

Assoz.Prof. Dr. Herbert Oberacher

Institute of Legal Medicine and Core Facility Metabolomics

Medical University of Innsbruck

List of Publications

Journal articles (peer-reviewed)	108
Other scientific publications (book chapters, meeting abstracts, book reviews)	29
Poster presentations	51
Oral presentations	93
Patents	3

Journal articles

108. De Picker, L.*, Ottoy, J., Verhaeghe, J., Deleye, S., Wyffels, L., Franssen, E., Kosten, L., Sabbe, B., Coppens, V., Timmers, M., de Boer, P., Van Nueten, L., Op De Beeck, K., Oberacher, H., Vanhoenacker, F., Ceysens, S., Stroobants, S., Staelens, S., Morrens, M.
State-associated Changes in Longitudinal [18F]-PBR111 TSPO PET Imaging of Psychosis Patients: Evidence for the Accelerated Ageing Hypothesis?
Brain, Behavior, and Immunity, 2018 accepted.
107. Marksteiner, J., Oberacher, H., Humpel, C.*
Acyl-alkyl-phosphatidylcholines Are Decreased in Saliva of Alzheimer's Disease as Identified by Targeted Metabolomics
Journal of Alzheimer's Disease, 2019 accepted.
106. Oberacher, H.*, Reinstadler, V., Kreidl, M., Stravs, M. A., Hollender, J., Schymanski, E. L.*
Annotating Non-targeted LC-HRMS/MS Data with Two Complementary Tandem Mass Spectral Libraries.
Metabolites, 9 (2019), 3.
105. Reinstadler, V., Lierheimer, S., Boettcher, M., Oberacher, H.*
A Validated Workflow for Drug Detection in Oral Fluid by Non-targeted Liquid Chromatography-Tandem Mass Spectrometry.
Analytical and Bioanalytical Chemistry, 411 (2019), 867-876.
104. Bohn, J.-P.*, Willenbacher, W., Haas, G., Peschel, I., Oberacher, H., Steurer, M.
Pomalidomide in Primary Intraocular Lymphoma.
Leukemia & Lymphoma, 2018 accepted.
103. Weber, A. Klocker, H., Oberacher, H., Gnaiger, E., Neuwirt, H., Sampson, N., Eder, I. E.*
Succinate Accumulation Is Associated with a Shift of Mitochondrial Respiratory Control and HIF-1 Upregulation in PTEN Negative Prostate Cancer Cells.

- International Journal of Molecular Sciences, 19 (2018), 2129.
102. Bohn, J.-P.* , Willenbacher, W., Peschel, I., Oberacher, H., Steurer, M.
Second-generation Immunomodulatory Drugs in Leptomeningeal Myeloma.
Leukemia & Lymphoma, 2018 accepted.
101. van Nuijs, A.* , Lai, F. Y., Been, F., Andres-Costa, M. J., Barron, L., Baz-Lomba, J. A., Berset, J.-D., Benaglia, L., Bijlsma, L., Burgard, D. Castiglioni, S., Christophoridis, C., Covaci, A., de Voogt, P., Emke, E., Fatta-Kassinos, D., Fick, J., Hernandez, F., Gerber, C., González-Mariño, I., Grabic, R., Gunnar, T., Kannan, K., Karolak, S., Kasprzyk-Hordern, B., Kokot, Z., Krizman-Matasic, I., Li, A., Li, X., Löve, A. S. C., Lopez de Alda, M., Meyer, M. R., Oberacher, H., O'Brien, J., Quintana, J. B., Reid, M., Schneider, S., Sadler Simoes, S., Thomaidis N. S., Thomas, K., Yargeau, V., Ort, C.
Multi-year Interlaboratory Exercises for the Analysis of Illicit Drugs and Metabolites in Wastewater: Development of a Quality Control System.
Trends in Analytical Chemistry, 103 (2018), 34-43.
100. Bonengel, S., Jelkmann, M., Abdulkarim, M., Gumbleton, M., Reinstadler, V., Oberacher, H., Prüfert, F., Bernkop-Schnürch, A.*
Impact of Different Hydrophobic Ion Pairs of Octreotide on its Oral Bioavailability in Pigs.
Journal of Controlled Release, 10 (2018), 21-29.
99. Arnhard, K., Pitterl, F., Sperner-Unterweger, B., Fuchs, D., Koal, T., Oberacher, H.*
A Validated Liquid Chromatography-High Resolution-Tandem Mass Spectrometry Method for the Simultaneous Quantitation of Tryptophan, Kynurenine, Kynurenic Acid and Quinolinic Acid in Human Plasma.
Electrophoresis, 39 (2018), 1171-1180.
98. Gerner, R. R., Klepsch, V., Macheiner, S., Arnhard, K., Adolph, A. E., Grander, C., Wieser, V., Pfister, A., Moser, P., Hermann-Kleiter, N., Baier, G., Oberacher, H., Tilg, H., Moschen, A. R.*
NAD Metabolism Fuels Human and Mouse Intestinal Inflammation.
Gut, 67 (2018), 1813-1823.
97. Ortner, N. J., G. Bock, G., Dougalis, A., Kharitonova, M., Duda, M., J., Tuluc, P., Pomberger, T., Stefanova, N., Pitterl, F., Ciossek, T., Oberacher, H., Draheim, H. J., Liss, B., Striessnig, J.*
Lower Affinity of Isradipine for L-type Ca²⁺ Channels during Substantia Nigra Dopamine Neuron-like Activity: Implications for Neuroprotection in Parkinson's Disease.
The Journal of Neuroscience, 37 (2017), 6761-6777.
96. Doppler, C., Arnhard, K., Dumfarth, J., Heinz, K., Messner, B., Stern, C., Koal, T., Klavins, K., Danzl, K., Pitterl, F., Grimm, M., Oberacher, H., Bernhard, D.*
Metabolomic Profiling of Ascending Thoracic Aortic Aneurysms and Dissections - Implications for Pathophysiology and Biomarker Search.
PLOS One, 12 (2017), e0176727.

95. Quandt, D., Zucht, H.-D., Amann, A., Wulf-Goldenberg, A., Borrebaeck, C., Cannarile, M., Lambrechts, D., Oberacher, H., Garrett, J., Nayak, T., Kazinski, M., Massie, C., Schwarzenbach, H., Maio, M., Prins, R., Wendik, B., Hockett, R., Enderle, D., Zwierzina, H., Seliger, B.*
Implementing Liquid Biopsies into Clinical Decision Making for Cancer Immunotherapy.
Oncotarget, 8 (2017), 48507-48520.
94. Oberguggenberger, A., Meraner, V., Sztankay, M., Beer, B., Oberacher, H., Weigl, G., Kemmler, G., Czech, T., Holzner, B., Wildt, L., Sperner-Unterweger, B., Daniaux, M., Hubalek, M.*
Can We Use Gonadotropin Plasma Concentration as Surrogate Marker for BMI-related Incomplete Estrogen Suppression in Breast Cancer Patients Receiving Anastrozole?
BMC Cancer, 17 (2017), 226.
93. Oberacher, H., Arnhard, K., Linhart, C., Diwo, A., Marksteiner, J., Humpel, C.*
Targeted Metabolomic Analysis of Soluble Lysates from Platelets of Patients with Mild Cognitive Impairment and Alzheimer's Disease Compared to Healthy Controls: Is PC aeC40:4 a Promising Diagnostic Tool?.
Journal of Alzheimer's Disease, 57 (2017), 493-504.
92. Lawton, Z. E., Traub, A., Fatigante, W. L., Mancias, J., O'Leary, A. E., Hall, S. E., Wieland, J. R., Oberacher, H., Gizzi, M. C., Mulligan, C. C.*
Analytical Validation of a Portable Mass Spectrometer Featuring Interchangeable, Ambient Ionization Sources for High Throughput Forensic Evidence Screening.
Journal of the American Society for Mass Spectrometry, 28 (2017), 1048-1059.
91. Scharinger, B., Messner, B., Türkcan, A., Schuster, D., Vuorinen, A., Pitterl, F., Heinz, K., Arnhard, K., Laufer, G., Grimm, M., Stuppner, H., Oberacher, H., Eller, P., Ritsch, A., Bernhard, D.*
Leoligin, the Major Lignan from Edelweiss, Inhibits 3-hydroxy-3-methyl-glutaryl-CoA Reductase and Reduces Cholesterol Levels in ApoE ^{-/-} Mice.
Journal of Molecular and Cellular Cardiology, 99 (2016), 35-46.
90. Pitterl, F., Köb, S., Pitterle, J., Steger, J., Oberacher, H.*
Applying Low-Resolution Tandem Mass Spectrometry with Subsequent Library Search for Reliable Compound Identification in Systematic Toxicological Analysis.
LCGC, 29 (2016), 419-427.
89. Kaloudi-Chantzea, A., Martinou, E., Seintis, K., Karakostas, N., Giastas, P., Pitterl, F., Oberacher, H., Fakis, M., Pistolis, G.*
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88. Steger, J., Arnhard, K., Haslacher, S., Geiger, K., Singer, K., Schlapp, M., Pitterl, F., Oberacher, H.*
Successful Adaption of a Forensic Toxicological Screening Workflow Employing Non-targeted Liquid Chromatography-Tandem Mass Spectrometry to Water Analysis.
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87. Oberacher, H.*, Arnhard, K.

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85. Karakostas, N., Kaloudi-Chantzea, A., Martinou, E., Seintis, K., Pitterl, F., Oberacher, H., Fakis, M., Kallitsis, J. K., Pistolis, G.*
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84. Oberacher, H.* , Arnhard, K.
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82. Oberacher, H.* , Pitterl, F., Chervet, J.-P.
Omics Applications of Electrochemistry/Mass Spectrometry - A Review.
LCGC, 28 (2015), 138-150.
81. Oberacher, H.* , Erb, R., Plattner, S., Chervet, J.-P.
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Trends in Analytical Chemistry, 70 (2015), 100-111.
80. O'Leary, A. E., Oberacher, H., Hall, S. E., Mulligan, C. C.*
Combining a Portable Tandem Mass Spectrometer with Automated Library Searching - An Important Step Towards Streamlined, On-Site Identification of Forensic Evidence.
Analytical Methods, 7 (2015), 3331-3339.
79. Arnhard, K., Gottschall, A., Pitterl, F., Oberacher, H.*
Applying 'Sequential Windowed Acquisition of All Theoretical Fragment Ion Mass Spectra' (SWATH) for Systematic Toxicological Analysis with Liquid Chromatography – High-Resolution Tandem Mass Spectrometry.
Analytical and Bioanalytical Chemistry, 407 (2015), 405-414.
78. Oberguggenberger, A., Goebel, G., Beer, B., Oberacher, H., Meraner, V., Sztankay, M., Sperner-Unterweger, B., Zeimet, A.G., Marth, C., Hubalek, M., Holzner, B.*
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Does Obesity Interfere With Anastrozole Treatment? Positive Association Between Body Mass Index and Anastrozole Plasma Levels.
Clinical Breast Cancer, 14 (2014), 291-296.
76. Plattner, S., Erb, R., Chervet, J.-P., Oberacher, H.*
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Analytical and Bioanalytical Chemistry, 406 (2014), 213-224.
75. Beer, B., Erb, R., Pavlic, M., Ulmer, H., Giacomuzzi, S., Riemer, Y., Oberacher, H.*
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74. Oberacher, H.*, Pitterl, F.
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73. Erb, R., Oberacher, H.*
Comparison of Mobile Phase Systems Commonly Applied in Liquid Chromatography-Mass Spectrometry of Nucleic Acids.
Electrophoresis, 35 (2014), 1226-1235.
72. Oberacher, H.*, Pitterl, F., Plattner, S., Erb, R.
Mass Spectrometric Methods for Monitoring Processes in Electrochemical Cells.
Mass Spectrometry Reviews, 34 (2015), 64-92.
71. Oberacher, H.*
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70. Oberacher, H.*, Whitley, G., Berger, B.
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Journal of Mass Spectrometry, 48 (2013), 487-496.
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68. Oberacher, H.*, Schubert, B., Libiseller, K., Schweissgut A.
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67. Oberguggenberger, A., Sztankay, M., Beer, B., Schubert, B., Meraner, V., Oberacher, H., Kemmler, G., Giesinger, J., Gamper, E., Sperner-Unterweger, B., Marth, C., Holzner, B., Hubalek, M.*
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66. Beer, B., Krjutškov, K., Erb, R., Viltrop, T., Oberacher, H.*
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Analyst, 137 (2012), 5325-5333.
65. Niederstätter, H., Rampl, G., Erhart, D., Pitterl, F., Oberacher, H., Hausner, I., Gassner, C., Schennach, H., Berger, B.,* Parson, W.
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Analytical and Bioanalytical Chemistry, 404 (2012), 1571-1579.
63. Erb, R., Leithner, K., Bernkop-Schnürch, A., Oberacher, H.*
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62. Oberacher, H.*, Pitterl, F., Siapi, E., Steele, B. R., Letzel, T., Grosse, S., Poschner, B., Tagliaro, F., Gottardo, R., Chacko, S. A., Josephs J. L.
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61. Plattner, S., Erb, R., Pitterl, F., Brouwer, H.-J., Oberacher, H.*
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59. Würtinger, P., Oberacher, H.*

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Drug Testing and Analysis, 4 (2012), 235-241.
58. Defrancesco, M., Niederstätter, H., Parson, W., Oberacher, H., Hinterhuber, H., Canazei, M., Bidner, J., Deisenhammer, E. A., Kemmler, G., Weiss, E. M., Marksteiner, J.*
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55. Beer, B., Erb, R., Pitterl, F., Niederstätter, H., Maroñas Amigo, O., Gesteira, A., Carracedo, A., Piatkov, I., Oberacher, H.*
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Analytical and Bioanalytical Chemistry, 400 (2011), 2361-2370.
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Analytical and Bioanalytical Chemistry, 400 (2011), 2641-2648.
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International Journal of Legal Medicine, 121 (2007), 57-67.
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