

## CURRICULUM VITAE

**Name:** ANDREI VALENTIN MEDVEDOVICI

**Date of birth:** November 29<sup>th</sup>, 1961

**Place of birth:** Bucharest

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**Nationality:** Romanian

**Civil status:** married

### Education:

Date	Earned Degree(s) or Diploma(s) / Institution
1980	Bachelor, Industrial College no. 33, Bucharest.
1984	B.Sc., Polytechnic Institute of Bucharest, Faculty of Chemistry.
1985	M.Sc. in Analytical Chemistry, Polytechnic Institute of Bucharest, Faculty of Chemistry.
1994	Ph.D., University of Bucharest, Faculty of Chemistry (thesis entitled "Metal Complexes in Chromatographic Techniques", coordinator Prof. Dr. G.E. Baiulescu)



### Professional experience:

Period	Location	Institution / Company	Position	Description
1985 - 1998	Romania, Fagaras	Research Centre for Technology	Chemist	Optimisation of technological process, chemistry of explosives
1998 - 1990	Romania, Bucharest	Research Institute Dr. I. Cantacuzino	Researcher	Laboratory for microbiological growth substrates
1990 - 1998			Teaching Ass.	
1998 - 2000			Lecturer	
2000 - 2005	Romania, Bucharest	University of Bucharest, Faculty of Chemistry	Assoc. Prof.	Qualitative Analytical Chemistry, Separation Sciences, Trace Analysis (courses held in French and English)
since 2005			Professor	
since 2006			Ph.D. Coord.	
1997 - 2000	Romania, Bucharest	SINDAN	QA consultant	Implementation of GMP/GLP
1997 - 2002			QA consultant	Quality control, validation of analytical methods, qualification of equipments, process validation, bioequivalence
2002 - 2009	Romania, Bucharest	Labormed Pharma	R&D manager	
since 2009	Romania, Bucharest	Labormed Group	Scientific Director	Bioanalysis

**Study grants:**

Period	Institution	Position	Description
1991 - 1992	University of Ghent (RUG), Belgium	Ph.D. student	Separation sciences, metal complexes and applications in chromatographic techniques
1994 - 1996	University of Ghent (RUG), Belgium	Post Doc.	HPLC, SFC, GC/MS applications in environmental, food, chiral separation field; Hyphenated techniques

**Language skills: (1-Excellent; 5-Basic)**

Language	Reading	Speaking	Writing
French	1	1	2
English	2	3	2

**Membership of professional bodies:** Romanian Analytical Chemical Society

**Awards:** C.D. Nenitescu award of the Romanian Academy, December 2009.

**Editorial board member:** Journal of Liquid Chromatography & Related Technologies (Taylor & Francis Group, U.S.A.) – ISSN 1082-6076; Bioanalysis (Future Science Ltd., U.K.) – ISSN 1757-6199; Journal of Environmental Chemistry and Ecotoxicology (Academic Journals) – ISSN 2141-226X.

**Advisory board member for journals:** Journal of Chromatography A; Journal of Chromatography B; Journal of Pharmaceutical and Biomedical Analysis; Analytical Bioanalytical Chemistry, Chromatographia; Analytical Letters; European Journal of Pharmaceutics and Biopharmaceutics, International Journal of Environmental Analytical Chemistry, Journal of Medicinal Plant Research, Scientia Pharmaceutica, Journal of Separation Science, Revue Roumaine de Chimie; Revista de Chimie, Studia Universitatis Chemia UBB;

**Evaluation board member:** CNCSIS; RENAR; ARACIS

**Other relevant information:** invited scientist

#	Period	Institution	Domain
1	Aug.-Oct. 1997		On-line SPE /HPLC or SFC
2	Aug.-Oct. 1998	Research Institute for Chromatography,	SFC/SFC/UV
3	Aug.-Oct. 1999	Kortrijk, Belgium	SFE/GC/MS
4	Aug.-Oct. 2000		SFC/MS of polysaccharides
5	Aug.-Oct. 2001		SFC/MS in Pharma applications

**Competence profile:** Separation sciences; Sample preparation (LLE, SPE, SPME, SFE); Chromatographic techniques (HPLC, PC-SFC, CGC); Detection in chromatographic techniques (DAD,

FLD, RID, ELSD; MS and MS/MS); Automation in chromatography (on-line SPE/HPLC); Multidimensional/comprehensive chromatography (LC/LC; LC/GC; SFC/LC); Hyphenation in separation techniques (LC/MS-MS, SFC/MS-MS, CGC/MS); Development and validation of separation methods; Qualification of the analytical instrumentation; Application fields: bioanalysis, pharmaceuticals, environmental, food chemistry.

**Participation to projects:**

1. Team manager/Chemistry Section, EPTISA Projectos Internationales S.A., for EU Phare (Europe Aid/115101/D/SV/RO/1 – Strengthening of the institutional and administrative capacity of MoH to adopt and implement the acquis communautaire in the field of water and health related risks”, 2004-2005).
2. Training responsible, subcontract no. 540789, Project Phare RO, 2004/IB/Ag-01, Ministry of Agriculture, 2004.
3. Team member, Leonardo DaVinci Project (“Training Module for Environmental monitoring and pollution control”, RO-02BFPP-141004, coordinator Prof. Dr. A. Danet, Univ. of Bucharest, 2004).
4. Team member, CEEX project 107/09.10.2006 (“Nanostructure azopolymers and their application in microelectronics and biology”, coordinator Prof. Dr. N. Hurduc, Tech. Univ. Gh. Asachi, Iasi).
5. Project manager, contract 927/02.12.2004 between Labormed Pharma and the University of Bucharest.

**Trainer:** (*trainings having duration between 3 and 5 days, as single trainer*)

#	Beneficiary	Training Title	Date
1	Coca-Cola Romania s.r.l.	New trends in GC	Ian. 2004
2	Coca-Cola Romania s.r.l	Gas Chromatography – system qualification and method validation	Oct. 2006
3	Regia Apele Romane	Chromatographic methods in water control	Dec. 2007
4	Inspectorate for Public Veterinary Health Bucharest (ISPVB)	Basic aspects in chromatographic techniques. Applications in food quality control.	May 2005
5	Zentiva (Sanofi Aventis) Romania	Chromatographic Methods	Nov. 2010

**Publications:**

*ISI indexed: Journal Titles (no. of published works + accepted manuscripts)*

Acta Endocrinologica (1); Advances in Chromatography (1); Analytical Letters (7); Analytical Methods (1); Annali di Chimica (2); Arzneimittel-Forschung-Drug Research (1); Bioanalysis (1+1); Biomedical Chromatography (7+1); Chemia Analityczna (4); Chirality (1); Chromatographia (1); Chemistry-A European Journal (1); Comptes Rendus Chimie (1); European Journal of Drug Metabolism and Pharmacokinetics (1); Farmacia (1); Journal of Applied Toxicology (1); Journal of Catalysis (1); Journal of Chemical Information and Computer Sciences (1); Journal of Chemometrics (1); Journal of Chromatography A (5); Journal of Chromatography B (4); Journal of High Resolution Chromatography & Chromatography Communications (4); Journal of Inclusion Phenomena and Inclusion Chemistry (1); Journal of Liquid Chromatography & Related Technologies (9); Journal of Microcolumn Separations (2); Journal of Pharmaceutical and Biomedical Analysis (7); Journal of Separation Science (3); LC-GC Europe (1); Microchemical Journal (4); Nukleonika (1); Revue Roumaine de Chimie (13); Separation Science and Technology (1); Talanta (1); Water Research (1+1)

**Total:** 95 publications (80 in international journals);

**For a complete list, see [www.researcherid.com/rid/C-2543-2011](http://www.researcherid.com/rid/C-2543-2011); Cumulated impact factors of journals:** 161.9 **Cumulated relative influence score of journals:** 77.82.

**Non-ISI:**

Analele Universitatii Bucuresti (2); Archives of the Medical Balkan Union (1); European Pharmaceutical Review (1); International Environmental Technology (2); LC-GC International (1); Proceedings of the International Symposium of Capillary Chromatography (5); Southern Brazilian Journal of Chemistry (1);

**Total:** 13 (10 in international journals).

**Chapters in books/encyclopedias, published courses**

5 published courses (University of Bucharest Publishing House); 4 chapters in books (international publishers); 6 chapters in books (national publisher); 10 chapters in international encyclopedias – Encyclopedia of Chromatography (4); Encyclopedia of Separation Science (1); Encyclopedia of Analytical Science (4); Encyclopedia of Endocrinology and Endocrine Diseases (1).

**h-Index:** 13

**Citations:** 589 (485 without self citations).

## ISI quoted publications

1. Incurred sample reanalysis: different evaluation approaches on data obtained for spironolactone and its active metabolite canrenone during a bioequivalence study  
Voicu V., Gheorghe M.C., Sora I.D., Sarbu C., **Medvedovici A.**  
BIOANALYSIS, accepted for publication, (2011).
2. Linearization of the MS response function: case study for metformin assay in plasma samples for bioequivalence purposes  
Georgita C., Albu F., David V., **Medvedovici A.**, Monciu C.M.  
BIOMEDICAL CHROMATOGRAPHY, accepted for publication, DOI: 10.1002/bmc.1647
3. Degradation of antibiotics in water by non-thermal plasma treatment  
Magureanu M., Piroi D., Mandache N.B., David V., **Medvedovici A.**, Bradu C., Parvulescu V.I.  
WATER RESEARCH, accepted for publication, DOI: 10.1016/j.watres.2011.03.057
4. The influence of mobile-phase flow-rate in RP-LC on thermodynamic parameters studied for some polar compounds  
Galaon T., Mihailciuc C., **Medvedovici A.**, David V.  
JOURNAL OF LIQUID CHROMATOGRAPHY AND RELATED TECHNOLOGIES, 34(7), 521-536 (2011).
5. Discontinuous double mechanism for the retention of some cation-type oximes on a hydrophilic stationary phase in liquid chromatography  
**Medvedovici A.**, Sora I.D., Radulescu M., David V.  
ANAL. METHODS, 3, 241-244 (2011) DOI: 10.1039/c0ay00609b
6. Mass spectrometric behavior of functionalized calix[4]arenes: the screening ability of host-guest complex formation with amino acid methyl esters  
**Medvedovici A.**, Albu F., Hamdi A., Souane R., Kim L., Mutihac L., Vicens J.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY,  
DOI 10.1007/s10847-010-9860-y (2011).
7. Large volume injection of 1-octanol as sample diluent in reversed phase liquid chromatography: Application in bioanalysis for assaying of indapamide in whole blood  
Udrescu S., Sora I.D., Albu F., David V., **Medvedovici A.**  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 54, 1163-1172 (2011).
8. A novel approach on pharmacokinetic/pharmacodynamic correlations of risperidone: understanding its safety and efficacy profiles  
Voicu V.A., **Medvedovici A.**, Miron D., Radulescu F.  
ACTA ENDOCRINOLOGICA, 6(2), 265-285 (2010)
9. Pharmacokinetics and pharmacodynamics of some oximes and associated therapeutic consequences: a critical review  
Voicu V.A., Bajgar J., **Medvedovici A.**, Radulescu F.S., Miron D.S.  
JOURNAL OF APPLIED TOXICOLOGY, acceptat pentru publicare, DOI:10.1002/jat.1561 (2010).
10. Degradation of pharmaceutical compound pentoxifylline in water by non-thermal plasma treatment  
Magureanu M, Piroi D, Mandache NB, David V, **Medvedovici A.**, Parvulescu VI  
WATER RESEARCH, 44, 3445-3453 (2010).
11. Handling drawbacks of mass spectrometric detection coupled to liquid chromatography in bioanalysis  
**Medvedovici A.**, Albu F., David V.  
JOURNAL OF LIQUID CHROMATOGRAPHY AND RELATED TECHNOLOGIES, 33, 1255-1286, (2010).

12. Hydrophobicity/hydrophilicity descriptors obtained from extrapolated chromatographic retention data as modeling tools for biological distribution: application to some oxime-type acetylcholinesterase reactivators  
Voicu V., Sora I., Sarbu C., David V., **Medvedovici A.**  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 52, 508-516 (2010).
13. Analytical issues in HPLC/MS/MS simultaneous assay of Furosemide, Spironolactone and Canrenone in human plasma samples  
Sora I.D., Udrescu S., Albu F., David V., **Medvedovici A.**  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 52, 734-740 (2010).
14. TD/CGC/MS Approach for Characterization of the Volatile Fraction from Amber Specimens: a Possibility of Tracking Geological Origins  
Virgolici M., Ponta C., Manea M., Negut D., Cutrubinis M., Moise I., Suvaila R., Teodor E., Sarbu C., **Medvedovici A.**  
JOURNAL OF CHROMATOGRAPHY A, 1217(12), 1977-1987 (2010).
15. LC/MS and LC/MS/MS based protocol for identification of dyes in historic textiles  
Petroviciu I., Albu F., **Medvedovici A.**  
MICROCHEMICAL JOURNAL, 95, 247-254 (2010).
16. Simultaneous Spectrophotometric Determination of Aspirin, Paracetamol, Caffeine and Chlorphenamine from Pharmaceutical Formulations Using Multivariate Regression Methods  
Mot A.C., Sponar F., **Medvedovici A.**, Sarbu C.  
ANALYTICAL LETTERS, 43, 804-813 (2010).
17. On-line SPE on restricted access adsorbent for HPLC-MS/MS analysis of felodipine in human plasma  
Albu F., Sora I., Tache F., David V., **Medvedovici A.**  
ANALYTICAL LETTERS, 43, 1330-1343 (2010).
18. Unusual retention behavior of some cationic-type aldoximes used as AChE reactivators under ion-pairing liquid chromatographic mechanism  
Voicu V., **Medvedovici A.**, Radulescu M., Iorgulescu E.E., David V.  
ANALYTICAL LETTERS, 43, 1267-1276, (2010).
19. HPLC/DAD assay of cyclohexanamine as related impurity in glipizide through derivatization with o – phtaldialdehyde  
Albu M., **Medvedovici A.**, Tache F.  
ANALYTICAL LETTERS, 43, 1162-1171 (2010).
20. Large volume injection of hexane solutions in RP/LC to enhance on sensitivity of the assay of ginkgolic acids in Gingko biloba standardized extracts  
Udrescu S., Sora I.D., David V., **Medvedovici A.**  
JOURNAL OF LIQUID CHROMATOGRAPHY AND RELATED TECHNOLOGIES, 33, 133-149 (2010).
21. Bioanalysis of pentoxyphylline and related metabolites in human plasma through LC-MS/MS  
Sora D.I., Cristea E., Albu F., David V., **Medvedovici A.**  
BIOMEDICAL CHROMATOGRAPHY, 24(6), 663-674 (2010) DOI 10.1002/bmc1343.
22. TD/CGC/MS and FT-IR characterization of archaeological amber artefacts from roumanian collections (Roman age)  
Virgolici M., Petroviciu I., Teodor E., Litescu S., Manea M., Ponta C., Niculescu G., Sârbu C., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 55(5), 349-355 (2010).
23. HPLC/DAD assay of related impurity ethyl-4-oxopiperidine-1-carboxylate in loratadine through derivatization with 2,4-dinitrophenylhydrazine  
Albu M., David V., Tache F., **Medvedovici A.**  
JOURNAL OF LIQUID CHROMATOGRAPHY AND RELATED TECHNOLOGIES, 32(17) 2569-2583 (2009).

24. Mathematical and phenomenological criteria in selection of pharmacokinetic model for M1 metabolite of pentoxyphylline  
Sandulovici R., Prasacu I., Mircioiu C., Voicu V., **Medvedovici A.**, Anuta V.  
FARMACIA, 57(2) 235-246 (2009).
25. A study on optimization of sample preparation for gas chromatographic methods used in routine irradiated foodstuffs detection  
Virgolici M., **Medvedovici A.**, Manea M.M., Cutrubinis M., Moise I.V., Georgescu R.  
NUKLEONICA, 54(2) 115-121 (2009).
26. Assay of untransformed quinapril and its metabolite quinaprilat for drug bioequivalence evaluation: prospective, concurrent and retrospective method validation  
Sora I., Cristea E., Albu F., Udrescu S., David V., **Medvedovici A.**  
BIOANALYSIS, 1(1) 71-86 (2009).
27. Competitional hydrophobicity driven separations under RP-LC mechanism: application to sulphonylurea congeners  
David V., Galaon T., Caiali E., **Medvedovici A.**  
JOURNAL OF SEPARATION SCIENCE, 32(18) 3099-3106 (2009).
28. Assay of free captopril in human plasma as monobromobimane derivative, using RPLC/(+)ESI/MS/MS: validation aspects and bioequivalence evaluation  
**Medvedovici A.**, Albu F., Sora I.D., Udrescu S., Galaon T., David V.  
BIOMEDICAL CHROMATOGRAPHY, 23(10) 1092-1100 (2009).
29. Validation of an LC-MS/MS assay of terpene trilactones in Ginkgo Biloba extracts and pharmaceutical formulations through standard addition method  
Sora D.I., Stefanescu V., David V., **Medvedovici A.**  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 50(3) 459-468 (2009).
30. Derivatization reactions in liquid chromatography for drug assaying in biological fluids  
**Medvedovici A.**, Farca A., David V.  
ADVANCES IN CHROMATOGRAPHY, Vol. 47, Chapter 8, pp. 283 – 322 (2009) ISBN: 9781420060362
31. Characterization of a new norfloxacin metabolite monitored during a bioequivalence study by means of mass spectrometry and quantum computation  
**Medvedovici A.**, Sora D.I., Ionescu S., Hillebrand M., David V.  
BIOMEDICAL CHROMATOGRAPHY, 22(10) 1100-1107 (2008).
32. Effect of large volume injection of hydrophobic solvents on the retention of less hydrophobic pharmaceutical solutes in RP-LC  
Udrescu S., **Medvedovici A.**, David V.  
JOURNAL OF SEPARATION SCIENCE; 31(16-17) 2939-2945 (2008).
33. Nonlinear calibrations on the assay of diltiazem and two of its metabolites from plasma samples by means of liquid chromatography and ESI/MS2 detection: application to a bioequivalence study  
Georgita C., Albu F., David V., **Medvedovici A.**  
BIOMEDICAL CHROMATOGRAPHY, 22(3) 289-297 (2008).
34. Hydrophobicity parameter (log K<sub>ow</sub>) estimation for some phenolic compounds of pharmaceutical interest from retention studies with mobile phase composition in reversed-phase liquid chromatography  
Galaon T., **Medvedovici A.**, David V.  
SEPARATION SCIENCE AND TECHNOLOGY, 43(1) 147-163 (2008).
35. Considerations on MS/MS detection of Bromazepam after liquid chromatographic separation from plasma samples: application to a bioequivalence study  
Albu F., Georgita C., Tache F., Mutihac L., **Medvedovici A.**, David V.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, 30(18) 2699-2715 (2007).

36. Validated ion pair liquid chromatography/fluorescence detection method for assessing the variability of the loratadine metabolism occurring in bioequivalence studies  
Sora D.I., Udrescu S., David V., **Medvedovici A.**  
BIOMEDICAL CHROMATOGRAPHY, 21(10) 1023-1029 (2007).
37. Metal-triflate ionic liquid systems immobilized onto mesoporous MS41 materials as new and efficient catalysts for N-acylation  
Coman S.M., Florea M., Parvulescu V.I., David V., **Medvedovici A.**, de Vos D., Jacobs P.A., Poncelet G., Grange P.  
JOURNAL OF CATALYSIS, 249(2) 359-369 (2007).
38. Simultaneous assay of metformin and glibenclamide in human plasma based on extraction-less sample preparation procedure and LC/(APCI)MS  
Georgita C., Albu F., David V., **Medvedovici A.**  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, 854(1-2) 211-218 (2007).
39. Achiral-chiral LC/LC-FLD coupling for determination of carvedilol in plasma samples for bioequivalence purposes  
**Medvedovici A.**, Albu F., Georgita C., Sora I.D., Galaon T., Udrescu S., David V.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, 850(1-2) 327-335 (2007).
40. Structure-retention correlation in liquid chromatography for pharmaceutical applications  
David V., **Medvedovici A.**  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES 30(5-8) 761-789 (2007).
41. Fast RPLC-UV method on short sub-two microns particles packed column for the assay of tenoxicam in plasma samples  
Sora I., Galaon T., Udrescu S., Negru J., David V., **Medvedovici A.**  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 43(4) 1437-1443 (2007).
42. Determination of glibenclamide in human plasma by liquid chromatography and atmospheric pressure chemical ionization/MS-MS detection  
Albu F., Georgita C., David V., **Medvedovici A.**  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, 846(1-2) 222-229 (2007).
43. High-throughput liquid-chromatography method with fluorescence detection for reciprocal determination of furosemide or norfloxacin in human plasma  
Galaon T., Udrescu S., Sora I., David V., **Medvedovici A.**  
BIOMEDICAL CHROMATOGRAPHY, 21(1) 40-47 (2007).
44. Retention phenomena induced by large volume injection of solvents non-miscible with the mobile phase in reversed-phase liquid chromatography  
**Medvedovici A.**, David V., David V., Georgita C.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, 30(2) 199-213 (2007).
45. Extrapolations by multiple regressions of the retention parameters for several aromatic hydrocarbons in reversed-phase liquid chromatography  
David V., Iorgulescu E.E., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 51(7-8) 803-809 (2006).
46. Non-miscible solvent large volume injection - HPLC/DAD method for determination of butylated hydroxyanisole in lovastatin and simvastatin pharmaceutical formulations  
David V., Barcutean C., Georgita C., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 51(5) 447-453 (2006).

47. Partition model applied to the retention process of basic analytes in reversed-phase and ion-pairing liquid chromatography  
David V., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 50(9-10) 837-843 (2005).
48. Determination of metformin plasma samples by HPLC-DAD based on plasma derivatization and precipitation with acetic anhydride  
David V., Barcutean C., Sora I., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 50(4) 269-276 (2005).
49. Non-extractive procedure followed by LC/APCI MS/MS analysis of trimetazidine in plasma samples for assessing bioequivalence of immediate/modified release formulations  
**Medvedovici A.**, Albu F., Georgita C., David V.  
BIOMEDICAL CHROMATOGRAPHY, 19(7) 549-555 (2005).
50. Conditional/non-conditional probabilities and information entropies assigned to high-performance liquid chromatography with diode array and fluorescence detection  
David V., **Medvedovici A.**  
JOURNAL OF CHEMOMETRICS, 19(1) 16-22 (2005).
51. Selection of the retention mechanism for separation of amitriptyline and the main related impurities by liquid chromatography  
**Medvedovici A.**, Albu F., David V.  
REVUE ROUMAINE DE CHIMIE, 50(3) 225-234 (2005).
52. A non-extracting procedure for the determination of meloxicam in plasma samples by HPLC-diode array detection  
**Medvedovici A.**, Albu F., Georgita C., Mircioiu C., David V.  
ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, 55(6) 326-331 (2005).
53. Retention behavior of amiodarone and some related compounds in reversed-phase liquid chromatography  
**Medvedovici A.**, David V., Albu F., Farca A.  
REVUE ROUMAINE DE CHIMIE, 49(9) 783-789 (2004).
54. Liquid chromatography-electro spray tandem mass spectrometry method for determination of indapamide in serum for single/multiple dose bioequivalence studies of sustained release formulations  
Albu F., Georgita C., David V., **Medvedovici A.**  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, 816(1-2) 35-40 (2005).
55. Retention behavior of metformin and related impurities in ion-pairing liquid chromatography  
David V., **Medvedovici A.**, Albu F.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, 28(1) 81-95 (2005).
56. Determination of glybenclamide in human plasma by high-performance liquid chromatography and diode-array detector  
Ionescu M., Galaon T., David V., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 49(3-4) 351-359 (2004).
57. Heterogeneous synthesis of amido-type surfactants for bitumenes  
Musteata M., Musteata V., David V., **Medvedovici A.**, Gagea B.C., Parvulescu V.I.  
COMPTES RENDUS CHIMIE, 7(6-7) 623-628 (2004).
58. Structure-retention correlation of some oxycam drugs in reversed-phase liquid chromatography  
David V., Albu F., **Medvedovici A.**  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, 27(6) 965-984 (2004).

59. Validated HPLC determination of 2-[(dimethylamino)methyl]cyclohexanone, an impurity in Tramadol, using a precolumn derivatisation reaction with 2,4-dinitrophenylhydrazine  
**Medvedovici A.**, Abu F., Farca A., David V.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS 34(1) 67-74 (2004).
60. Application of the ion-pair mechanism for the determination of acyclovir in plasma samples by liquid chromatography with fluorescence detection  
Farca A., David V., **Medvedovici A.**, Ionescu M.  
REVUE ROUMAINE DE CHIMIE, 48(10) 781-787 (2003).
61. Comprehensive pSFCxpSFC-MS for the characterization of triglycerides in vegetable oils  
Sandra P., **Medvedovici A.**, David F.  
LC GC EUROPE, 16(12A) 32-34 (2003).
62. Solvent and salting effects on sample preparation for the determination of fenofibric acid in human plasma by HPLC-DAD  
Lovin I., Abu F., Tache F., **Medvedovici A.**  
MICROCHEMICAL JOURNAL, 75(3) 179-187 (2003).
63. Validation of the assay of metoprolol in human plasma using liquid-liquid extraction and high performance liquid chromatography with fluorescence detection  
Farca A., Tache F., **Medvedovici A.**, David V.  
CHEMIA ANALITYCZNA 48(4) 677-688 (2003).
64. A non-extraction method for the determination of prothionamide in human plasma samples by high performance liquid chromatography-diode array detector  
Ionescu M., David V., **Medvedovici A.**  
REVUE ROUMAINE DE CHIMIE, 47(8-9) 855-860 (2002).
65. Characterization of triglycerides in vegetable oils by silver-ion packed-column supercritical fluid chromatography coupled to mass spectroscopy with atmospheric pressure chemical ionization and coordination ion spray  
Sandra P., **Medvedovici A.**, Zhao Y., David F.  
JOURNAL OF CHROMATOGRAPHY A, 974(1-2) 231-241 (2002).
66. Validation of a LC-fluorescence method for determination of free captopril in human plasma, using a pre-column derivatization reaction with monobromobimane  
Tache F., Farca A., **Medvedovici A.**, David V.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, 28(3-4) 549-557 (2002).
67. Optimization of a liquid-liquid extraction method for HPLC-DAD determination of penicillin-V in human plasma  
**Medvedovici A.**, Ionescu M., Mircioiu C., David V.  
MICROCHEMICAL JOURNAL 72(1) 85-92 (2002).
68. Analysis of jojoba oil by LC-coordination ion spray-MS (LC-CIS-MS)  
**Medvedovici A.**, Lazou K., d'Oosterlinck A., Zhao Y., Sandra P.  
JOURNAL OF SEPARATION SCIENCE, 25(3) 173-178 (2002).
69. A simple and fast method for the determination of ranitidine in human plasma by HPLC-DAD  
David V., Ionescu M., Tache F., **Medvedovici A.**  
CHEMIA ANALITYCZNA, 46(6) 865-871 (2001).
70. SPE-HPLC-DAD determination of Triton X-100 in perfusable solutions  
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