

RESEARCH PUBLICATIONS (75)

*graduate student or PDF, †CHEM 402/502/MITACS/ENSC 504/505 or summer student,
+corresponding author

Independent research (R-review, i-invited)

- 75R A. Hill[†] and **J. Gailer**,⁺ Linking molecular targets of Cd in the bloodstream to organ-based health effects. *J. Inorg. Biochem.* In press.
- 74Ri S. Sarpong-Kumankomah* and **J. Gailer**,⁺ Application of a novel Metallomics tool to probe the fate of metal-based anticancer drugs in blood plasma: potential, challenges and prospects. *Curr. Topics Med. Chem.*, 21, **2021**, pp-pp.
- 73 K. Miller,* S. Sarpong-Kumankomah,* A. Egorov and **J. Gailer**,⁺ Sample preparation of blood plasma enables baseline separation of iron metalloproteins by SEC-GFAAS. *J. Chromatogr. B*, 1147, **2020**, 122147.
- 72 S. Sarpong-Kumankomah,* M. Contel and **J. Gailer**,⁺ SEC hyphenated to a multielement-specific detector unravels the degradation pathway of a bimetallic anticancer complex in human plasma. *J. Chromatogr. B*, 1145, **2020**, 122093.
- 71 S. Sarpong-Kumankomah* and **J. Gailer**,⁺ Identification of a haptoglobin-hemoglobin complex in human blood plasma. *J. Inorg. Biochem.*, 201, **2019**, 110802.
- 70Ri L. Massai, A. Pratesi,⁺ **J. Gailer**, T. Marzo and L. Messori,⁺ The cisplatin/serum albumin system: a reappraisal. *Inorg. Chim. Acta*, 495, **2019**, 118983.
- 69 T.K. Sander,[†] A. Gautam,[†] S. Sarpong-Kumankomah* and **J. Gailer**,⁺ Detection of equimolar EDTA and DTPA in spiked wastewater effluents. *Intl. J. Environ. Anal. Chem.*, 99, **2019**, 541-556.
- 68R S. Sarpong-Kumankomah,* M.A. Gibson* and **J. Gailer**,⁺ Organ damage by toxic metals is critically determined by the bloodstream. *Coord. Chem. Rev.*, 374, **2018**, 376-386.
- 67 **J. Gailer**, Improving the safety of metal-based drugs by tuning their metabolism with chemoprotective agents. *J. Inorg. Biochem.*, 179, **2018**, 154-157.
- 66 M.A. Gibson,* S. Sarpong-Kumankomah,* S. Nehzati, G.N. George and **J. Gailer**⁺, Remarkable differences in the biochemical fate of Cd²⁺, Hg²⁺, CH₃Hg⁺ and thimerosal in red blood cell lysate. **Front Cover**, *Metallomics*, 9, **2017**, 1060-1072.
- 65 O. Ponomarenko, P.F. La Porte, S.P. Singh, G. Langan, D.E.B. Fleming, J.E. Spallholz, M. Alauddin, H. Ahsan, S. Ahmed, **J. Gailer**, G.N. George⁺ and I.J. Pickering⁺, Selenium-mediated arsenic excretion in mammals: a synchrotron-based study of whole-body distribution and tissue-specific chemistry. ([Open Access](#)), *Metallomics*, 9, **2017**, 1585-1595.
- 64 A.E. North,[†] S. Sarpong-Kumankomah,* A.R. Bellavie,[†] W.W. White and **J. Gailer**⁺, Environmentally relevant concentrations of aminopolycarboxylate chelating agents mobilize Cd from humic acid. *J. Environ. Sci.*, 57, **2017**, 249-257.
- 63R M. Sooriyaarachchi,* I.J. Pickering, G.N. George and **J. Gailer**⁺, Tuning the metabolism of the anticancer drug cisplatin with chemoprotective agents to improve its safety/efficacy. Mini-Review ([Open Access](#)), *Metallomics*, 8, **2016**, 1170-1176

- 62 M. Sooriyaarachchi,* **J. Gailer**, N.V. Dolgova, I.J. Pickering and G.N. George⁺ Chemical basis for the detoxification of cisplatin-derived hydrolysis products by sodium thiosulfate. *J. Inorg. Biochem.*, 162, **2016**, 96-101
- 61 B.W.J. Harper, T.T. Morris,* **J. Gailer** and J.R. Aldrich-Wright,⁺ Probing the interaction of bisintercalating (2,2':6',2''-terpyridine)platinum(II) complexes with glutathione and rabbit plasma. *J. Inorg. Biochem.*, 163, **2016**, 95-102
- 60 P. Sagmeister,[†] M.A. Gibson,* K.H. McDade[†] and **J. Gailer**,⁺ Physiologically relevant plasma D,L-homocysteine concentrations mobilize Cd from human serum albumin. *J. Chromatogr. B*, 1027, **2016**, 181-186
- 59 G.N. George,⁺ **J. Gailer**, O. Ponomarenko, P.F. La Porte, K. Strait, M. Alauddin, H. Ahsan, S. Ahmed and I.J. Pickering. Observation of the seleno *bis*-(S-glutathionyl) arsinium anion in rat bile. ([Open Access](#)). *J. Inorg. Biochem.*, 158, **2016**, 24-29
- 58 M. Sooriyaarachchi,* M.A. Gibson,* Bruno dos Santos Lima[†] and **J. Gailer**⁺ Modulation of the metabolism of cis-platin in blood plasma by glutathione. *Can J. Chem.*, 94, **2016**, 360-366
- 57Ri M. Sooriyaarachchi,* T.T. Morris* and **J. Gailer**⁺ Advanced LC-analysis of human plasma for metallodrug metabolites. *Drug Discovery Today: Technologies*, 16, **2015**, e24-e30
- 56 T.T. Morris,* Y. Ruan, V.L. Lewis, A. Narendran and **J. Gailer**⁺ Fortification of blood plasma from cancer patients with human serum albumin decreases the concentration of cisplatin-derived toxic hydrolysis products *in vitro*. *Metallomics*, 6, **2014**, 2034-2041
- 55 M.A. García-Sevillano, T. García-Barrera, F. Navarro, **J. Gailer**⁺ and J.L. Gómez-Ariza⁺, Use of elemental and molecular mass spectrometry to assess the toxicological effects of inorganic mercury in the mouse *Mus musculus*. *Anal. Bioanal. Chem.*, 406, **2014**, 5853-5865
- 54 T.T. Morris,* J.L.A. Keir,[†] S.J. Boshart,[†] V.P. Lobanov, A.M.A. Ruhland,[†] N. Bahl[†] and **J. Gailer**⁺ Mobilization of Cd from human serum albumin by small molecular weight thiols. *J. Chromatogr. B.*, 958, **2014**, 16-21
- 53 M. Sooriyaarachchi,* J.L. Wedding, H.H. Harris and **J. Gailer**⁺ Simultaneous observation of the metabolism of cisplatin and NAMI-A in human plasma *in vitro* by SEC-ICP-AES. *J. Biol. Inorg. Chem.*, 19, **2014**, 1049-1053
- 52 E.Z. Jahromi,* **J. Gailer**,⁺ I.J. Pickering and G.N. George⁺ Structural characterization of Cd²⁺ complexes in solution with DMSA and DMPS. *J. Inorg. Biochem.*, 136, **2014**, 99-106
- 51 M. Sooriyaarachchi,* W.M. White, A. Narendran, and **J. Gailer**⁺ Chemoprotection by D-methionine against *cis*-platin-induced side-effects: Insight from *in vitro* studies using human plasma. *Metallomics*, 6, **2014**, 532-541

- 50 E.Z. Jahromi* and **J. Gailer**⁺ Improved selectivity of ZnNa₃DTPA vs. Na₅DTPA to abstract Cd²⁺ from plasma proteins *in vitro*. Communication, *Metallomics*, 5, **2013**, 615-618
- 49 M.T. Le, M. Hassanin, M. Mahadeo, **J. Gailer** and E.J. Prenner⁺ Hg- and Cd-induced modulation of lipid packing and monolayer fluidity in biomimetic erythrocyte model systems. *Chem. Phys. Lipids*, 170-171, **2013**, 46-54
- 48R **J. Gailer**⁺ Metal species in biology: bottom-up and top-down LC approaches in applied toxicological research. *ISRN Chromatography*, Article ID 801840, **2013**, 21 pages
- 47 M. Sooriyaarachchi,* A. Narendran and **J. Gailer**⁺ N-acetyl-L-cysteine modulates the metabolism of *cis*-platin in human plasma *in vitro*. **Front Cover**, *Metallomics*, 5, **2013**, 197-207
- 46 E.Z. Jahromi* and **J. Gailer**⁺ *In vitro* assessment of chelating agents with regard to their abstraction of Cd²⁺ bound to plasma proteins. *Metallomics*, 4, **2012**, 995-1003
- 45 M. Sooriyaarachchi,* A. Narendran and **J. Gailer**⁺ The effect of sodium thiosulfate on the metabolism of *cis*-platin in human plasma *in vitro*. *Metallomics*, 4, **2012**, 960-967
- 44 **J. Gailer**⁺ Probing the bioinorganic chemistry of toxic metals in the mammalian bloodstream to advance human health. *J. Inorg. Biochem.*, 108, **2012**, 128-132
- 43 J.D. Meers,[†] E.Z. Jahromi* and **J. Gailer**⁺ Improving the RP-HPLC separation of Hg²⁺ and CH₃Hg⁺ using a mixture of thiol-based mobile phase additives. *J. Environ. Sci. Health, Part A*, 47, **2012**, 149-154
- 42R J.L. Gómez-Ariza, E.Z. Jahromi,* M. González-Fernández, T. García-Barrera and **J. Gailer**⁺ Liquid chromatography-inductively coupled plasma-based metallomic approaches to probe health-relevant interactions between xenobiotics and mammalian organisms. Tutorial Review, *Metallomics* 3, **2011**, 566-577
- 41 M. Sooriyaarachchi,* A. Narendran and **J. Gailer**⁺ Comparative hydrolysis and plasma protein binding of *cis*-platin and carboplatin in human plasma *in vitro*. **Front Cover**, *Metallomics* 3, **2011**, 49-55
- 40 S. Tuncel, F. Dumoulin, **J. Gailer**, M. Sooriyaarachchi,* D. Atilla, M. Durmuş, D. Bouchu, H. Savoie, R.W. Boyle and V. Ahsen⁺ A set of highly water-soluble tetraethyleneglycol-substituted Zn(II) phthalocyanines: synthesis, photochemical and photophysical properties, interaction with plasma proteins and *in vitro* phototoxicity. **Front Cover**, *Dalton Trans.* 40, **2011**, 4067-4079
- 39 K.L. Pei,* M. Sooriyaarachchi,* D.A. Sherell, G.N. George and **J. Gailer**⁺ Probing the coordination behavior of Hg²⁺, CH₃Hg⁺ and Cd²⁺ toward mixtures of two biological thiols by HPLC-ICP-AES. *J. Inorg. Biochem.* 105, **2011**, 257-263
- 38R **J. Gailer**⁺ Visualizing interactions between medicinal drugs and blood plasma constituents. Laboratory Focus, Feature Article, November **2010** Issue, 12-14

- 37 M. Sooriyaarachchi* and **J. Gailer**⁺ Removal of Fe³⁺ and Zn²⁺ from plasma metalloproteins by iron chelating therapeutics depicted with SEC-ICP-AES. *Dalton Trans.* 39, **2010**, 7466-7473
- 36 E.Z. Jahromi*, W. White, Q.A. Wu, R. Yamdagni and **J. Gailer**⁺ Remarkable effect of mobile phase buffer on the SEC-ICP-AES derived Cu, Fe and Zn-metalloproteome pattern of rabbit blood plasma. *Metallomics*, 2, **2010**, 460-468
- 35 E.Z. Jahromi* and **J. Gailer**⁺ Probing bioinorganic chemistry processes in the bloodstream to gain new insights into the origin of human diseases (Perspective, Themed Issue: New Talent). *Dalton Trans.* 39, **2010**, 329-336
- 34 K.L. Pei* and **J. Gailer**⁺ Probing the binding of arsenobetaine to plasma constituents *in vitro*: an SEC-ICP-AES study. *Metallomics* 1, **2009**, 403-408
- 33 **J. Gailer**⁺ Chronic toxicity of As^{III} in mammals: the role of (GS)₂AsSe⁻. *Biochimie* 91, **2009**, 1268-1272
- 32Ri S.A. Manley* and **J. Gailer**⁺ Analysis of the plasma metalloproteome by SEC-ICP-AES: bridging proteomics and metabolomics. *Expert Rev. Proteomics* 6, **2009**, 251-265
- 31 M.T. Le,* **J. Gailer** and E.J. Prenner⁺ Hg²⁺ and Cd²⁺ interact differently with biomimetic model lipid membrane systems. *Biometals* 22, **2009**, 261-274
- 30 S.A. Manley,* S. Byrns,[†] A. Lyon, P. Brown and **J. Gailer**⁺ Simultaneous Cu, Fe and Zn-specific detection of plasma metalloproteins by size exclusion chromatography-inductively coupled plasma atomic emission spectroscopy. *J. Biol. Inorg. Chem.* 14, **2009**, 61-74
- 29 A.J. Percy* and **J. Gailer**⁺ Methylated trivalent arsenic-glutathione complexes are more stable than their arsenite analogue. ([Open Access](#)), *Bioinorg. Chem. Appl.*, Article ID 539082, 8 pages, **2008** (open access journal, start: 2005)
- 28 M. Korbas, A.J. Percy,* **J. Gailer** and G.N. George⁺ A possible molecular link between the toxicological effects of arsenic, selenium and methyl mercury: methyl mercury (II) seleno bis(S-glutathionyl) arsenic (III). *J. Biol. Inorg. Chem.* 13, **2008**, 461-470
- 27R R.S. Glass,⁺ M.J. Berry, E. Block, H.T. Boakye, B.A. Carlson, **J. Gailer**, G.N. George, V.N. Gladyshev, D.L. Hatfield, N.E. Jacobsen, S. Johnson, C. Kahakachchi, R. Kaminski, S.A. Manley* *et al.*, Insights into the chemical biology of selenium. *Phosphorus, Sulfur, and Silicon and the Related Elements* 183, **2008**, 924-930
- 26 R.C. Prince,⁺ **J. Gailer**, D.E. Gunson, R.J. Turner, G.N. George and I.J. Pickering, Strong poison revisited. *J. Inorg. Biochem.* 101, **2007**, 1891-1893
- 25 A.J. Percy,* M. Korbas, G.N. George and **J. Gailer**⁺ Reversed-phase high-performance liquid chromatographic separation of inorganic mercury and methylmercury driven by their different coordination chemistry towards thiols. *J. Chromatogr. A* 1156, **2007**, 331-339
- 24Ri **J. Gailer**⁺ Arsenic-selenium and mercury-selenium bonds in biology. *Coord. Chem. Rev.* 251, **2007**, 234-254

- 23 S.A. Manley,* G.N. George, I.J. Pickering, R.S. Glass, E.J. Prenner, R. Yamdagni, Q. Wu and **J. Gailer**⁺ The seleno-bis (*S*-glutathionyl) arsinium ion is assembled in erythrocyte lysate. *Chem. Res. Toxicol.* 19, **2006**, 601-607

Post-doctoral research (PDF) R-review

- 22 **J. Gailer**,⁺ L. Ruprecht, P. Reitmeir, B. Benker and P. Schramel, Mobilization of exogenous and endogenous selenium to bile after the intravenous administration of environmentally relevant doses of arsenite to rabbits. *Appl. Organometal. Chem.* 18, **2004**, 670-675
- 21 G.N. George,⁺ R.C. Prince, **J. Gailer**, G.A. Buttigieg, M.B. Denton, H.H. Harris and I.J. Pickering, Mercury binding to the chelation therapy agents DMSA and DMPS and the rational design of custom chelators for mercury. *Chem. Res. Toxicol.* 17, **2004**, 999-1006
- 20 **J. Gailer**,⁺ G.A. Buttigieg and M.B. Denton, Simultaneous arsenic- and selenium specific detection of the dimethyldiselenoarsinate anion by high performance liquid chromatography-inductively coupled plasma atomic emission spectrometry. (Open Access). *Appl. Organometal. Chem.* 17, **2003**, 570-574
- 19 G.N. George,⁺ I.J. Pickering, H.H. Harris, **J. Gailer**, D. Klein, J. Lichtmanegger and K.-H. Summer, Tetrathiomolybdate causes formation of hepatic copper-molybdenum clusters in an animal model of Wilson's disease. *J. Am. Chem. Soc.* 125, **2003**, 1704-1705
- 18R **J. Gailer**⁺ Reactive selenium metabolites as targets of toxic metals/metalloids: a molecular toxicological perspective. *Appl. Organometal. Chem.* 16, **2002**, 701-707
- 17 **J. Gailer**,⁺ G.N. George, I.J. Pickering, R.C. Prince, H.S. Younis and J.J. Winzerling. Biliary excretion of [(GS)₂AsSe]⁻ after intravenous injection of rabbits with arsenite and selenate. *Chem. Res. Toxicol.* 15, **2002**, 1466-1471
- 16 **J. Gailer**,⁺ G.N. George, H.H. Harris, I.J. Pickering, R.C. Prince, G.A. Buttigieg, R.S. Glass and M.B. Denton. Synthesis, purification and structural characterization of the dimethyldiselenoarsinate anion. *Inorg. Chem.* 41, **2002**, 5426-5432
- 15 **J. Gailer**,⁺ G.N. George,⁺ I.J. Pickering, G.A. Buttigieg, M.B. Denton and R.S. Glass. Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (*S*-glutathionyl) arsinium ion from selenide, arsenite and glutathione. *J. Organometal. Chem.* 650, **2002**, 108-113
- 14 **J. Gailer**,⁺ S. Madden, G.A. Buttigieg, M.B. Denton and H.S. Younis. Identification of [(GS)₂AsSe]⁻ in rabbit bile by size-exclusion chromatography and simultaneous multielement-specific detection by inductively coupled plasma atomic emission spectroscopy. *Appl. Organometal. Chem.* 16, **2002**, 72-75
- 13 D. Zhang, C. Ferris, **J. Gailer**, P. Kohlhepp and J.J. Winzerling⁺ *Manduca sexta* IRP1: molecular characterization and in vivo response to iron. *Insect. Biochem. Mol. Biol.* 32, **2001**, 85-96
- 12 **J. Gailer**,⁺ G.N. George, I.J. Pickering, R.C. Prince, P. Kohlhepp, D. Zhang, F.A. Walker and J.J. Winzerling⁺ Human cytosolic iron regulatory protein 1 contains a linear iron-sulfur cluster. *J. Am. Chem. Soc.* 123, **2001**, 10121-10122

- 11 **J. Gailer**, G.N. George,⁺ I.J. Pickering, S. Madden, R.C. Prince, E.Y. Yu, M.B. Denton, H.S. Younis and H.V. Aposhian⁺ Structural basis of the antagonism between inorganic mercury and selenium in mammals. **Front Cover**. *Chem. Res. Toxicol.* 13, **2000**, 1135-1142
- 10 **J. Gailer**,⁺ G.N. George,⁺ I.J. Pickering, R.C. Prince, S.C. Ringwald, J.E. Pemberton, R.S. Glass, H.S. Younis, W.D. DeYoung and H.V. Aposhian, A metabolic link between arsenite and selenite: the seleno-bis (*S*-glutathionyl) arsinium ion. *J. Am. Chem. Soc.* 122, **2000**, 4637-4639
- 9 **J. Gailer**,⁺ S. Madden, M.F. Burke, M.B. Denton and H.V. Aposhian, On-line arsenic, selenium and sulfur-specific detection of the seleno-bis (*S*-glutathionyl) arsinium ion by ICP-AES after micellar size-exclusion chromatography. *Appl. Organometal. Chemistry* 14, **2000**, 355-363
- 8 **J. Gailer**,⁺ S. Madden, W.R. Cullen and M.B. Denton, The separation of dimethylarsinic acid, methylarsonous acid, methylarsonic acid, arsenate and dimethylarsinous acid on the Hamilton PRP-X100 anion-exchange column. *Appl. Organometal. Chemistry*, 13, **1999**, 837-843
- 7 **J. Gailer**⁺ and W. Lindner, On-column formation of arsenic-glutathione species detected by size-exclusion chromatography in conjunction with arsenic-specific detectors. *J. Chromatogr. B*, 716, **1998**, 83-93

Doctoral Research (PhD)

- 6 K.A. Francesconi,⁺ **J. Gailer**, J.S. Edmonds, W. Gössler and K.J. Irgolic, Uptake of arsenic-betaines by the mussel *Mytilus edulis*. *Comp. Biochem. and Physiol. C*, 122, **1999**, 131-137
- 5 **J. Gailer** and K.J. Irgolic,⁺ The retention behavior of arsenobetaine, arsenocholine, trimethylarsine oxide and tetramethylarsonium iodide on the Hamilton PRP-1 column with benzenesulfonates as ion-pairing reagents. *J. Chromatogr. A*, 730, **1996**, 219-229
- 4 **J. Gailer**,⁺ K.A. Francesconi, J.S. Edmonds and K.J. Irgolic⁺ Metabolism of arsenic compounds by the blue mussel *Mytilus edulis* after accumulation from seawater spiked with arsenic compounds. *Appl. Organometal. Chem.* 9, **1995**, 341-355
- 3 A.R. Byrne,⁺ Z. Sleikovec, T. Stijve, L. Fay, W. Gössler, **J. Gailer** and K.J. Irgolic, Arsenobetaine and other arsenic species in mushrooms. *Appl. Organometal. Chem.* 9, **1995**, 305-313

Masters Research (MSc)

- 2 **J. Gailer** and K.J. Irgolic⁺ The ion-chromatographic behavior of arsenite, arsenate, methylarsonic acid and dimethylarsinic acid on the Hamilton PRP-X100 anion-exchange column. *Appl. Organometal. Chem.* 8, **1994**, 129-140
- 1 M.A. Kessler, **J.G. Gailer** and O.S. Wolfbeis⁺ Optical sensor for on-line determination of solvent mixtures based on a fluorescent solvent polarity probe. *Sens. Actuat. B*, 3, **1991**, 267-272

BOOK CHAPTERS/CONFERENCE PROCEEDINGS/APPLICATION NOTES (9)

- 9 S. Sarpong-Kumankomah, * K. Miller* and **J. Gailer**, Biological chemistry of toxic metals and metalloids, such as arsenic, cadmium and mercury, Encyclopedia of Analytical Chemistry, Online, 2006-2020, John Wiley & Sons, Ltd., a9681, p.1-18.
- 8 M. Alauddin, R. Cekovici, S. Alauddin, L. Bolevici, S. Saha, J.E. Spallholz, P.F. LaPorte, S. Ahmed, H. Ahsan, **J. Gailer**, O. Ponomarenko, I.J. Pickering, S.P. Singh and G.N. George, Pharmacodynamic study of the selenium-mediated arsenic excretion in arsenicosis patients in Bangladesh, pp. 391-394, Environmental arsenic in a changing world (AS2018), July 1-6, 2018, Chinese Academy of Sciences, Institute for the Urban Environment, Beijing, China
- 7 P.C.G. Campbell and **J. Gailer**, Effects of Non-essential Metal Releases on the Environment and Human Health, Chapter 10, In: Metal Sustainability: Global Challenges, Consequences, and Prospects, pp. 221-252, 2016, First Edition. Editor: Reed McNeil Izatt. John Wiley & Sons, Ltd.
- 6 L. Charlet, F. Bardelli, C. Parsons, J. He, S, Chakraborty and **J. Gailer**, Arsenic binding onto phyllosilicates and glutathione: Soil immobilisation and human excretion mechanisms, pp. 59-62, 4th International Congress on Arsenic in the Environment, Understanding the Geological and Medical Interface, July 22-27 2012, Cairns, Australia
- 5 M. Alauddin, T. Wheaton, M. Valencia, E. Stekolchik, J.E. Spallholz, P.F. LaPorte, S. Ahmed, B. Chakaraborty, M. Bhattacharjee, A.B.M. Zakira, S. Sultana, G.N. George, I.J. Pickering and **J. Gailer**, Clinical trial involving selenium supplementation to counter arsenic toxicity among rural population in Bangladesh, pp. 143-147, 4th International Congress on Arsenic in the Environment - Understanding the Geological and Medical Interface, July 22-27 2012, Cairns, Australia
- 4 A.J. Percy,* **J. Gailer** and P. Brown, Application of the Prodigy ICP as a multielement-specific detector in chromatography. Application Note #1048. Teledyne Leeman Labs, NH, United States, 2006
- 3 H.V. Aposhian, R.A. Zakharyan, E.K. Wildfang, S.M. Healy, **J. Gailer**, T.R. Radabaugh, G.M. Bogdan, L.A. Powell and M.M. Aposhian, How is inorganic arsenic detoxified? pp. 289-297, In: *Arsenic Exposure and Health Effects*, Proceedings of the Third International Conference on Arsenic Exposure and Health Effects, San Diego, USA; Elsevier, New York, 1999
- 2 **J. Gailer**, The reaction of arsenite with glutathione in physiological buffer, 4th International Symposium on Metal Ions in Biology and Medicine, pp. 97-99, May 19-22, 1996, Barcelona, Spain
- 1 D.R. Mayer, W. Beyer, **J. Gailer** and W. Kosmus, Arsenic – an endless enigma? In: Elements and Liver, Proceedings of the International Symposium on Trace Elements and Liver Diseases, pp 9-25, Madinat al-Hikmah, Pakistan, 1996