390/biomedicines12020431. PMID: 38398033; PMCID: PMC10887307.

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- van der Sar IG, Wijsenbeek MS, Braunstahl GJ, Loekabino JO, Dingemans AC, In 't Veen JCCM, Moor CC. **Differentiating interstitial lung diseases from other respiratory diseases using electronic nose technology.** Respir Res. 2023 Nov 6;24(1):271. doi: 10.1186/s12931-023-02575-3. PMID: 37932795; PMCID: PMC10626662.
- Wijbenga N, de Jong NLA, Hoek RAS, Mathot BJ, Seghers L, Aerts JGJV, Bos D, Manintveld OC, Hellemons ME. **Detection of Bacterial Colonization in Lung Transplant Recipients Using an Electronic Nose.** Transplant Direct. 2023 Sep 20;9(10):e1533. doi: 10.1097/TXD.0000000000001533. PMID: 37745948; PMCID: PMC10513211.
- van der Sar IG, Wijsenbeek MS, Moor CC. **Exhaled breath analysis in interstitial lung disease.** Curr Opin Pulm Med. 2023 Sep 1;29(5):443-450. doi: 10.1097/MCP.0000000000000978. Epub 2023 Jul 5. PMID: 37405699; PMCID: PMC10399937.
- van der Sar IG, van Jaarsveld N, Spiekerman IA, Toxopeus FJ, Langens QL, Wijsenbeek MS, Dauwels J, Moor CC. **Evaluation of different classification methods using electronic nose data to diagnose sarcoidosis.** J Breath Res. 2023 Aug 29;17(4). doi: 10.1088/1752-7163/acf1bf. PMID: 37595574.
- van Raaij BFM, Veltman JD, Hameete JF, Stöger JL, Geelhoed JJM. **Diagnostic performance of eNose technology in COVID-19 patients after hospitalization.** BMC Pulm Med. 2023 Apr 20;23(1):134. doi: 10.1186/s12890-023-02407-6. PMID: 37081422; PMCID: PMC10117233.

- de Vries R, Farzan N, Fabius T, De Jongh FHC, Jak PMC, Haarman EG, Snoey E, In 't Veen JCCM, Dagelet YWF, Maitland-Van Der Zee AH, Lucas A, Van Den Heuvel MM, Wolf-Lansdorf M, Muller M, Baas P, Sterk PJ. **Prospective Detection of Early Lung Cancer in Patients With COPD in Regular Care by Electronic Nose Analysis of Exhaled Breath.** *Chest*. 2023 Nov;164(5):1315-1324. doi: 10.1016/j.chest.2023.04.050. Epub 2023 May 19. PMID: 37209772; PMCID: PMC10635840.
- Licht JC, Seidl E, Slingers G, Waters V, de Vries R, Post M, Ratjen F, Grasemann H. **Exhaled breath profiles to detect lung infection with Staphylococcus aureus in children with cystic fibrosis.** *J Cyst Fibros*. 2023 Sep;22(5):888-893. doi: 10.1016/j.jcf.2023.02.010. Epub 2023 Feb 26. PMID: 36849333.

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- Wijbenga N, Hoek RAS, Mathot BJ, Seghers L, Moor CC, Aerts JGJV, Bos D, Manintveld OC, Hellemons ME. **Diagnostic performance of electronic nose technology in chronic lung allograft dysfunction.** *J Heart Lung Transplant*. 2023 Feb;42(2):236-245. doi: 10.1016/j.healun.2022.09.009. Epub 2022 Sep 20. PMID: 36283951.
- Wijbenga N, Hoek RAS, Mathot BJ, Seghers L, Aerts JGJV, Manintveld OC, Hellemons ME. **The potential of electronic nose technology in lung transplantation: a proof of principle.** *ERJ Open Res*. 2022 Jul 11;8(3):00048-2022. doi: 10.1183/23120541.00048-2022. PMID: 35821754; PMCID: PMC9271757.
- van der Sar IG, Moor CC, Oppenheimer JC, Luijendijk ML, van Daele PLA, Maitland-van der Zee AH, Brinkman P, Wijsenbeek MS. **Diagnostic Performance of Electronic Nose Technology in Sarcoidosis.** *Chest*. 2022 Mar;161(3):738-747. doi: 10.1016/j.chest.2021.10.025. Epub 2021 Oct 28. PMID: 34756945; PMCID: PMC8941620.
- de Vries R. (2022). **eNose analysis of exhaled breath for diagnosing and phenotyping respiratory diseases.** [Doctoral Thesis, University of Amsterdam].

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- van Bragt JJMH, Principe S, Hashimoto S, Versteeg DN, Brinkman P, Vijverberg SJH, Weersink EJM, Scichilone N, Maitland-van der Zee AH. **Exhaled Metabolite Patterns to Identify Recent Asthma Exacerbations.** *Metabolites*. 2021 Dec 15;11(12):872. doi: 10.3390/metabo11120872. PMID: 34940630; PMCID: PMC8708458.
- van der Sar IG, Wijbenga N, Nakshbandi G, Aerts JGJV, Manintveld OC, Wijsenbeek MS, Hellemons ME, Moor CC. **The smell of lung disease: a review of the current status of electronic nose technology.** *Respir Res*. 2021 Sep 17;22(1):246. doi: 10.1186/s12931-021-01835-4. PMID: 34535144; PMCID: PMC8448171.
- Buma AIG, Muller M, de Vries R, Sterk PJ, van der Noort V, Wolf-Lansdorf M, Farzan N, Baas P, van den Heuvel MM. **eNose analysis for early immunotherapy response monitoring in non-small cell lung cancer.** *Lung Cancer*. 2021 Oct;160:36-43. doi: 10.1016/j.lungcan.2021.07.017. Epub 2021 Aug 3. Erratum in: *Lung Cancer*. 2021 Dec;162:211. doi: 10.1016/j.lungcan.2021.10.005. PMID: 34399166.
- Disselhorst MJ, de Vries R, Quispel-Janssen J, Wolf-Lansdorf M, Sterk PJ, Baas P. **eNose in malignant mesothelioma-Prediction of response to immune checkpoint inhibitor treatment.** *Eur J Cancer*. 2021 Jul;152:60-67. doi: 10.1016/j.ejca.2021.04.024. Epub 2021 Jun 1. PMID: 34087572.
- Principe S, van Bragt JJMH, Longo C, de Vries R, Sterk PJ, Scichilone N, Vijverberg SJH, Maitland-van der Zee AH. **The Influence of Smoking Status on Exhaled Breath Profiles in Asthma and COPD Patients.** *Molecules*. 2021 Mar 4;26(5):1357. doi: 10.3390/molecules26051357. PMID: 33806279; PMCID: PMC7961431.

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- Moor CC, Oppenheimer JC, Nakshbandi G, Aerts JGJV, Brinkman P, Maitland-van der Zee AH, Wijsenbeek MS. **Exhaled breath analysis by use of eNose technology: a novel diagnostic tool for interstitial lung disease.** *Eur Respir J*. 2021 Jan 5;57(1):2002042. doi: 10.1183/13993003.02042-2020. PMID: 32732331.

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- de Vries R, Sterk PJ. **eNose breathprints as composite biomarker for real-time phenotyping of complex respiratory diseases.** *J Allergy Clin Immunol*. 2020 Nov;146(5):995-996. doi: 10.1016/j.jaci.2020.07.022. Epub 2020 Jul 31. PMID: 32745557.
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- de Vries R, Dagelet YWF, Spoor P, Snoey E, Jak PMC, Brinkman P, Dijkers E, Bootsma SK, Elskamp F, de Jongh FHC, Haarman EG, In 't Veen JCCM, Maitland-van der Zee AH, Sterk PJ. **Clinical and inflammatory phenotyping by breathomics in chronic airway diseases irrespective of the diagnostic label.** *Eur Respir J*. 2018 Jan 11;51(1):1701817. doi: 10.1183/13993003.01817-2017. PMID: 29326334.

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