

List of publications, Jakob Löndahl

Four children aged 4-11 yrs. Parental leave for in total three years during 2007-2018.

Summary: 40 accepted peer-reviewed original articles in international scientific journals (8 as first author, 10 as last), 144 peer-reviewed abstracts at international conferences, 5 chapters in books or reports, 1 accepted patent, 8 comprehensive computer programs (LabVIEW), >40 popular science articles both nationally and internationally, blog writer about science for Forskning&Framsteg.

In total 68 talks: 29 invited research talks at conferences and meetings (among these keynotes at the European Respiratory Society congress 2014, Airmon in Dresden 2017 and the Oxford annual inhalation congress 2017), 11 invited popular science talks, 23 oral presentations at international scientific conferences and 5 times invited as lecturer on PhD courses outside Sweden.

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Author identifier: B-8217-2014 (Löndahl J)

Doctoral Thesis, Löndahl, J., 2009. Experimental Determination of the Deposition of Aerosol Particles in the Human Respiratory Tract. Lund University. ISBN 978-91-628-7702-6

Licentiate dissertation, Löndahl, J. 2006. Health-related aerosol particle studies – respiratory tract deposition and indoor source identification. Doc: LUTFD2/(TFKF-3099)/1-35/2006

Peer-reviewed articles in international journals

- 40) Jakobsson, J.K., Wollmer, P., Löndahl, J., (2018) "Charting the human respiratory tract with airborne nanoparticles - evaluation of the Airspace Dimension Assessment technique", accepted for publication in *Journal of Applied Physiology*
- 39) Jakobsson, J.K., Aaltonen, H.L., Nicklasson, H., Gudmundsson, A., Rissler, J., Wollmer, P. and **Löndahl, J.**, (2018) "Altered deposition of inhaled nanoparticles in subjects with chronic obstructive pulmonary disease", *BMC Pulmonary Medicine*, 18(1), p.129.
- 38) Aaltonen, H.L., Jakobsson, J.K., Diaz, S., Zackrisson, S., Piitulainen, E., **Löndahl, J.**, Wollmer, (2018) "Deposition of inhaled nanoparticles is reduced in subjects with COPD and correlates with the extent of emphysema: proof of concept for a novel diagnostic technique", accepted for publication in *Clinical Physiology and Functional Imaging*
- 37) Aaltonen, H.L., Kindvall, S.S., Jakobsson, J.K., **Löndahl, J.**, Olsson, L.E., Diaz, S., Zackrisson, S. and Wollmer, P., (2018), "Airspace Dimension Assessment with nanoparticles reflects lung density as quantified by MRI", *International Journal of Nanomedicine*, 13, p.2989.
- 36) Ling, M.L., Wex, H., Grawe, S., Jakobsson, J., **Löndahl, J.**, Hartmann, S., Finster, K., Boesen, T. and Šantl-Temkiv, T., (2018), "Effects of ice nucleation protein repeat number and oligomerization level on ice nucleation activity", *Journal of Geophysical Research: Atmospheres*, 123(3), pp.1802-1810.
- 35) Alsvéd, M., Civilis, A., Ekolind, P., Tammelín, A., Erichsen Andersson, A., Jakobsson, J., Svensson, T., Ramstorp, M., Sadrizadeh, S., Larsson, P-A, Bohgard, M., Šantl-Temkiv, T., **Löndahl, J.**, (2018), "Temperature controlled airflow ventilation in operating rooms compared with laminar airflow and turbulent mixed airflow", *Journal of Hospital Infection*, 98(2):181-190
- 34) Šantl-Temkiv, T., Amato, P., Gosewinkel, U., Thyrhaug, R., Charton, A., Chicot, B., Finster, K., Bratbak, G., **Löndahl, J.**, (2017) "A high-flow-rate impinger for the study of concentration, viability, metabolic activity, and ice nucleation activity of airborne bacteria", *Environmental Science and Technology*, 51:11224–11234
- 33) Rissler, J., Nicklasson, H., Gudmundsson, A., Wollmer, P., Swietlicki, E., **Löndahl, J.** (2017) "Deposition efficiency of inhaled particles (15-5000 nm) related to breathing pattern and lung function: an experimental study in healthy children and adults", *Particle and Fibre Toxicology*, 14(1): 1-12.

- 33) Dierschke, K., Isaxon, C., Andersson, U.B.K., Assarsson, E., Axmon, A., Barregård, L., Gudmundsson, A., Jönsson, B.A.G, Kåredal, M., **Löndahl, J.**, Pagels, J., Wierzbicka, A., Bohgard, M., Nielsen, J., (2017), “Respiratory effects and biomarkers of inflammation due to welding derived nanostructured particles”, *International Archives of Occupational and Environmental Health*, 90(5):451-463
- 31) Rissler, J., Nicklasson, H., Gudmundsson, A., Wollmer, P., Swietlicki, E., **Löndahl, J.** (2017) ”A set-up for respiratory tract deposition efficiency measurements (15-5000 nm) and first results for a group of children and adults”, *Aerosol and Air Quality Research*, 17(5): 1244-1255
- 30) **Löndahl, J.**, Jakobsson, J., Broday, D.M., Aaltonen, L., Wollmer, P. (2017), “Do nanoparticles provide a new opportunity for diagnosis of pulmonary disease?”, *International Journal of Nanomedicine*, 12: 41–51
- 29) Jakobsson, J.K.F., Hedlund, J., Kumlin, J., Wollmer, P., **Löndahl, J.** (2016). ”A new method for measuring lung deposition efficiency of airborne nanoparticles in a single breath”, *Scientific Reports*, 6:36147
- 28) Tesson, S., Ambelas Skjøth, C., Šantl-Temkiv, T., and **Löndahl, J.**, (2016). “Airborne Microalgae: Insights, Opportunities and Challenges”, *Applied and Environmental Microbiology*, 82(7), pp.1978-1991
- 27) Caplat, P., Edelaar, P., Dudanec, R.Y., Green, A.J., Okamura, B., Cote, J., Ekroos, J., Jonsson, P.R., **Löndahl, J.**, Tesson, S.V.M., Petit, E.J. (2016), “Looking beyond the mountain: dispersal barriers in a changing world”, *Frontiers in Ecology and the Environment*, 14(5): 261-268
- 26) Tesson, S.V.M., Okamura, B., Dudanec, R.Y., Vyverman, W., **Löndahl, J.**, Rushing, C., Valentini, A., Green, A.J., (2016), “Integrating microorganism and macroorganism dispersal: modes, techniques and challenges with particular focus on co-dispersal”, *Ecoscience*, 22:109-124
- 25) Muala, A., Nicklasson, H., Boman, C., Swietlicki, E., Nyström, R., Pettersson, E., Bosson, J.A., Rissler, J., Blomberg, A., Sandström, T., **Löndahl, J.**, (2015), “Respiratory tract deposition of inhaled wood smoke particles in healthy volunteers”, *Journal of Aerosol Medicine*, 28:237-246
- 24) Levin, M., Gudmundsson, A.; Pagels, J., Fierz, M., Mølhav, K., **Löndahl, J.**, Jensen, K., Koponen, I., (2015), “Limitations in the use of unipolar charging for electrical mobility sizing instruments: A study of the Fast Mobility Particle Sizer”, *Aerosol Science and Technology*, 49:556–565
- 23) **Löndahl, J.**, Möller, W., Pagels, J., Kreyling, W.G., Swietlicki, E., Schmid, O., (2014), “Measurement Techniques for Respiratory Tract Deposition of Airborne Nanoparticles: A Critical Review”, *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, 27:229-254 [most read paper in 2014 in JAMPDD]
- 22) Kuklane, K., Lundgren, K., Gao, C., **Löndahl, J.**, Swietlicki, E., Becker, P., Olsson, L., Taj, T., Persson, K., Östergren, P.O., Malmqvist, E., Sternudd, C., Samuels, M., Gooch, P., Dalholm Hornyanszky, E., Alkan Olsson, J., Kjellstrom, T. (2014) “Ebola: improved design of protective clothing for emergency workers could enhance the efforts to contain the epidemic, due to better coping with heat stress”, *Annals of Occupational Hygiene*, 59:258-261
- 21) Markowicz, P., **Löndahl, J.**, Wierzbicka, A., Suleimanc, R., Shihadeh, A, Larsson, A., (2014), “A study on particles and some microbial markers in waterpipe tobacco smoke”, *Science of the Total Environment*, 499:107-113
- 20) Wierzbicka, A., Bohgard, M., Pagels, J.H., Dahl, A., **Löndahl, J.**, Hussein, T., Swietlicki, E. and Gudmundsson, A., (2014), “Quantification of differences between occupancy and total monitoring periods for better assessment of exposure to particles in indoor environments”, *Atmospheric Environment*, 106:419-428
- 19) Hussein, T., Wierzbicka, A., **Löndahl, J.**, Lazaridis, M., Hänninen, O., 2014, “Indoor aerosol modeling for assessment of exposure and respiratory tract deposited dose”, *Atmospheric Environment*, 106:402-411
- 18) Rissler, J., Nordin, E.Z., Eriksson, A.C., Nilsson, P.T., Frosch, M., Sporre, M.K., Wierzbicka, A., Svenningsson, B., **Löndahl, J.**, Messing, M.E., Sjogren, S, Hemmingsen, J.G., Loft, S., Pagels, J.H., Swietlicki, E., (2014), “Effective density and mixing state of aerosol particles in a near-traffic urban environment”, *Environmental Science and Technology*, 48: 6300-6308
- 17) Nordin, E.Z., Eriksson, A. C., Roldin, P., Nilsson, P. T., Carlsson, J. E., Kajos, M. K., Hellén, H., Wittbom, C., Rissler, J., **Löndahl, J.**, Swietlicki, E., Svenningsson, B., Bohgard, M., Kulmala, M., Hallquist, M., and Pagels, J., (2013), “Secondary organic aerosol formation from gasoline passenger vehicle emissions investigated in a smog chamber”, *Atmospheric Chemistry and Physics*, 13:6101-6116

- 16) Hussein, T., **Löndahl, J.**, Paasonen, P., Koivisto, A.J., Petäjä, T., Hämeri, K., and Kulmala, M., (2013), "Modeling regional inhaled dose of submicron aerosol particles", *Science of the Total Environment*, 458-460:140-149
- 15) Isaxon, C. Dierschke, K., Pagels, J., Wierzbicka, A., Gudmundsson, A., **Löndahl, J.**, Hagerman, I., Berglund, M., Assarsson, A., Andersson, U.B., Jönsson, B.A.G, Nøjgaard, J.K., Eriksson, A., Nielsen, J., Bohgard, M. (2013), "Realistic indoor nano-aerosols for a human exposure facility", *Journal of Aerosol Science*, 60:55-66
- 14) Kristensson, A., Rissler, J., **Löndahl, J.**, Johansson, C., Swietlicki, E. (2013), "Size-resolved respiratory tract deposition of sub-micrometer aerosol particles in a residential area with wintertime wood combustion", *Aerosol and Air Quality Research*, 13:24-35
- 13) Isaxon, C., Dierschke, K., Pagels, J., **Löndahl, J.**, Gudmundsson, A., Hagerman, I., Berglund, M., Wierzbicka, A., Assarsson, A., Andersson, A.B., Jönsson, B.A.G., Messing, M.E., Nielsen, J. & Bohgard, M., (2013), "A novel system for source characterization and controlled human exposure to nanoparticle aggregates generated during gas-metal arc welding", *Aerosol Science and Technology*, 47:52-59
- 12) **Löndahl, J.**, Swietlicki, E., Rissler, J., Bengtsson, A., Boman, C., Blomberg, A. and Sandström, T. (2012). "Experimental Determination of the Respiratory Tract Deposition of Diesel Combustion Particles in Patients with Chronic Obstructive Pulmonary Disease", *Particle and Fibre Toxicology*, 9:30, 1-8
- 11) Rissler, J., Swietlicki, E., Bengtsson, A., Boman, C., Pagels, J., Sandström, T., Blomberg, A., **Löndahl, J.** (2012). "Experimental determination of deposition of diesel exhaust particles in the human respiratory tract", *Journal of Aerosol Science*, 48:18-33
- 10) Roldin, P., Swietlicki, E., Massling, A., Kristensson, A., **Löndahl, J.**, Eriksson, A., Pagels, J., and Gustafsson, S. (2011). "Aerosol ageing in an urban plume – implications for climate and health", *Atmospheric Chemistry and Physics*, 11, 5897-5915
- 9) **Löndahl, J.**, Swietlicki, E., Lindgren, E. and Loft, S. (2010). "Aerosol exposure versus aerosol cooling of climate: What is the optimal emission reduction strategy for human health?", *Atmospheric Chemistry and Physics*, 10, 9441-9449
- 8) Sehlstedt, M., Dove, R. Boman, C., Mudway, I.S., Pagels, J., Swietlicki, E., **Löndahl, J.**, Westerholm, R., Bosson, J., Barath, S., Behndig, A.F., Pourazar, J., Sandström, T., Blomberg, A. (2010). "Antioxidant airway responses following experimental exposure to wood smoke in man", *Particle and Fibre Toxicology*, 7:21
- 7) Barath, S., Mills, N. L., Lundbäck, M., Törnqvist, H., Lucking, A. J., Langrish, J. P., Söderberg, S., Boman, C., Westerholm, R., **Löndahl, J.**, Donaldson, K., Mudway, I. S., Sandström, T., Newby, D. E., Blomberg, A. (2010). "Impaired vascular endothelial function after exposure to diesel exhaust generated at urban conditions" *Particle and Fibre Toxicology*, 7:19
- 6) **Löndahl, J.**, Massling, A., Vaclavik Bräuner, E., Swietlicki, E., Ketznel, M., Pagels, J. and Loft, S. (2009). "Experimentally Determined Human Respiratory Tract Deposition of Airborne Particles at a Busy Street" *Environmental Science & Technology* 43:4659-4664
- 5) Nilsson, E., Swietlicki, E., Sjögren, S., **Löndahl, J.** and Nyman, M. (2009). "Development of an H-TDMA for long-term unattended measurement of the hygroscopic properties of atmospheric aerosol particles", *Atmospheric Measurement Techniques*, 2:313-318
- 4) **Löndahl, J.**, Pagels, J., Boman, C., Swietlicki, E., Massling, A., Rissler, J., Blomberg, A. and Sandström, T. (2008). "Deposition of Biomass Combustion Aerosol Particles in the Human Respiratory Tract", *Inhalation Toxicology* 20:923-933
- 3) Gudmundsson, A., **Löndahl, J.**, Bohgard, M. (2007). "Methodology for identifying particle sources in indoor environments" *Journal of Environmental Monitoring* 9:831-839
- 2) **Löndahl, J.**, Massling, A., Pagels, J., Swietlicki, E., Vaclavik, E. and Loft, S. (2007). "Size-Resolved Respiratory Tract Deposition of Fine and Ultrafine Hydrophobic and Hygroscopic Particles during Rest and Exercise" *Inhalation Toxicology* 19:109-116
- 1) **Löndahl, J.**, Pagels, J., Swietlicki, E., Zhou, J., Ketznel, M., Massling, A. and Bohgard, M.. (2006). "A Set-up for Field Studies of Respiratory Deposition in Humans" *Journal of Aerosol Science* 37:1152-1163

Patent

Löndahl, J., Wollmer, P., (2012), "Device and method for pulmonary function measurement", application no PCT/EP2013/073977, US patent: 2015-0297118, accepted by the Chinese patent office

Book chapters

Löndahl, J., Stroh, E., Rissler, J., (2017) "Skapa bättre luftmiljö för barn", In "Luft och Miljö", Naturvårdsverket

Löndahl, J. (2013). "Physical and biological properties of bioaerosols". In "Bioaerosol Detection Technologies", Edited by Jonsson, P. Olofsson, G. and Tjärnhage, T., pp. 33-48, Springer

Swietlicki, E., Svenningsson, B., Löndahl, J. (2013). "Balansgång mellan klimat och hälsa". In "15 nedslag i klimatforskningen", Edited by Hall, M. and Björck, I., pp. 209-222, Lund University

Reports

Swietlicki, E. and Löndahl, J., Task 3.2. "Respiratory tract deposition measurements" in the report "Health effects of particulate emissions from small scale biomass combustion (Biohealth)", coordinated by Jokiniemi, J., ERA-NET bioenergy program, 2013

Löndahl, J., Pagels, J., Massling, A., Swietlicki, E., Boman, C., Vaclavik, E., Loft, S., Rissler, J., Blomberg, A., Sandström, T., Zhou, J., Ketzler, M., Bohgard, M. (2008), "Experimental determination of the respiratory tract deposition in humans of fine aerosol particles from various real-world sources", Report Series in Aerosol Science (published by the Finnish Association for Aerosol Research), pp. 127-132

Invited talks

29 invited research talks: Swesiacq 2018, Smittdagarna 2017 (Stockholm), Johnson&Johnson 2017, Airmon 2017 (Dresden), 2nd Oxford annual inhalation and respiratory drug delivery congress 2017 (London), Svensk förening för vårdhygien (2017), Ventilationsseminarium SUS 2017, LURN seminar 2016, Tema Renrum 2016 (Stockholm), Framtidens Operationssalar 2016 (Stockholm), Tema Renrum 2015 (Stockholm), **European Respiratory Society Congress 2014 (Münschen)**, seminar on nanomaterials 2014 (Stockholm), seminar day in Lund on heat and coolness 2014 (LU), Medicon Valley Inhalation Symposium 2014, Helsingborg General hospital 2014, LABIB 2014 (LU), University of Gothenburg 2013, Organism Dispersal Symposium Lund 2013, Avidicare opening ceremony 2013, Tema RenRum Stockholm 2012, Aarhus University 2012, Metalund seminar 2012, OPSIS Stockholm 2010, University of Gothenburg 2009, CAST seminar Lund 2009, University of Copenhagen 2007 and 2008, Environmental administration Trelleborg 2005

11 invited popular science talks (~1 hour each) for a non-scientific audience 2010-2016 (total 400 people – Bunkeflostrand, Höllviken, Tranemo, Lund, Åhus, Helsingborg, Lomma [Petrusakademin], Slottstaden Malmö, Rotary central Malmö).

Popular science or public service publications

Löndahl, J., "The particles we never exhale...", By assistans of the organization "Atomium Culture" this article was published in the following major European newspapers: *Der Standard* (Dec 2010, Austria, 350 000 readers), *Frankfurter Allgemeine Zeitung* (Dec 2010, Germany, circulation around 300 000), *Postimees* (Oct 2010, Estonia, 240 000 readers), *Rzeczpospolita* (Oct 2010, Poland, 200 000 readers), *The Irish Times* (Jun 2011, Ireland, 340 000 readers)

As one of a few invited scientists I am writing regularly, for a minor compensation, at a popular science blog at *Forskning & Framsteg* (www.fof.se/blogg, "Sweden's first magazine blog").

Löndahl, J., "Konspirationsteorier om klimatet i SPT", *Svensk Pastoraltidskrift*, nr 17, årgång 56, 2014

Löndahl, J., Bohgard, M., Larsson, P-A, Ramstorp, M., "Operationssal är inte detsamma som ren industri", *Dagens Medicin*, nr 26-27, June 2012

- Löndahl, J., "Vem bestämmer över klimatet?", *Forskning & Framsteg*, nr 8, 2011
- Löndahl, J., "Världens farligaste industri", *Forskning & Framsteg*, nr 5, 2011
- Löndahl, J., "Luftföroreningar som är bra för hälsan?", *Forskning & Framsteg*, nr 1, 2011
- Löndahl, J., "Partiklarna vi aldrig andas ut igen", *Forskning & Framsteg*, nr 3, pp 36-39, 2009
- Löndahl, J., "Particles that remain in the body", FORMAS magazine, *Sustainability*, no 1, March 2007
- Löndahl, J., "Hett om baken om vi sticker huvudet i sanden", *Svenska Dagbladet*, "Synpunkt", 31 januari 2007
- Löndahl, J., "Människan bakom varmare klimat", *Svenska Dagbladet*, "Synpunkt", 5 januari 2007
- Löndahl, J., "Partiklar som stannar i kroppen", FORMAS tidning, *Miljöforskning*, nr 5/6 2006

Popular science, others

Publications written by journalists after interview and (in most cases) revision by me

- SVT (*även netdoktor*), "Ny forskning kan avslöja varför vi får vinterkräksjuka", 24 February 2018, <https://www.svt.se/nyheter/lokalt/skane/ny-forskning-om-vinterkraksjuka>
- SVT, "Därför slår influensan till nu", 23 February 2018, <https://www.svt.se/nyheter/lokalt/helsingborg/darfor-slar-influensan-till-pa-vintern-beror-pa-luftfuktighet>
- Extrakt (populärvetenskaplig tidning från FORMAS), "Forskare undersöker varför vi blir mer sjuka på vintern", 30 januari 2018, <http://www.extrakt.se/halsa-2/forskare-undersoker-varfor-vi-bli-mer-sjuka-pa-vintern/>
- SVT *Sydneytt*, "Här ska ventilationen blåsa bort operationssmittorna", 30 november 2017, <https://www.svt.se/nyheter/lokalt/helsingborg/har-ska-ventilation-blasa-bort-operationssmittorna>
- TV4 *Nyhetsmorgon*. On 11 October 2017, live interview about airborne disease, <https://www.youtube.com/watch?v=3xnS2ALnQIM>
- Nature – Climate Change*, November 2010, Wrote a "research highlight" about my article "Aerosol exposure versus aerosol cooling of climate..." available online at <http://www.nature.com/nclimate/2010/101102/full/nclimate1004.html>
- Hållbart byggande*, Minst risk för smittspridning med temperaturkontrollerad ventilation, 11 Jan 2018, <http://hallbartbyggande.com/minst-risk-for-smittspridning-med-temperaturkontrollerad-ventilation/>
- Forskning.se*, "Rätt ventilation minskar smittspridning under operationer", 15 december 2017: <https://www.forskning.se/2017/12/15/ratt-ventilation-minskar-smittspridning-under-operationer/>
- Nordiska Projekt* (branschtidning inom energi och industri), "Snabba metoder för att konstatera biologiska partiklar i luften", nr 1 2017, https://issuu.com/b2bnyheter.se/docs/hela_tidningen_mobil_9758a7e57bc6f0/18
- Värdfokus* ("tidningen för vårdförbundet"), "Bättre arbetsmiljö och mindre bakterier med ny ventilation", publicerat 8 december 2017: <https://www.vardfokus.se/webbnyheter/2017/december/battre-arbetsmiljo-och-mindre-bakterier-med-ny-ventilation/>
- SVT *Sydneytt*, 30 Dec 2015, About our research on airborne disease
- LTH-nytt, "Nanopartiklar i lungan avslöjar KOL-patienten", by Erik Olausson, 2014:1, p 16-17 and p 45
- Science for Environment Policy* (a newsletter from the EU commission sent to around 12000 subscribing "policy makers"), "Air pollution and climate change: which has greater health impacts" (a summary of my ACP paper on air pollution versus climate change), Issue 225, p1, Jan 2011
- Swedish radio*, Ekonyheterna i P1 about our diagnosis method for COPD, 26 Aug 2012
- Vetandets värld, SR P1, RESPI mentioned. 6 February 2008.

Expressen, Svenska Dagbladet, Sydsvenskan (etc., TT wrote an article), About our measurements on diesel smoke in COPD patients, 25 Aug 2012

New Scientist, April 2009, "Device reveals 'sticky' dangers of air pollution", available online at <http://www.newscientist.com/article/dn16883-device-reveals-sticky-dangers-of-vehicle-pollution.html>

About my PhD thesis, February 2009: *Dagens Nyheter, SVT (Swedish television, Rapport+Sydnytt), SR (Swedish radio), Svenska dagbladet, Göteborgsposten, Sydsvenskan, Expressen/Kvällsposten, Västerbottenskuriren, Dagens medicin, Energi&Miljö, Lantbrukets affärstidning, Dagbladet, Norrbottenskuriren, Katrineholmskuriren, Västerviks tidning, Blekinge läns tidning, Norrköpings tidningar, Östersundsposten, Skånskan, Bilspport*

About my PhD thesis outside Sweden: "Ingeniören" (Denmark), "Jyllands-posten" (Denmark), "The Times of India" (India), "Down to Earth" (India)

Sydsvenskan. Strömkvist, S. "Risk för klåda när fosfatförbud träder i kraft" (about particles from washing detergents). 7 April 2008,

Swedish television, SVT. Kunskapskanalen, Particles from washing detergents. www.forskning.se. 29 March 2008.

Energi&Miljö (magazine), "Ny forskning om partiklar i kroppen", article about respiratory tract deposition and RESPI, No 1, pp 38-39, January 2008.

Swedish television, Sydnytt, RESPI was mentioned, 22 January 2008.

Swedish radio, P4, RESPI was described, 16 January 2008

Helsingborgs dagblad, Palm, H., "Smutsiga skyar dämpar växthuseffekten", article about climate research at Vavihill and the respiratory tract deposition measurements, 7 January 2008.