

Laufende Studien

Mikrobiom-Studie der Pleura und Bronchien

Lungenemphysem-Register Versorgungsanalyse der Lungen Volumenteilreduktion bei Patienten mit einer schwergradigen chronischen Bronchitis mit dominantem Emphysem (KEB-Trial-001)

Publikationsverzeichnis

2024

Mind the gap! Interdisciplinary approach to anterior chest wall reconstruction after total sternectomy. Glueck OM, Ehrl D, **Hatz RA**, Fertmann JM. J Cardiothorac Surg. 2024 Apr 30;19(1):269. doi: 10.1186/s13019-024-02743-6. PMID: 38689350

Multimodal Treatment of Pleural Mesothelioma with Cytoreductive Surgery and Hyperthermic Intrathoracic Chemotherapy: Impact of Additive Chemotherapy. Klotz LV, Zimmermann J, Müller K, Kovács J, Hassan M, Koller M, Schmid S, Huppertz G, Markowiak T, Passlick B, Hofmann HS, Winter H, **Hatz RA**, Eichhorn ME, Ried M. Cancers (Basel). 2024 Apr 20;16(8):1587. doi: 10.3390/cancers16081587. PMID: 38672669

The role of coronary artery disease in lung transplantation: a propensity-matched analysis. Lüsebrink E, Gade N, Seifert P, Ceelen F, Veit T, Fohrer F, Hoffmann S, Höpler J, Binzenhöfer L, Roden D, Saleh I, Lanz H, Michel S, Schneider C, Irlbeck M, Tomasi R, Hatz R, Hausleiter J, Hagl C, Magnussen C, Meder B, Zimmer S, Luedike P, Schäfer A, Orban M, Milger K, Behr J, Massberg S, Kneidinger N. Clin Res Cardiol. 2024 Apr 8. doi: 10.1007/s00392-024-02445-y. Online ahead of print. PMID: 38587564

COPD basal cells are primed towards secretory to multiciliated cell imbalance driving increased resilience to environmental stressors. Stoleriu MG, Ansari M, Strunz M, Schamberger A, Heydarian M, Ding Y, Voss C, Schneider JJ, Gerckens M, Burgstaller G, Castelblanco A, Kauke T, Fertmann J, Schneider C, Behr J, Lindner M, Stacher-Priehse E, Irmeler M, Beckers J, Eickelberg O, Schubert B, Hauck SM, Schmid O, **Hatz RA**, Stoeger T, Schiller HB, Hilgendorff A. Thorax. 2024 May 20;79(6):524-537. doi: 10.1136/thorax-2022-219958.

2023

Outcome after cytoreductive surgery combined with hyperthermic intrathoracic chemotherapy in patients with secondary pleural metastases. Hassan M, Zimmermann J, Schmid S, Passlick B, Kovács J, **Hatz R**, Winter H, Klotz LV, Eichhorn ME, Markowiak T, Müller K, Huppertz G, Koller M, Hofmann HS, Ried M. Front Oncol. 2023 Nov 28;13:1259779. doi: 10.3389/fonc.2023.1259779. eCollection 2023. PMID: 38090507

Ex vivo tissue perturbations coupled to single-cell RNA-seq reveal multilineage cell circuit dynamics in human lung fibrogenesis. Lang NJ, Gote-Schniering J, Porras-Gonzalez D, Yang L, De Sadeleer LJ, Jentsch RC, Shitov VA, Zhou S, Ansari M, Agami A, Mayr CH, Hooshar Kashani B, Chen Y, Heumos L, Pestoni JC, Molnar ES, Geeraerts E, Anquetil V, Saniere L, Wögrath M, Gerckens M, Lehmann M, Yildirim AÖ, **Hatz R**, Kneidinger N, Behr J, Wuyts WA, Stoleriu MG, Luecken MD, Theis FJ, Burgstaller G, Schiller HB. Sci Transl Med. 2023 Dec 6;15(725):eadh0908. doi: 10.1126/scitranslmed.adh0908. Epub 2023 Dec 6. PMID: 38055803

Mass spectrometry-based autoimmune profiling reveals predictive autoantigens in idiopathic pulmonary fibrosis. Leuschner G, Semenova A, Mayr CH, Kapellos TS, Ansari M, Seeliger B, Frankenberger M, Kneidinger N, **Hatz RA**, Hilgendorff A, Prasse A, Behr J, Mann M, Schiller HB. *iScience*. 2023 Oct 27;26(11):108345. doi: 10.1016/j.isci.2023.108345. eCollection 2023 Nov 17. PMID: 38026226 Free PMC article.

Histology of the Primary Tumor Correlates with False Positivity of Integrated 18F-FDG-PET/CT Lymph Node Staging in Resectable Lung Cancer Patients. Damirov F, Stoleriu MG, Manapov F, Büsing K, Michels JD, Preissler G, **Hatz RA**, Hohenberger P, Roessner ED. *Diagnostics (Basel)*. 2023 May 29;13(11):1893. doi: 10.3390/diagnostics13111893. PMID: 37296745

Cytokine signaling converging on IL11 in ILD fibroblasts provokes aberrant epithelial differentiation signatures. Kastlmeier MT, Gonzalez-Rodriguez E, Cabanis P, Guenther EM, König AC, Han L, Hauck SM, See F, Asgharpour S, Bukas C, Burgstaller G, Piraud M, Lehmann M, **Hatz RA**, Behr J, Stoeger T, Hilgendorff A, Voss C. *Front Immunol*. 2023 May 17;14:1128239. doi: 10.3389/fimmu.2023.1128239. eCollection 2023. PMID: 37266432

Surgical cytoreduction and hyperthermic intrathoracic chemotherapy for thymic tumours with pleural spread is effective on survival: results from the multicentre German hyperthermic intrathoracic chemotherapy study. Ried M, Hassan M, Passlick B, Schmid S, Markowiak T, Müller K, Huppertz G, Koller M, Winter H, Klotz LV, **Hatz R**, Kovács J, Zimmermann J, Hofmann HS, Eichhorn ME. *Interdiscip Cardiovasc Thorac Surg*. 2023 Jun 1;36(6):ivad032. doi: 10.1093/icvts/ivad032. PMID: 37192006

[Evaluation of solitary pulmonary nodules]. Siene WGR, Fertmann JM, Kauke T, Tufman A, Kovács J, Angele M, **Hatz R**, Schneider C. *MMW Fortschr Med*. 2023 May;165(9):58-61. doi: 10.1007/s15006-023-2659-8. PMID: 37155067

Non-Oncogene Addiction of KRAS-Mutant Cancers to IL-1 β via Versican and Mononuclear IKK β . Spella M, Ntaliarda G, Skiadas G, Lamort AS, Vreka M, Marazioti A, Lilis I, Bouloukou E, Giotopoulou GA, Pepe MAA, Weiss SAI, Petrera A, Hauck SM, Koch I, Lindner M, **Hatz RA**, Behr J, Arendt KAM, Giopanou I, Brunn D, Savai R, Jenne DE, de Château M, Yull FE, Blackwell TS, Stathopoulos GT. *Cancers (Basel)*. 2023 Mar 20;15(6):1866. doi: 10.3390/cancers15061866. PMID: 36980752

Influence of dental status on outcome after lung transplantation. Vorstandlechner M, Obermeier KT, Schneider CP, Fertmann JM, Smolka W, Michel S, Veit T, Irlbeck M, Tomasi R, **Hatz RA**, Kauke T. *Oral Dis*. 2023 Mar 20. doi: 10.1111/odi.14569. Online ahead of print. PMID: 36939725

Preoperative risk factors predict perioperative allogenic blood transfusion in patients undergoing primary lung cancer resections: a retrospective cohort study from a high-volume thoracic surgery center. Stoleriu MG, Gerckens M, Zimmermann J, Schön J, Damirov F, Sann N, Kovács J, Stacher-Priehse E, Kellerer C, Jörres RA, Kauke T, Ketscher C, Grützner U, **Hatz R**. *BMC Surg*. 2023 Feb 27;23(1):44. doi: 10.1186/s12893-023-01924-9. PMID: 36849951

Preoperative Hilar and Mediastinal Lymph Node Staging in Patients with Suspected or Diagnosed Lung Cancer: Accuracy of 18F-FDG-PET/CT: A Retrospective Cohort Study of 138 Patients. Damirov F, Büsing K, Yavuz G, **Hatz R**, Manapov F, Michels J, Hohenberger P, Roessner E. *Diagnostics (Basel)*. 2023 Jan 22;13(3):403. doi: 10.3390/diagnostics13030403. PMID: 36766508

Posterior reversible encephalopathy syndrome after lung transplantation: Risk factors and management. Yavuz G, Heck S, Siene W, Irlbeck M, Kneidinger N, Michel S, Forbrig R, Walter J, Zimmermann J, Kovács J, Glück OM, Pan M, Schneider C, Fertmann JM, **Hatz RA**, Kauke T. *Clin Transplant*. 2023 Jan;37(1):e14850. doi: 10.1111/ctr.14850. Epub 2022 Dec 7. PMID: 36398875

2022

Effects of immunophilin inhibitors and non-immunosuppressive analogs on coronavirus replication in human infection models. Berthold EJ, Ma-Lauer Y, Chakraborty A, von Brunn B, Hilgendorff A, **Hatz R**, Behr J, Hausch F, Staab-Weijnitz CA, von Brunn A. *Front Cell Infect Microbiol.* 2022 Sep 21;12:958634. doi: 10.3389/fcimb.2022.958634. eCollection 2022. PMID: 36211973

Survival outcomes in a prospective randomized multicenter Phase III trial comparing patients undergoing anatomical segmentectomy versus standard lobectomy for non-small cell lung cancer up to 2 cm. Stamatis G, Leschber G, Schwarz B, Brintrup DL, Flossdorf S, Passlick B, Hecker E, Kugler C, Eichhorn M, Krbek T, Eggeling S, **Hatz R**, Müller MR, Hillinger S, Aigner C, Jöckel KH. *Lung Cancer.* 2022 Oct;172:108-116. doi: 10.1016/j.lungcan.2022.08.013. Epub 2022 Aug 24. PMID: 36058174

Predicting Long-term Survival After Lung Metastasectomy in Patients With Malignant Germ-cell Tumors. Stoleriu MG, Stathopoulos G, Stacher-Priehse E, Ketscher C, Grützner U, Fertmann J, Schneider C, **Hatz R**, Strobl N, Preissler G; MEMBERS OF THE GERMAN LUNG RESEARCH CENTER. *Anticancer Res.* 2022 Sep;42(9):4517-4527. doi: 10.21873/anticancer.15954. PMID: 36039455

Intrathoracic migration of a breast implant seven years after thoracotomy. A case report. Damirov F, Zimmermann J, Ketscher C, **Hatz R**, Manapov F, Lindner M. *Int J Surg Case Rep.* 2022 Sep;98:107506. doi: 10.1016/j.ijscr.2022.107506. Epub 2022 Aug 13. PMID: 35994801

FK506-Binding Protein 11 Is a Novel Plasma Cell-Specific Antibody Folding Catalyst with Increased Expression in Idiopathic Pulmonary Fibrosis. Preisendörfer S, Ishikawa Y, Hennen E, Winklmeier S, Schupp JC, Knüppel L, Fernandez IE, Binzenhöfer L, Flatley A, Juan-Guardela BM, Ruppert C, Guenther A, Frankenberger M, **Hatz RA**, Kneidinger N, Behr J, Feederle R, Schepers A, Hilgendorff A, Kaminski N, Meinel E, Bächinger HP, Eickelberg O, Staab-Weijnitz CA. *Cells.* 2022 Apr 14;11(8):1341. doi: 10.3390/cells11081341. PMID: 35456020

Anti-Gr-1 Antibody Provides Short-Term Depletion of MDSC in Lymphodepleted Mice with Active-Specific Melanoma Therapy. Rose P, van den Engel NK, Kovács JR, **Hatz RA**, Boon L, Winter H. *Vaccines (Basel).* 2022 Apr 4;10(4):560. doi: 10.3390/vaccines10040560. PMID: 35455309

Predicting the effectiveness of high-flow oxygen therapy in COVID-19 patients: a single-centre observational study. Schmidt F, Nowak L, Obereisenbuchler F, Hetrodt J, Heiß-Neumann M, Schönlebe A, Heinig-Menhard K, Gesierich W, Behr J, **Hatz R**, Dinkel J, Stoleriu MG. *Anaesthesiol Intensive Ther.* 2022;54(1):12-17. doi: 10.5114/ait.2022.113738. PMID: 35359136

An In Vivo Inflammatory Loop Potentiates KRAS Blockade. Arendt KAM, Ntaliarda G, Armenis V, Kati D, Henning C, Giotopoulou GA, Pepe MAA, Klotz LV, Lamort AS, **Hatz RA**, Kobold S, Schamberger AC, Stathopoulos GT. *Biomedicines.* 2022 Mar 3;10(3):592. doi: 10.3390/biomedicines10030592. PMID: 35327394

The Role of Thoracic Surgery in Small Cell Lung Cancer - A Large Longitudinal Analysis (2002-2015) Based on Real-World Data. Kauffmann-Guerrero D, Walter J, Kovács J, Sellmer L, **Hatz RA**, Behr J, Schubert-Fritschle G, Tufman A, Schneider CP. *Clin Lung Cancer.* 2022 May;23(3):244-252. doi: 10.1016/j.clcc.2022.01.004. Epub 2022 Feb 4. PMID: 35221252

COVID-19 in Recent Lung Transplant Recipients: Clinical Outcomes and Management Strategies. Zimmermann J, Glueck OM, Fertmann JM, Siemel WG, Yavuz G, Damirov F, Kovács JR, Tufman A, Irlbeck M, Kneidinger N, Michel S, Kauke T, **Hatz RA**, Schneider CP. *Transplant Proc.* 2022 Jul-Aug;54(6):1504-1516. doi: 10.1016/j.transproceed.2021.12.014. Epub 2022 Jan 10. PMID: 35120764

KRAS signaling in malignant pleural mesothelioma. Marazioti A, Krontira AC, Behrend SJ, Giotopoulou GA, Ntaliarda G, Blanquart C, Bayram H, Iliopoulou M, Vreka M, Trassl L, Pepe MAA, Hackl CM, Klotz LV, Weiss SAI, Koch I, Lindner M, **Hatz RA**, Behr J, Wagner DE, Papadaki H, Antimisiaris SG, Jean D, Deshayes S, Grégoire M, Kayalar Ö, Mortazavi D, Dilege Ş, Tanju S, Erus S, Yavuz Ö, Bulutay P, Firat P, Psallidas I, Spella M, Giopanou I, Lilis I, Lamort AS, Stathopoulos GT. *EMBO Mol Med*. 2022 Feb 7;14(2):e13631. doi: 10.15252/emmm.202013631. Epub 2021 Dec 13. PMID: 34898002

Prognostic phenotypes of early-stage lung adenocarcinoma. Lamort AS, Kaiser JC, Pepe MAA, Lilis I, Ntaliarda G, Somogyi K, Spella M, Behrend SJ, Giotopoulou GA, Kujawa W, Lindner M, Koch I, **Hatz RA**, Behr J, Sotillo R, Schamberger AC, Stathopoulos GT. *Eur Respir J*. 2022 Jul 7;60(1):2101674. doi: 10.1183/13993003.01674-2021. Print 2022 Jul. PMID: 34887322

Validation of in vitro models for smoke exposure of primary human bronchial epithelial cells. Mastalerz M, Dick E, Chakraborty A, Hennen E, Schamberger AC, Schröppel A, Lindner M, **Hatz R**, Behr J, Hilgendorff A, Schmid O, Staab-Weijnitz CA. *Am J Physiol Lung Cell Mol Physiol*. 2022 Jan 1;322(1):L129-L148. doi: 10.1152/ajplung.00091.2021. Epub 2021 Oct 20. PMID: 34668416

2021

Hyperthermic Intrathoracic Chemotherapy (HITOC) after Cytoreductive Surgery for Pleural Malignancies-A Retrospective, Multicentre Study. Ried M, Kovács J, Markowiak T, Müller K, Huppertz G, Koller M, Winter H, Klotz LV, **Hatz R**, Zimmermann J, Passlick B, Schmid S, Hassan M, Eichhorn ME, Hofmann HS. *Cancers (Basel)*. 2021 Sep 12;13(18):4580. doi: 10.3390/cancers13184580. PMID: 34572806

Prevention of COVID-19 in Thoracic Surgery Patients: Lessons Learned during the First Pandemic Wave. Stoleriu MG, Gerckens M, Ströh K, Kovács J, Sann N, Obereisenbuchner F, Hetrodt J, Schmidt FM, Reinmuth N, Heiß-Neumann M, Stacher-Priehse E, Koch I, Behr J, Ketscher C, Grütznert U, **Hatz R**. *Pneumologie*. 2021 Dec;75(12):960-970. doi: 10.1055/a-1526-9979. Epub 2021 Jul 14. PMID: 34261146

Automated quantitative thin slice volumetric low dose CT analysis predicts disease severity in COVID-19 patients. Stoleriu MG, Gerckens M, Obereisenbuchner F, Zaimova I, Hetrodt J, Mavi SC, Schmidt F, Schoenlebe AA, Heinig-Menhard K, Koch I, Jörres RA, Spiro J, Nowak L, **Hatz R**, Behr J, Gesierich W, Heiß-Neumann M, Dinkel J. *Clin Imaging*. 2021 Nov;79:96-101. doi: 10.1016/j.clinimag.2021.04.008. Epub 2021 Apr 21. PMID: 33910141

Evaluation of the combination of endothelin receptor antagonists (ERA) and phosphodiesterase-5 inhibitors for the treatment of pulmonary arterial hypertension (PAH) in pathologic human pulmonary arteries in an ex-vivo organ bath model. Englert L, Stadlbauer C, Spaeth M, Hofmann HS, Schneider C, **Hatz RA**, Preissler G, Michel S, Golovchenko S, Ried M, Hoenicka M. *Pulm Pharmacol Ther*. 2021 Feb;66:101985. doi: 10.1016/j.pupt.2020.101985. Epub 2020 Dec 24. PMID: 33359621

2020

Protocol of a retrospective, multicentre observational study on hyperthermic intrathoracic chemotherapy in Germany. Markowiak T, Koller M, Zeman F, Huppertz G, Hofmann HS, Ried M; HITOC Study Group. *BMJ Open*. 2020 Jul 20;10(7):e041511. doi: 10.1136/bmjopen-2020-041511. PMID: 32690754

Clinical Course of Three Postoperative Symptomatic COVID-19 Cases in Patients After Lung Lobectomy. Stoleriu MG, Gerckens M, Hetrodt J, Heiß-Neumann M, Koch I, Stacher-Priehse E, Dinkel J, Behr J,

Grützner U, **Hatz R**. Ann Thorac Surg. 2020 Dec;110(6):e461-e463. doi: 10.1016/j.athoracsur.2020.06.001. Epub 2020 Jun 6. PMID: 32522632

[Expert Recommendation for the Implementation of Hyperthermic Intrathoracic Chemotherapy (HITOC) in Germany]. Ried M, Eichhorn M, Winter H, Grützner U, Lindner M, **Hatz RA**, Haager B, Passlick B, Galetin T, Lopez-Pastorini A, Stoelben E, Hofmann HS. Zentralbl Chir. 2020 Feb;145(1):89-98. doi: 10.1055/a-0934-7806. Epub 2019 Jul 10. PMID: 31291667