

1. CURRICULUM VITAE

Prof. Dr. Gabriele Sabbioni

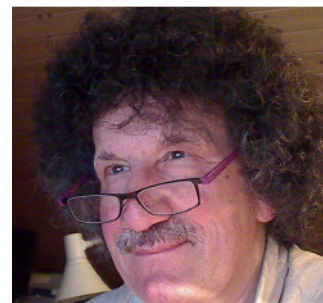
ausserplanmässiger Professor (University of Munich)

Origins: Lugano (Switzerland)

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Consulting address: Institute of Environmental and Occupational Toxicology, CH-6780 Airolo.

Teaching Address: Walther-Straub-Institute of Pharmacology and Toxicology, Ludwig-Maximilians-University, D-80336 Munich. Email: gabriele.sabbioni@lrz.uni-muenchen.de



Education

University of Bern, Bern, Switzerland;	Masters,	Chemistry.
University of Bern, Bern, Switzerland;	High School Teacher Diploma,	Chemistry.
University of Bern, Bern, Switzerland;	Dr.phil.nat.,	Chemistry.
University of Toronto, Toronto, Canada;	Postdoctoral,	Chemistry.
M.I.T., Cambridge, MA, USA;	Postdoctoral,	Toxicology.
University of Würzburg, Würzburg, Germany;	Dr.med.habil.,	Toxicology.

Professional Experience

University of Bern, Department of Chemistry, Bern, Switzerland. Graduate student fellowship.

University of Toronto, Department of Chemistry, Toronto. Postdoctoral fellow.

Massachusetts Institute of Technology, Applied Biological Sciences, Cambridge, MA.

Postdoctoral fellow.

University of Würzburg, Department of Toxicology and Pharmacology, Würzburg, Germany.

Head of a research group.

University of Munich, Walther-Straub Institute for Pharmacology and Toxicology, Munich, Germany. Professor non-tenure track.

2003-2006 Institute of Environmental and Occupational Toxicology, Airolo, Switzerland.

Since 2003- University of Munich, Walther-Straub Institute for Pharmacology and Toxicology, Munich, Germany. Adjunct Professor (ausserplanmässiger Professor).

2007-2014 Tulane University, New Orleans, LA. Associate Professor.

Since 2015 Consultant and research in Switzerland at the Institute of Environmental and Occupational Toxicology, Airolo; and Alpine Institute of Chemistry and Toxicology, Olivone.

Present teaching activities

Presently, I am participating in the courses “Experimental pharmacology and toxicology for medical students, biologist und chemist” and “Practical exercises in pharmacology and toxicology” (= 4 weeks practicum) from the University of Munich (Germany).

Research curriculum

After studying chemistry in Bern (Switzerland), I performed my first postdoctoral work in the field of bioorganic chemistry at the University of Toronto. I started to work on topics of toxicology at the Division of Toxicology of the Massachusetts Institute of Technology (MIT). In cooperation with other groups, we could demonstrate that blood protein adducts of aflatoxin are good markers of exposure and good markers of the target dose (liver DNA). At the University of Würzburg I refined the method for the analysis of aflatoxin albumin adducts in humans. We were able to find such adducts in humans living in regions with high liver cancer incidences: Africa and China.

In Würzburg and Munich I pursued my biomonitoring studies with other chemicals such as: nitroaromatics, aromatic amines, isocyanates, urea and carbamate pesticides, cyproterone acetate and leflunomide. After developing the methods in rat experiments, we quantified blood protein-adducts and urinary metabolites in workers. In some studies we were able to compare the air levels, the urinary

metabolites and the protein-adducts with the individual genotypes (N-acetyltransferase, glutathione transferases), with the early biological effects (cytogenetic) and with biological effects (liver disease, exposed to the following compounds. At Tulane University we developed methods to determine isocyanate specific biomarkers in workers exposed to 4,4'-methylenediphenyl diisocyanate and toluene diisocyanates. We applied the methods to samples obtained from different laboratories. Recently we created and established a method to quantify serum albumin adducts of isothiocyanates released from cruciferous vegetables. We studied following populations:

1. Workers accidentally exposed to toluene diisocyanates, Netherlands.
2. Population study to monitor the consumption of cruciferous vegetables, Italy.
3. Workers exposed to methylene-, toluene- and hexamethylene-diisocyanates, Germany, and Cincinnati, USA.
4. Workers from a isocyanate factory exposed to 4,4'-methylenediphenyl diisocyanate in Germany.
5. Workers from a factory manufacturing products with polyurethane in Germany.
6. Workers from construction sites exposed to polyurethanes in Germany.
7. Workers exposed to 4,4'-methylenedianiline in Germany.
8. Workers from a rubber factory exposed to 2-methylaniline and aniline, USA.
9. Workers from two Chinese ammunition factories exposed to 2,4,6-trinitrotoluene.
10. Workers exposed to ammunition waste in soil, Germany.
11. Workers exposed to dinitrotoluenes in China.
12. Workers exposed to 4-chloronitrobenzene in China.
13. Workers exposed to benzidine and azodyes in India.
14. Field workers exposed to pesticides, Sanremo, Italy.
15. People exposed to aflatoxins, China, Kenya, Gambia.

In order to analyze DNA-adducts of carcinogens in vivo, we have synthesized several deoxyguanosine adducts of arylamines. We developed methods such as HPLC/MS/MS, HPLC-ECD, and ³²P-postlabeling, for low level detection of DNA modifications in vivo.

For the prediction of the mutagenicity, toxicity, and carcinogenicity, we studied the physico-chemical properties of several heterocyclic arylamines, arylamines and nitroarenes. In structure activity studies we determined the electronic parameters which show a correlation with these biological endpoints.

LIST OF PUBLICATIONS

Peer-reviewed journals (2015, International science index impact factor = IF)

- 1) **Sabbioni, G.**, Turesky, R. (2016) Biomonitoring human albumin adducts: the past, the present, and the future. *Chem. Res. Toxicol.*, **30**, in press, DOI: 10.1021/acs.chemrestox.6b00366. (IF=3.0)
- 2) **Sabbioni G**, Vanimireddy, L. R., Lummus ZL, Bernstein DI. (2016) Comparison of biological effects with albumin adducts of 4,4'-methylenediphenyl diisocyanate in workers. *Arch Toxicol*, DOI:10.1007/s00204-016-1846-0 (IF=6.6)
- 3) **Sabbioni G**, Hauri U (2016) Carcinogenic Tattoos? *Epidemiol, Biostat, Pub Health*. **13**, e12018-1, DOI: 10.2427/12018.
- 4) **Sabbioni G**, Dongari N, Sepai O, Kumar A, Baur X (2016) Determination of albumin adducts of 4,4'-methylenediphenyl diisocyanate after specific inhalative challenge tests in workers. *Toxicol Lett*, **260**, 46-51. (IF=3.5)
- 5) **Sabbioni G**, Norppa H, Hirvonen A, Jones CR, Yan H, Sepai O. (2016) Biomarkers of exposure, effect, and susceptibility in workers exposed to chloronitrobenzenes. *Biomarkers*, **21**, 721-730. (IF=2.0)
- 6) **Sabbioni G**, Dongari N, Sepai O, Kumar A. (2016) Determination of albumin adducts of 4,4'-methylenediphenyl diisocyanate in a 4,4'-methylenedianiline factory. *Biomarkers*, **21**, 731-738. (IF=2.0)

- 7) Glatt H, **Sabbioni G**, Monien BH and Meinel W. (2016). Use of genetically manipulated *Salmonella typhimurium* strains to evaluate the role of human sulfotransferases in the bioactivation of nitro- and aminotoluenes. *Environ Mol Mutagen*, **57**, 299-311. (IF=3.3)
- 8) Wilson M J, **Sabbioni G**, Rando R, Miller CA, 3rd (2014) Activation of aryl hydrocarbon receptor signaling by extracts of teak and other wood dusts. *Environ. Toxicol.* **30**, 1375-1384. (IF=2.9)
- 9) **Sabbioni G**, Dongari N, Kumar A, Schneider S. (2012) Synthetic approaches to obtain amino acid adducts of 4,4'-methylenediphenyl diisocyanate. *Chem. Res. Toxicol.*, **27**, 2704-2714. (IF=3.0).
- 10) **Sabbioni G**, Gu Q, Vanimireddy LR. (2012) Determination of isocyanate specific albumin-adducts in workers exposed to toluene diisocyanates. *Biomarkers*, **17**, 150-159. (IF=2.0)
- 11) **Sabbioni G**, Dongari N, Kumar A. (2010) Determination of a new biomarker in subjects exposed to 4,4'-methylenediphenyl diisocyanate. *Biomarkers*, **15**, 508-515. (IF=2.0)
- 12) Kumar, A., Vineis, P., Sacerdote, C., Fiorini, L., **Sabbioni, G.** (2010) Determination of new biomarkers to monitor the dietary consumption of isothiocyanates. *Biomarkers*, **15**, 739-745. (IF=2.0)
- 13) Kumar A, **Sabbioni G.** (2010) New biomarkers for monitoring the levels of isothiocyanates in humans. *Chem. Res. Toxicol.*, **23**, 756-765. (IF=3.0)
- 14) Kumar A, Dongari N, **Sabbioni G.** (2009) New isocyanate-specific albumin adducts of 4,4'-methylenediphenyl diisocyanate (MDI) in rats. *Chem. Res. Toxicol.*, **22**, 1975-1983. (IF=3.0)
- 15) **Sabbioni G**, Wesp H, Lewalter J, Rumler R. (2007) Determination of isocyanate biomarkers in construction site workers. *Biomarkers*, **12**, 468-483. (IF=2.0)
- 16) **Sabbioni G**, Rumler R. (2007) Biomonitoring of workers cleaning up ammunition waste sites. *Biomarkers*, **12**, 559-573. (IF=2.0)
- 17) **Sabbioni G**, Sepai O, Hirvonen A, Norppa H, Järventaus H, Yan H, Brooks LR, Warren SH, DeMarini DM, Liu YY. (2007) Comparison of biomarkers in workers exposed to 2,4,6-trinitrotoluene. *Biomarkers*, **12**, 21-37. (IF=2.0).
- 18) Jones CR, Sepai O, Liu YY, Yan H, **Sabbioni G.** (2007) Urinary metabolites and health effects in workers exposed chronically to chloronitrobenzene. *Biomarkers*, **12**, 1-20. (IF=2.0).
- 19) Beyerbach, A., Farmer, PB, **Sabbioni G.** (2006) Biomarkers for isocyanate exposure: synthesis of isocyanate DNA adducts. *Chem. Res. Toxicol.*, **19**, 1611-1618. (IF=3.0)
- 20) Beyerbach A, Rothman N, Bhatnagar VK, Kashyap R, **Sabbioni G.** (2006) Hemoglobin adducts in workers exposed to benzidine and azo dyes. *Carcinogenesis*, **27**, 1600-1606. (IF=4.9).
- 21) **Sabbioni G**, Jones CR, Sepai O, Hirvonen A, Norppa H, Järventaus H, Glatt HR, Pomplun D, Yan H, Brooks LR, Warren SH, DeMarini DM, Liu YY. (2006) Biomarkers of exposure, effect and susceptibility in workers exposed to nitrotoluenes. *Cancer Epidemiol. Biomarkers & Prev.*, **15**, 559-566. (IF=3.6).
- 22) Jones CR, Liu YY, Sepai O, Yan H, **Sabbioni G.** (2006) Internal exposure, health effects and cancer risk of humans exposed to chloronitrobenzene. *Environ. Science & Technol.*, **40**, 387-394. (IF=5.4).
- 23) **Sabbioni G**, Liu YY, Yan H, Sepai O. (2005) Hemoglobin adducts, urinary metabolites, and health effects in 2,4,6-trinitrotoluene exposed workers. *Carcinogenesis*, **26**, 1272-1279. (IF=4.9).
- 24) Jones CR, Sepai O, Liu YY, Yan H, **Sabbioni G.** (2005) Urinary metabolites of workers exposed to nitrotoluenes. *Biomarkers*, **10**, 10-28. (IF=2.0).
- 25) Jones CR, Liu YY, Sepai O, Yan H, **Sabbioni G.** (2005) Hemoglobin adducts in workers exposed to nitrotoluenes. *Carcinogenesis*, **26**, 133-143. (IF=4.9).
- 26) Jones CR, **Sabbioni G.** (2003) Identification of DNA adducts using HPLC/MS/MS following *in vitro* and *in vivo* experiments with arylamines and nitroarenes. *Chem. Res. Toxicol.* **16**, 1251-1263. (IF=3.0).
- 27) Jones CR, Beyerbach A, Seffner W, **Sabbioni G.** (2003) Hemoglobin and DNA adducts in rats exposed to 2-nitrotoluene. *Carcinogenesis*, **24**, 779-787. (IF=4.9).
- 28) **Sabbioni G**, Jones CR. (2002) Biomonitoring of arylamines and nitroarenes. *Biomarkers*, **7**, 347-421. (IF=2.0).
- 29) **Sabbioni G**, Hartley R, Schneider S. (2001) Synthesis of adducts with amino acids as potential dosimeters for the biomonitoring of humans exposed to toluenediisocyanate. *Chem. Res. Toxicol.*, **14**, 1573-1583. (IF=3.0).

- 30) Bolognesi C, Baur X, Marczyński B, Norppa H, Sepai O, **Sabbioni G.** (2001) Carcinogenic risk of toluene diisocyanate and 4,4'-methylenediphenyl diisocyanate: epidemiological and experimental evidence. *Crit. Rev. Toxicol.*, **31**, 737-772. (IF=5.4).
- 31) **Sabbioni G**, Beyerbach A. (2000) Hemoglobin adducts of aromatic amines: diamines and polyaromatic amines *J. Chromatogr. B.*, **744**, 377-387. (IF=2.7).
- 32) **Sabbioni G**, Hartley R, Henschler D, Hoellrigl-Rosta A, Koeber R, Schneider S. (2000) Isocyanate-specific hemoglobin adduct in rats exposed to 4,4'-methylenediphenyl diisocyanate. *Chem. Res. Toxicol.*, **13**, 82-89. (IF=3.0).
- 33) Beyerbach A, **Sabbioni, G.** (1999) Biomonitoring of arylamines: haemoglobin adducts of aniline derivatives. *Biomarkers*, **4**, 229-236. (IF=2.0).
- 34) Möller M, Henschler D, **Sabbioni G.** (1998) Synthesis and spectroscopic characterization of 4-chlorophenyl isocyanate (= 1-chloro-4-isocyanatobenzene) adducts with amino acids as potential dosimeters for the biomonitoring of isocyanate exposure. *Helv. Chim. Acta*, **81**, 1254-1263. (IF=1.1).
- 35) **Sabbioni G**, Schütze D. (1998) Hemoglobin binding of bicyclic aromatic amines. *Chem. Res. Toxicol.*, **11**, 471-483. (IF=3.0).
- 36) **Sabbioni G**, Lamb JH, Farmer PB, Sepai O. (1997) Reactions of 4-methylphenyl isocyanate with amino acids. *Biomarkers*, **2**, 223-232. (IF=2.0).
- 37) Schütze D, Sagelsdorff P, Sepai O, **Sabbioni G.** (1996) Synthesis and quantification of DNA adducts of 4,4'-methylenedianiline. *Chem. Res. Toxicol.*, **9**, 1103-1112. (IF=3.0).
- 38) Ward EM, **Sabbioni G**, DeBord DG, Teass AW, Brown K, Talaska G, Roberts D, Ruder A, Streicher RP. (1996) Biological monitoring of aromatic amine exposures at a chemical plant with a known bladder excess. *J. Nat. Cancer Inst.* **88**, 1040-1052. (IF=11.4).
- 39) Beyerbach A, Farmer PB, **Sabbioni G.** (1996) Synthesis and analysis of DNA adducts of arylamines. *Biomarkers*, **1**, 9-20. (IF=2.0).
- 40) **Sabbioni G**, Wei J, Liu YY. (1996) Determination of hemoglobin adducts in workers exposed to 2,4,6-trinitrotoluene. *J. Chromatogr. B.*, **682**, 243-248. (IF=2.7).
- 41) **Sabbioni G**, Sepai O. (1995) Comparison of hemoglobin binding, mutagenicity and carcinogenicity of arylamines and nitroarenes. *Chimia*, **49**, 374-380. (IF=1.0).
- 42) Sepai O, Henschler D, **Sabbioni G.** (1995) Albumin adducts, hemoglobin adducts and urinary metabolites in workers exposed to 4,4'-methylenediphenyl diisocyanate. *Carcinogenesis*, **16**, 2583-2587. (IF=4.9).
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- 44) **Sabbioni G**, Beyerbach A. (1995) Determination of hemoglobin adducts of arylamines in humans. *J. Chromatogr. B.*, **667**, 75-83. (IF=2.7).
- 45) Sepai O, Henschler D, Czech S, Eckert P, **Sabbioni G.** (1995) Exposure to toluene diamines from polyurethane-coated breast implants. *Toxicol. Lett.*, **77**, 371-378. (IF=6.6).
- 46) Schütze D, Sepai O, Lewalter J, Miksche L, Henschler D, **Sabbioni G.** (1995) Biomonitoring of workers exposed to 4,4'-methylenedianiline or 4,4'-methylenediphenyl diisocyanate. *Carcinogenesis*, **16**, 573-582. (IF=4.9).
- 47) **Sabbioni G.** (1994) Hemoglobin binding of arylamines and nitroarenes: molecular dosimetry and quantitative structure activity relationships. *Environ. Health Perspect.*, **102** (Suppl 6), 61-67. (IF=8.4).
- 48) **Sabbioni G.** (1994) Hemoglobin binding of nitroarenes and quantitative structure-activity relationships. *Chem. Res. Toxicol.*, **7**, 267-274. (IF=3.0).
- 49) **Sabbioni G.** (1993) Hemoglobin binding of aromatic amines: molecular dosimetry and quantitative structure activity relationship of the N-oxidation. *Environ. Health Perspect.*, **99**, 213-216. (IF=8.4).
- 50) **Sabbioni G**, Wild D. (1992) Quantitative structure activity relationships of mutagenic aromatic and heterocyclic amines. *Carcinogenesis*, **13**, 709-713. (IF=4.9).
- 51) **Sabbioni G.** (1992) Quantitative structure activity relationship of the N-oxidation of aromatic amines. *Chem.-Biol. Interact.*, **81**, 91-117. (IF=2.6).

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- 53) **Sabbioni G**, Wild CP. (1991) Identification of an aflatoxin G₁ - serum albumin adduct and its relevance to the measurement of human exposure to aflatoxins. *Carcinogenesis*, **12**, 97-103. (IF=4.9).
- 54) **Sabbioni G**, Neumann HG. (1990) Quantification of haemoglobin binding of 4,4'-methylenebis(2-chloroaniline) (MOCA) in rats. *Arch. Toxicol.*, **64**, 451-458. (IF=6.6).
- 55) **Sabbioni G**, Neumann HG. (1990) Biomonitoring of arylamines: hemoglobin adducts of urea and carbamate pesticides. *Carcinogenesis*, **11**, 111-115. (IF=4.9).
- 56) **Sabbioni G**, Ambs S, Wogan GN, Groopman JD. (1990) The aflatoxin-lysine adduct quantified by high pressure liquid chromatography from human serum albumin samples. *Carcinogenesis*, **11**, 2063-2066. (IF=4.9).
- 57) **Sabbioni G**. (1990) Chemical and physical properties of the major serum albumin adduct of aflatoxin B₁ and their implications for the quantification in biological samples. *Chem.-Biol. Interact.*, **75**, 1-15. (IF=2.6).
- 58) Wild CP, Jiang YZ, **Sabbioni G**, Chappot B, Montesano R. (1990) Evaluation of methods for quantitation of aflatoxin-albumin adducts and their application to human exposure assessment. *Cancer Res.*, **50**, 245-251. (IF=8.6).
- 59) Weber A, Galli R, **Sabbioni G**, Stämpfli U, Walther S, Neuenschwander M. (1989) Versuche zur Synthese von Calicen aus trisubstituierten Cyclopropanen und Cyclopentenon. *Helv. Chim. Acta*, **72**, 41-50. (IF=1.1).
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- 61) **Sabbioni G**, Skipper PL, Büchi G, Tannenbaum SR. (1987) Isolation and characterization of the major serum albumin adduct formed by aflatoxin B₁ in vivo in rats. *Carcinogenesis*, **8**, 819-824. (IF=4.9).
- 62) **Sabbioni G**, Jones JB. (1987) Enzymes in organic synthesis 39. Preparations of chiral cyclic acid-esters and bicyclic lactones via stereoselective pig liver esterase-catalyzed hydrolyses of cyclic meso diesters. *J. Org. Chem.*, **52**, 4565-4570. (IF=4.8).
- 63) **Sabbioni G**, Tannenbaum SR, Shuker DEG. (1986) Synthesis of volatile, fluorescent N-7-methylguanine derivatives via reaction with 2-substituted fluorinated malondialdehydes. *J. Org. Chem.*, **51**, 3244-3246. (IF=4.8).
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Book chapter

- 72) **Sabbioni G**. (2001) *Biological monitoring of arylamines and nitroarenes*. In: Deutsche

- Forschungsgemeinschaft. *Biological Monitoring*, Wiley-VCH Weinheim (ISBN: 3-527-27410-3), Germany, pp 24-34.
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- 74) **Sabbioni G**, Sepai O. (1998) *Determination of human exposure to mycotoxins*. In: Sinha, K.K. and Bhatnagar, D. (eds) *Mycotoxins in Agriculture and Food Safety*. Marcel Dekker, New York, pp 183-226.
- 75) **Sabbioni G**, Rumler R, Wesp HF. (1998) *Untersuchungen zur internen Beanspruchung bei der Verarbeitung Isocyanathaltiger Produkte im Tiefbau*. In: Radandt S, Grieshaber R, Schneider W. *Prävention von arbeitsbedingten Gesundheitsgefahren und Erkrankungen*. Monade Verlag und Agentur, Leipzig 1998, pp 173-182.
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