

# Priv.-Doz. Mag. Dr. Herbert Oberacher

Institute of Legal Medicine  
Innsbruck Medical University  
Muellerstrasse 44  
6020 Innsbruck  
Austria  
Tel: +43-512-9003-70639  
E-mail: [herbert.oberacher@i-med.ac.at](mailto:herbert.oberacher@i-med.ac.at)

## List of Publications

### a) Summary

Journal articles (peer-reviewed)	59
Other scientific publications (book chapters, meeting abstracts, book review)	24
Poster presentations	38
Oral presentations	52
Patents	3

### b) Journal articles

59. Defrancesco, M., Niederstätter, H., Parson, W., Oberacher, H., Hinterhuber, H., Canazei, M., Bidner, J., Deisenhammer, E. A., Kemmler, G., Weiss, E. M., Marksteiner, J.\*  
Influence of Serotonin Transporter Genotype and Catechol-O-Methyltransferase Val158Met Polymorphism on Recognition of Emotional Faces.  
Journal of the International Neuropsychological Society, 2011, in press.
58. Würtinger, P., Oberacher, H.\*  
Evaluation of the Performance of a Tandem Mass Spectral Library with Mass Spectral Data Extracted from Literature.  
Drug Testing and Analysis, 2011 in press.
57. Oberguggenberger, A., Hubalek, M., Sztankay, M., Meraner, V., Beer, B., Oberacher, H., Giesinger, J., Kemmler, G., Egle, D., Gamper, E., Sperner-Unterweger, B., Holzner, B.  
Is the Toxicity of Adjuvant Aromatase Inhibitor Therapy Underestimated? Complementary Information from Patient-Reported Outcomes (PROs).  
Breast Cancer Research and Treatment, 128 (2011) 553-561.
56. Beer, B., Plattner, S., Hubalek, M., Oberguggenberger, A., Meraner, V., Achleitner, R., Oberacher, H.\*  
CYP2D6 Genotyping in Breast Cancer Patients by Liquid Chromatography-Electrospray Ionization Mass Spectrometry.  
Hormone Molecular Biology and Clinical Investigation, 6 (2011), 247-253.

55. Beer, B., Erb, R., Pitterl, F., Niederstätter, H., Maroñas Amigo, O., Gesteira, A., Carracedo, A., Piatkov, I., Oberacher, H.\*  
CYP2D6 Genotyping by Liquid Chromatography-Electrospray Ionization Mass Spectrometry.  
Analytical and Bioanalytical Chemistry, 400 (2011), 2361-2370.
54. Oberacher, H.\*, Dresen, S., Weinmann, W.  
Quality Evaluation of Tandem Mass Spectral Libraries.  
Analytical and Bioanalytical Chemistry, 400 (2011), 2641-2648.  
Due to its high scientific interest and excellent scientific content the paper was selected as "free hot article".
53. Schubert, B., Oberacher, H.\*  
Impact of Solvent Conditions on Separation and Detection of Basic Drugs by Micro Liquid Chromatography-Mass Spectrometry under Overloading Conditions.  
Journal of Chromatography A, 1218 (2011), 3413-3422.
52. Oberacher, H.\*, Pitterl, F.  
Tandem Mass Spectrometric De Novo Sequencing of Oligonucleotides Using Simulated Annealing for Stochastic Optimization.  
International Journal of Mass Spectrometry, 304 (2011), 124-129.
51. Beer, B., Schubert, B., Oberguggenberger, A., Meraner, V., Hubalek, M., Oberacher, H.\*  
Development and Validation of a Liquid Chromatography-Tandem Mass Spectrometry Method for the Simultaneous Quantification of Tamoxifen, Anastrozole and Letrozole in Human Plasma and its Application to a Clinical Study.  
Analytical and Bioanalytical Chemistry, 398 (2010), 1791-1800.
50. Pitterl, F., Schmidt, K., Huber, G., Zimmermann, B., Delport, R., Amory, S., Ludes, B., Oberacher, H.\*, Parson, W.\*  
Increasing the Discrimination Power of Forensic STR Testing by Employing High-Performance Mass Spectrometry, as Illustrated in Indigenous South African and Central Asian Populations.  
International Journal of Legal Medicine, 124 (2010), 551-558.
49. Pavlic, M., Schubert, B., Libiseller, K., Oberacher, H.\*  
Automated Compound Identification in Forensic Casework Samples by Flow-Injection ESI-QqTOF-MS(-MS) Combined with Library Search.  
Forensic Science International, 197 (2010), 40-47.
48. Beer, B.\*, Libiseller, K., Oberacher, H., Pavlic, M.  
A Fatal Intoxication Case with Topiramate.  
Forensic Science International, 202 (2010), e9-e11.
47. Pitterl, F., Chervet, J.-P., Oberacher, H.\*  
Electrochemical Simulation of Oxidation Processes Involving Nucleic Acids Online Monitored with Electrospray Ionization-Mass Spectrometry.  
Analytical and Bioanalytical Chemistry, 397 (2010), 1203-1215.  
Due to its high quality the paper was rated as "paper in forefront".

46. Oberacher, H.\*  
Frontiers of Mass Spectrometry in Nucleic Acids Analysis.  
European Journal of Mass Spectrometry, 16 (2010), 351-365.
45. Baumann, A., Lohmann, W., Schubert, B., Oberacher, H., Karst, U.\*  
Metabolic Studies of Tetrazepam Based on Electrochemical Simulation in Comparison to In Vivo and In Vitro Methods.  
Journal of Chromatography A, 1216 (2009), 3192-3198.
44. Oberacher, H.\*, Pitterl, F.  
On the Use of ESI-QqTOF-MS/MS for the Comparative Sequencing of Nucleic Acids.  
Biopolymers, 91 (2009), 401-409.
43. Oberacher, H.\*, Pavlic, M., Libiseller, K., Schubert, B., Schuhmacher, R., Sulyok, M., Berthiller, F., Csaszar, E., Köfeler, H. C.  
On the Inter-instrument and the Inter-laboratory Transferability of a Tandem Mass Spectral Reference Library. 2. Optimization and Characterisation of the Search Algorithm.  
Journal of Mass Spectrometry, 44 (2009), 494-502.
42. Oberacher, H.\*, Pavlic, M., Libiseller, K., Schubert, B., Schuhmacher, R., Sulyok, M., Berthiller, F., Csaszar, E., Köfeler, H. C.  
On the Inter-instrument and the Inter-laboratory Transferability of a Tandem Mass Spectral Reference Library. 1. Results of an Austrian Multicenter Study.  
Journal of Mass Spectrometry, 44 (2009), 485-493.
41. Schubert, B., Pavlic, M., Libiseller, K., Oberacher, H.\*  
Unraveling the Metabolic Transformation of Tetrazepam to Diazepam with Mass Spectrometric Methods.  
Analytical and Bioanalytical Chemistry, 392 (2008), 1299-1308.
40. Pitterl, F., Niederstätter, H., Huber, G., Zimmermann, B., Oberacher, H.\*, Parson, W.\*  
The Next Generation of DNA Profiling – Short Tandem Repeat Typing by Multiplexed Polymerase Chain Reaction - Ion-Pair Reversed-Phase Liquid Chromatography - Electrospray Ionization Time-of-Flight Mass Spectrometry.  
Electrophoresis, 29 (2008), 4739-4750.
39. Oberacher, H.  
On the Use of Different Mass Spectrometric Techniques for the Characterization of Sequence Variability in Genomic DNA.  
Invited review to Analytical and Bioanalytical Chemistry, 391 (2008), 135-149.
38. Oberacher, H., Pitterl, F., Huber, G., Niederstätter, H., Steinlechner, M., Parson, W.\*  
Increased Forensic Efficiency of DNA Fingerprints through Simultaneous Resolution of Length and Nucleotide Variability by High-Performance Mass Spectrometry.  
Human Mutation, 29 (2008), 427-432.
37. Oberacher, H., Parson, W.\*

Forensic DNA Fingerprinting by Liquid Chromatography – Electrospray Ionization Mass Spectrometry.  
Invited review to *BioTechniques*, 43 (2007), vii-xiii.

36. Weiss, E. M.\*, Stadlmann, E., Kohler, C. G., Brensinger, C., Nolan, K. A., Oberacher, H., Parson, W., Pitterl, F., Niederstätter, H., Hinterhuber, H., Marksteiner, J.  
Differential Effect of Catechol-O-Methyltransferase Val158Met Genotype on Emotional Recognition Abilities in Healthy Men and Women.  
*Journal of the International Neuropsychological Society*, 13 (2007), 881-887.
35. Oberacher, H., Niederstätter, H., Parson, W.\*  
Liquid Chromatography–Electrospray Ionization Mass Spectrometry for Simultaneous Detection of mtDNA Length and Nucleotide Polymorphisms.  
*International Journal of Legal Medicine*, 121 (2007), 57-67.
34. Oberacher, H., Niederstätter, H., Pitterl, F., Parson, W.\*  
Profiling 627 Mitochondrial Nucleotides via the Analysis of a 23-plex Polymerase Chain Reaction by Liquid Chromatography-Electrospray Ionization Time-of-Flight Mass Spectrometry.  
*Analytical Chemistry*, 78 (2006), 7816-7827.
33. Oberacher, H.\*, Pitterl, F., Niederstätter, H., Weiss, E. M., Stadlmann, E., Marksteiner, J., Parson, W.  
Direct Molecular Haplotyping of Multiple Polymorphisms within Exon 4 of the Human Catechol-O-Methyltransferase Gene by Liquid Chromatography-Electrospray Ionization Time-of-Flight Mass Spectrometry.  
*Analytical and Bioanalytical Chemistry*, 386 (2006), 83-91.
32. Pavlic, M., Libiseller, K., Oberacher, H.\*  
The Combined Use of ESI-QqTOF-MS and ESI-QqTOF-MS/MS for the Qualitative Analysis of Drugs.  
*Analytical and Bioanalytical Chemistry*, 386 (2006), 69-82.
31. Toll, H., Berger, P.\*, Hofmann, A., Hildebrandt, A., Oberacher, H., Lenhof, H. P., Huber, C. G.\*  
Glycosylation Patterns of Human Chorionic Gonadotropin (hCG) Revealed by Liquid Chromatography-Mass Spectrometry and Bioinformatics.  
*Electrophoresis*, 27 (2006), 2734-2746.
30. Oberacher, H.\*, Niederstätter, H., Huber, C. G., Parson, W.  
Accurate Determination of Allelic Frequencies in Mitochondrial DNA Mixtures by Electrospray Ionization Time-of-Flight Mass Spectrometry.  
*Analytical and Bioanalytical Chemistry*, 384 (2006) 1155-1163.
29. Oberacher, H.\*, Niederstätter, H., Casetta, B., Parson, W.  
Some Guidelines for the Analysis of Genomic DNA by PCR-LC-ESI-MS.  
*Journal of the American Society for Mass Spectrometry*, 17 (2006) 124-129.
28. Toll, H., Oberacher, H., Swart, R., Huber C. G.\*  
Separation, Detection, and Identification of Peptides by Ion-pair Reversed-Phase High-Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry at High and Low pH.

Journal of Chromatography A, 1079 (2005) 274-286.

27. Oberacher, H.\*, Niederstätter, H., Casetta, B., Parson, W.  
Detection of DNA Sequence Variations in Homo- and Heterozygous Samples via Accurate Molecular Mass Measurements with Electrospray Ionization Time-of-Flight Mass Spectrometry.  
Analytical Chemistry, 77 (2005), 4999-5008.
26. Oberacher, H.\*, Niederstätter, H., Parson, W.  
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Journal of Mass Spectrometry, 40 (2005), 932-945.
25. Hölzl, G., Oberacher, H., Pitsch, S., Stutz, A., Huber, C. G.\*  
Analysis of Biological and Synthetic Ribonucleic Acids by Liquid Chromatography-Mass Spectrometry Using Monolithic Capillary Columns.  
Analytical Chemistry, 77 (2005), 673-680.
24. Niederstätter, H., Berger B., Oberacher, H., Brandstätter, A., Huber, C. G., Parson W.\*  
Separate Analysis of DYS385a and b versus Conventional DYS385 Typing: Is There Forensic Relevance?  
International Journal of Legal Medicine, 119 (2005), 1-9.
23. Oberacher, H., Parson, W., Hölzl, G., Oefner, P. J., Huber, C. G.\*  
Optimized Suppression of Adducts in Polymerase Chain Reaction Products for Semi-Quantitative SNP Genotyping by Liquid Chromatography-Mass Spectrometry.  
Journal of the American Society for Mass Spectrometry, 15 (2004), 1897-1906.
22. Sanchez, J. J.\*, Brión, M., Parson, W., Blanco-Verea, A. J., Børsting, C., Lareu, M., Niederstätter, H., Oberacher, H., Morling, N., Carracedo, A.  
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Forensic Science International, 1040 (2004), 241-250.
21. Oberacher, H., Premstaller, A., Huber, C. G.\*  
Characterization of Some Physical and Chromatographic Properties of Monolithic Poly(styrene-co-divinylbenzene) Columns.  
Journal of Chromatography A, 1030 (2004), 201-208.
20. Oberacher, H., Mayr, B. M., Parson, W., Oefner, P. J., Huber, C. G.\*  
Applicability of Tandem Mass Spectrometry to the Automated Comparative Sequencing of Long-chain Oligonucleotides.  
Journal of the American Society for Mass Spectrometry, 15 (2004), 510-522.
19. Oberacher, H.\*, Mayr B. M., Huber C. G.  
Automated de novo Sequencing of Nucleic Acids by Liquid Chromatography - Tandem Mass Spectrometry.  
Journal of the American Society for Mass Spectrometry, 15 (2004), 32-42.
18. Oberacher, H.\*, Huber, C. G.

Genotyping of Single Nucleotide Polymorphisms by Liquid Chromatography - Electrospray Ionization Mass Spectrometry.

Analytical and Bioanalytical Chemistry, 376 (2003), 292-294.

17. Oberacher, H., Huber, C. G., Oefner, P. J.\*  
Mutation Screening by Ion-Pair Reversed-Phase High-Performance Liquid Chromatography - Electrospray Ionization Mass Spectrometry (ICEMS).  
Human Mutation, 21 (2003), 86-95.
16. Oberacher, H., Walcher, W., Huber, C. G.\*  
Effect of Instrument Tuning on Detectability of Biopolymers in Electrospray Ionization Mass Spectrometry.  
Journal of Mass Spectrometry, 38 (2003), 108-116.
15. Berger, B., Hölzl, G., Oberacher, H., Niederstätter, H., Huber, C. G., Parson, W.\*  
SNP Genotyping by On-Line Liquid Chromatography-Mass Spectrometry in Forensic Science with the Y-chromosomal Locus M9.  
Journal of Chromatography B, 782 (2002), 89-97.
14. Walcher, W., Oberacher, H., Troiani, S., Hölzl, G., Oefner, P. J., Zolla, L., Huber, C. G.\*  
Monolithic Capillary Columns for Liquid Chromatography-Electrospray Ionization Mass Spectrometry Using in Proteomic and Genomic Research.  
Journal of Chromatography B, 782 (2002), 111-125.
13. Premstaller, A., Oefner, P. J. \*, Oberacher, H., Huber, C. G.  
Capillary Array High-Performance Liquid Chromatography of Nucleic Acids and Proteins.  
Analytical Chemistry, 74 (2002), 4688-4693.
12. Premstaller, A., Oberacher, H., Rickert, A., Huber, C. G., Oefner, P. J.\*  
Multiplex Analysis of Single-Nucleotide Extension Products on a 16-Capillary Danaturing High-Performance Chromatography Array.  
Genomics, 79 (2002), 793-798.
11. Oberacher, H., Oefner, P. J., Hölzl, G., Premstaller, A., Davis, K., Huber, C. G.\*  
Re-Sequencing of Multiple Single Nucleotide Polymorphisms by Liquid Chromatography-Electrospray Ionization Mass Spectrometry.  
Nucleic Acids Research 30 (2002) e67.
10. Huber, C. G.\*, Oberacher, H.  
Analysis of Nucleic Acids by On-Line Liquid Chromatography-Electrospray Ionization Mass Spectrometry.  
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9. Oberacher, H., Huber, C. G.\*  
Capillary Monoliths for the Analysis of Nucleic Acids by High-Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry.  
Trends in Analytical Chemistry, 21 (2002), 166-174.

8. Oberacher, H., Wellenzohn, B., Huber, C. G.\*  
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Analytical Chemistry, 74 (2002), 211-218.
  
7. Premstaller, A., Xiao, W., Oberacher, H., O'Keefe, M., Stern, D., Willis, T., Huber, C. G., Oefner, P. J.\*  
Temperature-Modulated Array High-Performance Liquid Chromatography.  
Genome Research, 11 (2001) 1944-1951.
  
6. Oberacher, H., Parson, W., Mühlmann, R., Huber, C. G.\*  
Analysis of Polymerase Chain Reaction Products by On-Line Liquid Chromatography-Mass Spectrometry for Genotyping of Polymorphic Short Tandem Repeat Loci.  
Analytical Chemistry, 73 (2001) 5109-5115.
  
5. Oberacher, H., Oefner, P. J., Parson, W., Huber, C. G.\*  
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Angewandte Chemie, 113 (2001) 3945-3948.  
Angewandte Chemie Int. Ed. 40 (2001) 3828-3830.
  
4. Premstaller, A., Oberacher, H., Walcher, W., Timperio, A. M., Zolla, L., Chervet, J.-P., Huber, C. G.\*  
High-Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry Using Monolithic Capillary Columns for Proteomic Studies.  
Analytical Chemistry, 73 (2001) 2390-2396.
  
3. Huber, C. G., Premstaller, A., Oberacher, H., Xiao, W., Bonn, G. K., Oefner P. J.\*  
Mutation Detection by Capillary Denaturing High-Performance Liquid Chromatography Using Monolithic Columns.  
Journal of Biochemical and Biophysical Methods, 47 (2001) 5-19.
  
2. Premstaller, A., Oberacher H., Huber, C. G.\*  
High-Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry of Nucleic Acids Using Monolithic Capillary Columns.  
Analytical Chemistry, 72 (2000) 4386-4393.
  
1. Oberacher, H., Krajete, A., Parson, W., Huber, C. G. \*  
Preparation and Evaluation of Packed Capillary Columns for the Separation of Nucleic Acids by Ion-Pair High-Performance Liquid Chromatography.  
Journal of Chromatography A, 893 (2000) 23-35.

### **c) Other scientific publications**

24. Oberacher, H.  
Wiley Registry of Tandem Mass Spectral Data, MSforID.  
John Wiley & Sons, Hoboken, NJ, USA, ISBN: 978-1-1180-3744-7, 2011.

23. Oberacher, H.  
MSforID: a Robust and Transferable Tandem Mass Spectral Library.  
Meeting abstract of the XVII. Symposium der GTFCH, Mosbach, Germany, April 15-16, 2011.
22. Schubert, B., Oberacher, H.  
On the Development of a Robust and Transferable Tandem Mass Spectral Library for the Identification of Small Bioorganic Molecules.  
Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry, Denver, USA, June 5-9, 2011.
21. Erb, R., Plattner, S., Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Covalent DNA Adduct Formation Monitored with Liquid Chromatography/Mass Spectrometry.  
Proceedings of the 59<sup>th</sup> ASMS Conference on Mass Spectrometry, Denver, USA, June 5-9, 2011.
20. Meraner, V., Oberguggenberger, A., Giesinger, J., Sperner-Unterweger, B., Kemmler, G., Hubalek, M., Beer, B., Oberacher, H., Holzner, B.  
Patient-reported Outcomes in Breast Cancer Patients Undergoing Endocrine Therapy (PRO-BETH): Adherence Rates and Symptom Burden over the Disease Trajectory.  
Journal of Psychosomatic Research, 68 (2010) 648.
19. Oberguggenberger, A., Meraner, V., Giesinger, J., Sztankay, M., Sperner-Unterweger, B., Hubalek, M., Beer, B., Oberacher, H., Holzner, B.  
Patient-reported Outcomes in Breast Cancer Patients Undergoing Endocrine Therapy (PRO-BETH): Comparison of Methods for Adherence Evaluation.  
Journal of Psychosomatic Research, 68 (2010) 652.
18. Beer, B., Schubert, B., Meraner, V., Oberguggenberger, A., Holzner, B., Hubalek, M., Oberacher, H.  
A Validated Analytical Method for the Simultaneous Quantification of Tamoxifen, Endoxifen, Anastrozole and Letrozole.  
EJC Supplements, 8 (2010) 69.
17. Pitterl, F., Erb, R., Plattner, S., Chervet, J.-P., Oberacher, H.\*  
Insights into DNA Damage by Electrochemistry/Liquid Chromatography/Mass Spectrometry.  
Proceedings of the 58<sup>th</sup> ASMS Conference on Mass Spectrometry, Salt Lake City, USA, May 23-27, 2010.
16. Oberacher, H., Scheithauer, R., Parson, W.  
Die Masse macht's.  
Labor&more, 2.10 (2010) 20-24.
15. Schubert, B., Pavlic, M., Libiseller, K., Oberacher, H.  
Über den Tetrazepam-Metabolismus im menschlichen Körper.  
Meeting abstract of the XVI. Symposium der GTFCH, Mosbach, Germany, April 4, 2009.
14. Oberacher, H., Pavlic, M., Libiseller, K., Schubert, B.  
Über die Entwicklung und Anwendung einer massenspektrometrischen Referenzspektrenbibliothek zur Identifizierung von forensisch-relevanten Substanzen mittels MS/MS.

Meeting abstract of the XV. Symposium der GTFCH, Mosbach, Germany, April 21, 2007.

13. Oberacher, H.  
Die genaueste DNA-Waage der Welt.  
chemiereport.at, 1/07 (2007) 30.
12. Libiseller, K., Pavlic, M., Oberacher, H.  
Erstellung einer ESI-QqTOF-MS/MS Spektrenbibliothek zum schnellen Nachweis forensisch relevanter Wirkstoffe.  
Meeting abstract of the 85. Jahrestagung der Deutschen Gesellschaft für Rechtsmedizin, Rechtsmedizin, 16 (2006) 266.
11. Toll, H., Berger, P., Hofmann, A., Hildebrandt, A., Oberacher, H., Lenhof, H. P., Huber, C. G.\*  
Glycosylation Patterns of Proteins Studied by Liquid Chromatography-Mass Spectrometry and Bioinformatic Tools.  
Dagstuhl Seminar Proceedings 05471: Computational Proteomics. C. Huber, K. Reinhardt & O. Kohlbacher (Eds.), 2005, <http://drops.dagstuhl.de/portals/index.php?semnr=05471>.
10. Niederstätter, H., Oberacher, H.\*, Parson, W.  
Highly Efficient Semi-quantitative Genotyping of Single Nucleotide Polymorphisms in Mitochondrial DNA Mixtures by Liquid Chromatography-Electrospray Ionization Time-of-Flight Mass Spectrometry.  
Meeting abstract of the 21<sup>st</sup> International Congress of the International Society for Forensic Genetics, Ponta Delgada, Portugal, September 13-17, 2005.
9. Oberacher, H.\*, Niederstätter, H., Casetta, B., Parson, W.  
Simultaneous Detection of DNA Length and Sequence Variations by Liquid Chromatography-Electrospray Ionization Time-of-Flight Mass Spectrometry.  
Meeting abstract of the 21<sup>st</sup> International Congress of the International Society for Forensic Genetics, Ponta Delgada, Portugal, September 13-17, 2005.
8. Oberacher, H.\*, Niederstätter, H., Pitterl, F., Casetta, B., Parson, W.  
Highly Accurate Detection of DNA Sequence Variations by Liquid Chromatography Electrospray Ionization Time-of-Flight Mass Spectrometry.  
Proceedings of the 53<sup>rd</sup> ASMS Conference on Mass Spectrometry, San Antonio, USA, June 5-9, 2005.
7. Oberacher, H.\*, Parson, W.  
Liquid Chromatography–Mass Spectrometry of Nucleic Acids.  
in Walker, J.M., Rapley, R. (Editors), *The Medical Biomethods Handbook*, Humana Press, Totowa, NJ, 2005, 347-374.
6. Niederstätter, H., Berger, B., Oberacher, H., Brandstätter, A., Huber, C. G., Parson W.  
Evaluation of the Forensic Usefulness of the Separate Analysis of DYS385a and DYS385b in an Austrian Population Sample.  
Meeting abstract of the 20<sup>th</sup> International Congress of the International Society for Forensic Genetics, Arcachon, France, September 9-13, 2003.

5. Oberacher, H., Toll, H., Huber, C. G.  
Book Review: Proteomics in Practice: A Laboratory Manual of Proteome Analysis. By Reiner Westermeier, Tom Naven.  
Journal of Separation Science, 26 (2003), 969.
4. Huber, C. G., Oberacher, H.  
Nucleic Acid Analysis.  
in Svec, F., Tennikova, T. B., Deyl, Z. (Editors), *Monolithic Materials, Preparation, Properties and Applications*, Journal of Chromatography Library – Volume 67, Elsevier, Amsterdam, The Netherlands, 2003, 417-456.
3. Huber, C. G., Oberacher, H., Premstaller, A., Oefner, P. J.  
Erhöhung von Probendurchsatz und Informationsgehalt der denaturierenden Hochleistungsflüssigkeitschromatographie in der Analyse von Mutationen in Krebsgenen.  
Meeting abstract of the "Präsymptomatische Tumordiagnostik", Senftenberg, Germany, October 4-5, 2001.
2. Walcher, W., Oberacher, H., Timperio, A.-M., Zolla, L., Huber, C. G.  
HPLC-ESI-MS Using Monolithic Capillary Columns for Proteomic Studies.  
24<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 20-24, 2001, <http://www.meetingabstracts.com>.
1. Oberacher, H., Parson, W., Huber, C. G.  
HPLC-ESI-MS as a Tool for Genome Analysis.  
24<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 20-24, 2001, <http://www.meetingabstracts.com>.

#### d) Posters

38. Erb, R., Plattner, S., Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Covalent DNA Adduct Formation Monitored with Liquid Chromatography/Mass Spectrometry.  
59<sup>th</sup> ASMS Conference on Mass Spectrometry, Denver, USA, June 5-9, 2011.
37. Oberacher, H.  
MSforID: a Robust and Transferable Tandem Mass Spectral Library.  
XVII. Symposium der GTFCH, Mosbach, Germany, April 15-16, 2011.
36. Plattner, S., Erb, R., Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Covalent DNA Adduct Formation Monitored with Liquid Chromatography/Mass Spectrometry.  
ANAKON 2011, Zürich, Switzerland, March 22-25, 2011.
35. Oberacher, H.  
Guidelines for the Creation of a Transferable Tandem Mass Spectral Library.  
ANAKON 2011, Zürich, Switzerland, March 22-25, 2011.

34. Oberacher, H., Beer, B., Schubert, B., Plattner, S., Erb, R., Oberguggenberger, A., Meraner, V., Hubalek, M.  
Investigation of Pharmacogenetic Correlations with Mass Spectrometric Methods Exemplified for Breast  
Cancer Therapy with Tamoxifen.  
DGMS Jahrestagung 2011, Dortmund, Germany, February 27 - March 2, 2011.
33. Oberacher, H., Schubert, B., Libiseller, K., Pavlic, M.  
MSforID - Identification of Small Bioorganic Molecules with a Tandem Mass Spectral Library.  
DGMS Jahrestagung 2011, Dortmund, Germany, February 27 - March 2, 2011.
32. Powers, J., Plattner, S., Erb, R., Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Covalent DNA Adduct Formation Monitored with Liquid Chromatography/Mass  
Spectrometry.  
ABRF 2011, San Antonio, TX, USA, February 19-22, 2011.
31. Beer, B., Erb, R., Plattner, S., Pitterl, F., Hubalek, M., Meraner, V., Oberguggenberger, A., Oberacher, H.  
Polymerase Chain Reaction-Liquid Chromatography-Mass Spectrometry – A Convenient and Cost-Effective  
Strategy for CYP2D6 Genotyping.  
1<sup>st</sup> International Symposium of the Journal: Hormone Molecular Biology and Clinical Investigation, Seefeld,  
Austria, September, 11-14, 2010.  
33<sup>rd</sup> Annual CTRC-AACR San Antonio Breast Cancer Symposium, San Antonio, Texas, USA, December, 8-  
12, 2010.
30. Schubert, B., Beer, B., Hubalek, M., Meraner, V., Oberguggenberger, A., Sperner-Unterweger, B.,  
Oberacher, H.  
Phenotype-genotype correlations for breast cancer patients treated with tamoxifen.  
1<sup>st</sup> International Symposium of the Journal: Hormone Molecular Biology and Clinical Investigation, Seefeld,  
Austria, September, 11-14, 2010.  
33<sup>rd</sup> Annual CTRC-AACR San Antonio Breast Cancer Symposium, San Antonio, Texas, USA, December, 8-  
12, 2010.
29. Beer, B., Schubert, B., Meraner, V., Oberguggenberger, A., Holzner, B., Hubalek, M., Oberacher, H.  
A validated analytical method for monitoring the plasma levels of tamoxifen, anastrozole and letrozole in  
patients undergoing endocrine therapy.  
1<sup>st</sup> International Symposium of the Journal: Hormone Molecular Biology and Clinical Investigation, Seefeld,  
Austria, September, 11-14, 2010.  
33<sup>rd</sup> Annual CTRC-AACR San Antonio Breast Cancer Symposium, San Antonio, Texas, USA, December, 8-  
12, 2010.
28. Plattner, S., Erb, R., Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Oxidation Processes Involving Nucleic Acids Online Monitored with  
Electrospray Ionization-Mass Spectrometry.  
6. Wissenschaftliches Symposium der Österreichischen Gesellschaft für Toxikologie (ASTOX), Vienna,  
Austria, February 22-23, 2010.
27. Beer, B., Schubert, B., Meraner, V., Oberguggenberger, A., Holzner, B., Hubalek, M., Oberacher, H.

A Validated Analytical Method for for the Simultaneous Quantification of Tamoxifen, Endoxifen, Anastrozole and Letrozole.

7<sup>th</sup> European Breast Cancer Conference, Barcelona, Spain, March 24-27, 2010.

26. Pitterl, F., Chervet, J.-P., Oberacher, H.  
Electrochemical Simulation of Oxidation Processes Involving Nucleic Acids Online Monitored with Electrospray Ionization-Mass Spectrometry.  
18<sup>th</sup> International Mass Spectrometry Conference, Bremen, Germany, August 30 - September 4, 2009.
25. Monzo, A., Libiseller, K., Oberacher, H.  
Determination of Methadone in Human Urine Using Automated Headspace Solid Phase Dynamic Extraction (HS-SPDE) and Gas Chromatography Mass Spectrometry and its Application in Forensic Toxicology.  
ANAKON 2009, Berlin, Germany, March 17-20, 2009.
24. Schubert, B., Pavlic, M., Libiseller, K., Oberacher, H.  
Metabolic Profiling of Tetrazepam by Liquid Chromatography – Mass Spectrometry.  
8. Iglar MS Tage, Obergurgl, Austria, February 22-25, 2009.
23. Oberacher, H., Pitterl, F., Huber G., Niederstätter, H., Parson, W.  
On the Generation of Highly Informative Genetic Fingerprints via Liquid Chromatography-Mass Spectrometry.  
27<sup>th</sup> International Symposium on Chromatography, Münster, Germany, September 21-25, 2008.
22. Schubert, B., Pavlic, M., Libiseller, K., Oberacher, H.  
Unravelling the Metabolic Pathway between Tetrazepam and Diazepam with Mass Spectrometric Methods.  
DGMS Jahrestagung 2008, Giessen, Germany, March 2-5, 2008.
21. Oberacher, H., Pitterl, F., Niederstätter, H., Parson, W.  
Mass Spectrometry Meets Forensic Genetics: Mitochondrial DNA Profiling by Liquid Chromatography-Electrospray Ionization Time-of-flight Mass Spectrometry.  
DGMS Jahrestagung 2007, Bremen, Germany, March 11-14, 2007.
20. Oberacher, H., Niederstätter, H., Casetta, B., Parson, W.  
Simultaneous Detection of DNA Length and Sequence Variations by Liquid Chromatography Electrospray Ionization Time-of-Flight Mass Spectrometry.  
21<sup>st</sup> International Congress of the International Society for Forensic Genetics, Ponta Delgada, Portugal, September 13-17, 2005.
19. Oberacher, H., Niederstätter, H., Casetta, B., Parson, W.  
Highly Accurate Detection of DNA Sequence Variations by Electrospray Ionization Time-of-Flight Mass Spectrometry.  
6. Iglar MS-Tage, Perspectives in Mass Spectrometry, Innsbruck, Austria, February 16-18, 2005.
18. Toll, H., Oberacher, H., Walcher, W., Huber, C. G.  
Operational Variables for Fast Protein- and Peptide Analysis Using Monolithic Columns.  
28<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques, Philadelphia, USA, June 12-18, 2004.

17. Niederstätter, H., Berger, B., Oberacher, H., Brandstätter, A., Huber, C. G., Parson W.  
Forensic Usefulness of the Separate Analysis of DYS385a and DYS385b in an Austrian Population Sample.  
20<sup>th</sup> International Congress of the International Society for Forensic Genetics, Arcachon, France, September 9-13, 2003.
16. Mayr, B. M., Oberacher, H., Niederstätter, H., Parson, W., Huber, C. G.  
Detection of DNA Sequence Variations Using Liquid Chromatography Hyphenated to Electrospray Ionization Mass Spectrometry.  
27<sup>th</sup> Symposium on High Performance Liquid Phase Separations and Related Techniques, Nice, France, June 15-19, 2003.
15. Oberacher, H., Niederstätter, H., Parson, W., Mayr, B.M., Huber, C. G.  
Detection of DNA Sequence Variations Using Liquid Chromatography Hyphenated To Electrospray Ionization Mass Spectrometry (ICEMS).  
5. Iglar MS-Tage, Perspectives in Mass Spectrometry, Innsbruck, Austria, February 20-21, 2003.
14. Oberacher, H., Hölzl, G., Niederstätter, H., Parson, W., Huber, C. G.  
Fast and Accurate Genotyping of Single Nucleotide Polymorphisms Using ICEMS.  
16<sup>th</sup> International Symposium on Microscale Separations and Analysis, San Diego, USA, January 18–23, 2003.
13. Oberacher, H., Walcher, W., Huber, C. G.  
HPLC-ESI-MS as a Tool in Genomic and Proteomic Research.  
16<sup>th</sup> International Symposium on Microscale Separations and Analysis, San Diego, USA, January 18–23, 2003.
12. Oberacher, H., Hölzl, G., Niederstätter, H., Parson, W., Huber, C. G.  
High-throughput Genotyping of Single Nucleotide Polymorphisms Using the ICEMS Assay.  
24<sup>th</sup> International Symposium on Chromatography, Leipzig, Germany, September , 15-20, 2002.
11. Mayr, B. M., Oberacher, H., Huber, C. G.  
On-Line Capillary Liquid Chromatography – Tandem Mass Spectrometry for the Detection of Mutations in Nucleic Acid Sequences.  
25<sup>th</sup> International Symposium on Capillary Chromatography, Riva del Garda, Italy, May 13-17, 2002.
10. Oberacher, H., Walcher, W., Hölzl, G., Huber, C. G.  
HPLC-ESI-MS as a Tool for Genomics and Proteomics.  
HPLC 2001, Maastricht, The Netherlands, June 18-22, 2001.
9. Hölzl, G., Oberacher, H., Walcher, W., Troiani, S., Huber, C. G.  
Performance of an HPLC-Nano-ESI-MS System Employing Monolithic Capillary Columns for Peptide and Protein Characterization.  
HPLC 2001, Maastricht, The Netherlands, June 18-22, 2001.
8. Walcher, W., Oberacher, H., Timperio, A.-M., Zolla, L., Huber, C. G.

HPLC-ESI-MS Using Monolithic Capillary Columns for Proteomic Studies.

24<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 20-24, 2001.

7. Oberacher, H., Parson, W., Huber, C. G.  
HPLC-ESI-MS as a Tool for Genome Analysis  
24<sup>th</sup> International Symposium on Capillary Chromatography & Electrophoresis, Las Vegas, Nevada, USA, May 20-24, 2001.
6. Walcher, W., Oberacher, H., Timperio, A.-M., Zolla, L., Huber, C. G.  
HPLC-ESI-MS Using Monolithic Capillary Columns for Proteomic Studies.  
4. Iglar MS-Tage, Perspectives in Mass Spectrometry, Innsbruck, Austria, February 8-9, 2001.
5. Oberacher, H., Parson, W., Oefner, P. J., Huber, C. G.  
HPLC-ESI-MS as a Tool for Genome Analysis.  
4. Iglar MS-Tage, Perspectives in Mass Spectrometry, Innsbruck, Austria, February 8-9, 2001.
4. Oberacher, H., Huber, C. G.  
Application of HPLC-ESI-MS/MS for the Detection of Mutations in DNA Sequences.  
4. Iglar MS-Tage, Perspectives in Mass Spectrometry, Innsbruck, Austria, February 8-9, 2001.
3. Huber, C. G., Premstaller, A., Oberacher, H., Xiao, W., Bonn, G. K., Oefner, P. J.  
Mutation Detection by Capillary Denaturing High-Performance Liquid Chromatography Using Monolithic Columns.  
23<sup>rd</sup> International Symposium on Chromatography, London, October 1-5, 2000 und 20th International Symposium on the Separation and Analysis of Proteins, Peptides, and Polynucleotides (ISPPP), Ljubljana, Slovenia, November 5-8, 2000.
2. Oberacher, H., Premstaller, A., Huber, C. G.  
Monolithic Capillary Columns for HPLC-ESI-MS Analysis of Nucleic Acids.  
23<sup>rd</sup> International Symposium on Chromatography, London, October 1-5, 2000 und 20th International Symposium on the Separation and Analysis of Proteins, Peptides, and Polynucleotides (ISPPP), Ljubljana, Slovenia, November 5-8, 2000.
1. Oberacher, H., Premstaller, A., Huber, C. G.  
Monolithic Poly-(Styrene/Divinylbenzene) Capillary Columns for High-Resolution Separations of Biopolymers.  
4. Österreichische Polymertage, Innsbruck, Austria, April 26-28, 2000.

## e) Oral presentations

52. Oberacher, H.  
Fundamentals of Nucleic Acids Fragmentation.  
59<sup>th</sup> ASMS Conference on Mass Spectrometry - Workshop on Nucleic Acids Sequencing, Denver, USA, June 5-9, 2011.

51. Oberacher, H.  
The MSforID library – An Accurate, Robust and Transferable Tandem Mass Spectral Library for the Identification of Small Bioorganic Molecules.  
59<sup>th</sup> ASMS Conference on Mass Spectrometry - Workshop on LC/MS Libraries, Denver, USA, June 5-9, 2011.
50. Schubert, B., Oberacher, H.  
On the Development of a Robust and Transferable Tandem Mass Spectral Library for the Identification of Small Bioorganic Molecules.  
59<sup>th</sup> ASMS Conference on Mass Spectrometry, Denver, USA, June 5-9, 2011.
49. Oberacher, H., Schubert, B., Libiseller, K., Pavlic, M  
Applications of a Tandem Mass Spectral Library in Forensic Toxicology.  
XVII. Symposium der GTFCH, Mosbach, Germany, April 15-16, 2011.
48. Oberacher, H.  
Mass Spectrometry of Nucleic Acids - Principles and Applications in Forensic Genetics.  
Invited presentation at the 8. Jahrestagung der Deutschen Gesellschaft für Kriminalistik, Münster, Germany, April 12-13, 2011.
47. Oberacher, H., Schubert, B., Libiseller, K., Pavlic, M  
Forensic Applications of a Tandem Mass Spectral Library.  
ANAKON 2011, Zürich, Switzerland, March 22-25, 2011.
46. Oberacher, H., Erb, R., Plattner, S., Pitterl, F., Chervet, J.-P.  
Monitoring the Electrochemical Oxidation of Guanine-Containing Nucleic Acid Species by Liquid Chromatography/Mass Spectrometry.  
DGMS Jahrestagung 2011, Dortmund, Germany, February 27 - March 2, 2011.
45. Oberacher, H., Beer, B., Schubert, B., Plattner, S., Erb, R., Oberguggenberger, A., Meraner, V., Hubalek, M.  
Investigation of Pharmacogenetic Correlations with Mass Spectrometric Methods Exemplified for the Breast Cancer Therapy with Tamoxifen.  
MassSpec-Forum-Vienna-2011, Vienna, Austria, February 22, 2011.
44. Oberacher, H.  
Forensic Applications of High Resolution Mass Spectrometry.  
PhD course in Forensic Medicine and Science, Graduate School in Translational Medicine, University of Verona, Verona, Italy, November 15, 2010.
43. Oberacher, H., Erb, R., Plattner, S., Pitterl, F., Chervet, J.-P.  
Insights into DNA Damage by Electrochemistry/Liquid Chromatography/Mass Spectrometry.  
58<sup>th</sup> ASMS Conference on Mass Spectrometry, Salt Lake City, USA, May 23-27, 2010.
42. Oberacher, H.  
Möglichkeiten und Grenzen der Massenspektrometrie in der Nukleinsäureanalytik.  
Invited presentation at the Jubiläumssymposium "30 Jahre ÖQUASTA", Igls, Austria, April 29-30, 2010.

41. Oberacher, H., Schubert, B., Libiseller, K., Pavlic, M  
Identification of Drugs by LC-MS/MS under Data-Dependent Acquisition Control and Automated Database Search.  
Invited presentation at the 6. Wissenschaftliches Symposium der Österreichischen Gesellschaft für Toxikologie (ASTOX), Vienna, Austria, February 22-23, 2010.
40. Oberacher, H.  
LC/MS für die Nukleinsäureanalytik – Quo vadis?  
Invited presentation at the 26. Agilent Forum Analytik 2010, Vienna, Austria, February 9-10, 2010.
39. Oberacher, H., Pitterl, F., Beer, B., Erb, R.  
Mass Spectrometry of Nucleic Acids as a Tool in Pharmaceutical Research.  
Invited presentation at the 2010 Sanibel Meeting "From Structural Biology to Drug Discovery: New Roles for Mass Spectrometry of Nucleic Acids", Sanibel, USA, January 22-25, 2010.
38. Oberacher, H.  
Frontiers of Mass Spectrometry in Nucleic Acids Research.  
Keynote lecture at the 18<sup>th</sup> International Mass Spectrometry Conference, Bremen, Germany, August 30 - September 4, 2009.
37. Oberacher H., Pitterl F., Parson W.  
Simultaneous Characterization of Multiple sequence Variations by Liquid Chromatography/Mass Spectrometry.  
10th International Symposium on Mutations in the Genome, Paphos, Cyprus, May 28-30, 2009.
36. Oberacher, H., Pitterl, F., Huber, G., Niederstätter, H., Parson, W.  
Liquid Chromatography-Mass Spectrometry for the Generation of Highly Informative Genetic Fingerprints.  
ANAKON 2009, Berlin, Germany, March 17-20, 2009.
35. Oberacher, H., Schubert, B., Libiseller, K., Pechriggl, C., Pavlic, M.  
Identification of Drugs and Toxicants in Human Body Fluids by LC-MS/MS under Data-Dependent Acquisition Control and Automated Database Search.  
DGMS Jahrestagung 2009, Konstanz, Germany, March 8-11, 2009.
34. Oberacher, H.  
On the Possibilities and Limitations of LC-MS and -MS/MS for the Characterization of Nucleic Acids.  
Invited presentation at the 8. Iglar MS Tage, Obergurgl, Austria, February 22-25, 2009.
33. Oberacher, H., Pitterl, F.  
Tandem Mass Spectrometric Sequencing of Nucleic Acids.  
MassSpec-Forum-Vienna-2009, Vienna, Austria, February 17, 2009.
32. Schubert, B., Pavlic, M., Libiseller, K., Oberacher, H.  
Unraveling the Metabolic Transformation of Tetrazepam to Diazepam in Human with Mass Spectrometric Methods.

5. Wissenschaftliches Symposium der Österreichischen Gesellschaft für Toxikologie (ASTOX), Vienna, Austria, November 19, 2008.
31. Oberacher, H.  
Characterization of Sequence Variability using Liquid Chromatography-Mass Spectrometry  
Invited presentation at the HUGO Mutation Detection Training Course, Rotterdam, The Netherlands, October 24-28, 2008.
30. Oberacher, H., Schubert, B., Pavlic, M., Libiseller, K.  
On the Use of LC-MS(/MS) to Elucidate the Unexpected Biotransformation of Tetrazepam to Diazepam in Human.  
27<sup>th</sup> International Symposium on Chromatography, Münster, Germany, September 21-25, 2008.
29. Oberacher, H.  
Hocheffiziente Charakterisierung von Nukleinsäuremolekülen mittels Flüssigkeitschromatographie-Elektrospray-Ionisations-Flugzeit-Massenspektrometrie  
DGMS Jahrestagung 2008, Giessen, Germany, March 2-5, 2008.
28. Oberacher, H., Pitterl, F., Niederstätter, H., Parson, W.  
Increased Forensic Efficiency of Genetic Fingerprints via Mass Spectrometric Genotyping.  
MassSpec-Forum-Vienna-2008, Vienna, Austria, February 19, 2008.
27. Oberacher, H., Schubert, B., Libiseller, K., Scheithauer, R.  
Therapeutic Drug Monitoring of Sunitinib in Serum und Liquor.  
6. Jahrestagung der Österreichischen Gesellschaft für Neurologie, Innsbruck, Austria, February 7, 2008.
26. Oberacher, H., Pitterl, F., Niederstätter, H., Parson, W.  
Characterization of Genomic DNA Sequences by High-Performance (Liquid Chromatography - Mass Spectrometry).  
Invited presentation at the Euroanalysis XIV, Antwerp, Belgium, September 11, 2007.
25. Oberacher, H., Pavlic, M., Libiseller, K., Schubert, B., Schuhmacher, R., Sulyok, M., Berthiller, F., Csaszar, E., Köfeler, H. C.  
Entwicklung und Anwendung einer Plattform-unabhängigen massenspektrometrischen Referenzspektrenbibliothek zur Identifizierung von forensisch-relevanten Substanzen mittels MS/MS.  
XV. Symposium der GTFCH, Mosbach, Germany, April 21, 2007.
24. Oberacher, H., Pitterl, F., Niederstätter, H., Parson, W.  
A New Tool for CSI: Multiplexed Polymerase Chain Reaction-Liquid Chromatography-Mass Spectrometry for Forensic Mitochondrial DNA Analysis.  
ANAKON 2007, Jena, Germany, March 27, 2007.
23. Oberacher, H., Pavlic, M., Libiseller, K., Schubert, B., Schuhmacher, R., Sulyok, M., Berthiller, F., Csaszar, E., Köfeler, H. C.  
Examination of the Interlaboratory and the Interinstrument Transferability of a Tandem Mass Spectral Reference Library - Results of an Austrian Multicenter Study.  
DGMS Jahrestagung 2007, Bremen, Germany, March 14, 2007.

22. Oberacher, H., Pavlic, M., Libiseller, K., Schubert, B., Schuhmacher, R., Sulyok, M., Berthiller, F., Csaszar, E., Köfeler, H. C.  
Examination of the Interlaboratory and the Interinstrument Transferability of a Tandem Mass Spectral Reference Library - Results of an Austrian Multicenter Study.  
MassSpec-Forum-Vienna-2007, Vienna, Austria, February 20, 2007.
21. Oberacher, H.  
Die Erkennung von Veränderungen in der menschlichen Erbinformation mittels hoch effizienter Massenspektrometrie.  
Vortrag anlässlich der Verleihung des Austrian Life Science Awards 2006, Vienna, Austria, November 21, 2006.
20. Oberacher, H.  
High-Performance Mass Spectrometry of Nucleic Acids – Possibilities und Limitations in Genome Research.  
Kolloquium am Institut für Hydrologie, Hydrochemie und Umweltanalytik der TU München, München, Germany, Oktober 30, 2006.
19. Oberacher, H.  
High-Performance Mass Spectrometry of Nucleic Acids.  
Seminar an der Universitätsklinik Regensburg in der Reihe „DNA in der Medizin“, Regensburg, Germany, Oktober 17, 2006.
18. Oberacher, H.  
Effiziente Detektion von DNA-Sequenzvariationen mittels Elektrospray-Ionisations-Flugzeit-Massenspektrometrie.  
Festveranstaltung anlässlich der Verleihung des Adolf-Martens-Preises 2006, Berlin, Germany, April 6, 2006.
17. Oberacher, H., Pitterl, F., Niederstätter, H., Parson, W., Stadlmann, E., Weiss, E., Marksteiner, J.  
LC-ESI-TOF-MS as a Tool for Association Studies in Neuropsychiatric Research.  
DGMS Jahrestagung 2006, Mainz, Germany, March 5-8, 2006.
16. Oberacher, H., Pavlic, M., Libiseller, K.  
The Combined Use of ESI-QqTOF-MS and -MS/MS for the Qualitative Analysis of Drugs.  
XVII. Massenspektrometrischen Diskussionsveranstaltung, Vienna, Austria, February 14-15, 2006.
15. Niederstätter, H., Oberacher, H., Parson, W.  
Highly Efficient Semi-Quantitative Genotyping of Single Nucleotide Polymorphisms in Mitochondrial DNA Mixtures by Liquid Chromatography Electrospray Ionization Time-of-Flight Mass Spectrometry.  
21<sup>st</sup> International Congress of the International Society for Forensic Genetics, Ponta Delgada, Portugal, September 13-17, 2005.
14. Oberacher, H., Niederstätter, H., Casetta, B., Parson, W.  
Highly Accurate Detection of DNA Sequence Variations by Liquid Chromatography Electrospray Ionization Time-of-Flight Mass Spectrometry.  
53<sup>rd</sup> ASMS Conference on Mass Spectrometry, San Antonio, USA, June 5-9, 2005.

13. Oberacher, H., Niederstätter, H., Casetta, B., Parson, W.  
The Next Generation of Mass Spectrometric Genotyping: Detection of DNA Sequence Variations by Electrospray Ionization Time-of-Flight Mass Spectrometry.  
ANAKON 2005, Regensburg, Germany, March 15-18, 2005.
12. Oberacher, H., Niederstätter, H., Casetta, B., Parson, W.  
LC-ESI-Q-TOF-MS of Nucleic Acids.  
XVI. Massenspektrometrischen Diskussionsveranstaltung, Vienna, Austria, February 23-24, 2005.
11. Oberacher, H., Casetta, B., Niederstätter, H., Parson, W.  
Comparison of the Performance Characteristics of Quadrupole Ion Trap and Quadrupole Time-of-Flight Instruments for the Analysis of Nucleic Acids.  
XV. Massenspektrometrischen Diskussionsveranstaltung, Vienna, Austria, February 17-18, 2004.
10. Oberacher, H., Parson, W.  
LC-MS for the Genotyping of Single Nucleotide Polymorphisms.  
Applied Biosystems Mass Spectrometric User Meeting, Innsbruck, Austria, January 19, 2004.
9. Oberacher, H.  
Die Kopplung der Flüssigkeitschromatographie mit der Elektrospray-Ionisations-Massenspektrometrie als Werkzeug für die Genomanalyse.  
Invited presentation in the course of the celebration of the 90<sup>th</sup> birthday of Prof. Dr. Wilhelm Fresenius, Idstein, Germany, July 17, 2003.
8. Oberacher, H., Premstaller, A., Walcher, W., Huber, C. G.  
Monolithic versus Granular Capillary Columns: A Critical Comparison for Biopolymer Separations.  
Invited presentation at the 26<sup>th</sup> International Symposium on Capillary Chromatography and Electrophoresis, Las Vegas, USA, May 19-22, 2003.
7. Oberacher, H.  
The Development of a Robust and Sensitive LC-MS System for the Analysis of Nucleic Acids.  
Invited presentation at the ANAKON 2003, Konstanz, Germany, April 2-5, 2003.
6. Oberacher, H., Toll, H., Walcher, W., Huber, C. G.  
Monolithic Capillary Columns for Liquid Chromatography-Electrospray Ionization Mass Spectrometry in Proteomic Research.  
Invited presentation at the IV Corso di Spettrometria di Massa nello studio integrato del Genoma e del Proteoma, Vitorchiano, Italy, December 9-12, 2002.
5. Oberacher, H., Mayr, B. M., Oefner, P. J., Niederstätter, H., Parson, W., Huber, C. G.  
Hyphenation of Liquid Chromatography to Mass Spectrometry for the Genotyping of DNA Sequence Variations.  
Invited presentation at the IV Corso di Spettrometria di Massa nello studio integrato del Genoma e del Proteoma, Vitorchiano, Italy, December 9-12, 2002.
4. Oberacher, H., Mayr, B. M., Hölzl, G., Oefner, P. J., Niederstätter, H., Parson, W., Huber, C. G.

Fast and reliable Genotyping of Single Nucleotide Polymorphisms using the ICEMS Assay.

22<sup>nd</sup> International Symposium on the Separation of Proteins, Peptides and Polynucleotides (ISPPP), Heidelberg, Germany, November 10 – 13, 2002.

3. Oberacher, H., Walcher, W., Mayr, B., Hölzl, G., Parson, W., Zolla, L., Timperio, A.-M., Huber, C. G.  
Kapillar-HPLC-ESI/MS: Methodenentwicklung und Anwendungsbeispiele zur Detektion von DNA- und Protein-Sequenzvariationen.  
Invited presentation at the Dionex HPLC Symposium, September 19, 2001, Vienna, Austria.
2. Oberacher, H., Premstaller, A., Parson, W., Oefner, P. J., Huber, C. G.  
Liquid Chromatography Mass-Spectrometry as a Tool for Genome Analysis.  
Invited presentation at the Technology Development Forum of the DNA Sequencing and Technology Center, Stanford University, Palo Alto, USA, June 7, 2001.
1. Oberacher, H., Premstaller, A., Parson, W., Huber, C. G.  
HPLC-ESI-MS und -MS/MS von Nukleinsäuren: Möglichkeiten in der Genomanalyse.  
Invited presentation to the 12. Massenspektrometrische Diskussionsveranstaltung, Vienna, Austria, February 13-14, 2001.

## **f) Patents**

3. Oberacher, H., Pitterl, F., Chervet J.-P. (2009)  
Electrochemical Simulation of Oxidation Processes Involving Nucleic Acids Online Monitored with Electrospray Ionization-Mass Spectrometry.  
United States Patent Application 61/236666.
2. Huber, C. G., Oberacher, H. (2003)  
Verfahren zur Sequenzierung von Nukleinsäuren mittels Tandem-Massenspektrometrie.  
Österreichisches Patent Nr. 410983.  
DNA Sequencing by Collision-Induced Dissociation and Mass Spectrometry.  
PCT Int. Appl. WO 2003025219.
1. Huber, C. G., Premstaller, A., Oberacher, H. (2001)  
Method for Preparation of Monolithic Capillary Columns for High-Performance Liquid Chromatography of Single and Double Stranded Nucleic Acids.  
United States Patent Application 09/770410.