



List of Publications

2024

- T.J. van der Aart, M. Visser, M. van Londen, K.M.H. van de Wetering, Acutelines research group, J.C. Ter Maaten, H.R. Bouma. **The smell of sepsis: Electronic nose measurements improve early recognition of sepsis in the ED.** The American Journal of Emergency Medicine, Volume 88, February 2025, Pages 126-133
- N. Wijbenga, B.J. Mathot, R. van Pel, L. Seghers, C.C. Moor, J.G.J.V. Aerts, D. Bos, O.C. Manintveld and M.E. Hellemons. **The ability of an electronic nose to distinguish between complications in lung transplant recipients.** American Journal of Transplantation, 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.
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- 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.
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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.
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- 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.
- R. de Vries, R.M. Vigeveno, S. Mulder, N. Farzan, D.R. Vintges, J.J. Goeman, S. Bruisten, B. van den Corput, J.J. Miranda Geelhoed, L.G. Visser, M. van der Lubben, P.J. Sterk, J.C.C.M. in 't Veen, G.H. Groeneveld. **Ruling out SARS-CoV-2 infection using exhaled breath analysis by electronic nose in a public health setting.** *MEDRXIV.* doi: <https://doi.org/10.1101/2021.02.14.21251712>

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