

**BIOGRAPHICAL SKETCH**

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NAME: Roger W. Giese

eRA COMMONS USER NAME (credential, e.g., agency login): R.GIESE

POSITION TITLE: Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Hamline University	B.S.	1961-1965	Chemistry
Massachusetts Institute of Technology	Ph.D.	1965-1969	Organic Chemistry
Harvard Medical School	Post-doc	1969-1973	Biochemistry

**A. Personal Statement**

My research interest is in the area of mass tag mass spectrometry applied to clinical samples.

**B. Positions and Honors****Positions and Employment**

(1973 - 1977) Assistant Professor, Northeastern University  
 (1974 - present) Faculty Fellow, Barnett Institute of Chemical Analysis  
 (1977 - 1981) Associate Professor, Northeastern University  
 (1981 - present) Professor of Chemistry and Biomedical Science, Northeastern University  
 (1999 - present) Director, Environmental Cancer Research Program

**Other Experience and Professional Memberships**

(1965 - present) Member, American Chemical Society  
 (1966 - 1969) NIH Predoctoral Research Fellowship  
 (1969 - 1971) American Cancer Society Postdoctoral Research Fellowship  
 (1969 - 1972) Associate on the Staff and Training Program in Human Biochemistry, Brigham and Women's Hospital  
 (1973 - present) Membership, American Association for the Advancement of Science  
 (1973-1987) Director, M.S. Program in Clinical Chemistry, Northeastern University  
 (1977 - present) Diplomat, American Board of Clinical Chemistry  
 (1979 - 1986) Editorial Review Board, Therapeutic Drug Monitoring  
 (1989) Editorial Board, Trends in Analytical Chemistry  
 (1987 - 2001) NIH Special Study Section, SBIR  
 (1987 - 1990) Section Leader, Medicinal Chemistry  
 (1990- 2017) Editor, Journal of Chromatography

(2003 - 2005) NIH Instrumentation and Systems Development Study  
(2006 - 2007) Enabling Bioanal. Biophys. Technol. NIH Study Section  
(2012) Metabolomics Study section, NIH  
(2012) STTR/SBIR Study Section, NIH Second Tier  
(2017) Adductomics Study Section, NIH

#### Honors

(1964) Bluhm Scholarship and Service Award  
(1961 - 1965) George McPherson Scholarship  
(1965 - 1966) Woodrow Wilson Fellowship  
(1999) Klein Lecturer, Northeastern University  
(2010) Innovative Teaching Award, Northeastern University

#### **Recent Publicatons**

202. Cellai, F., Munnia, A., Viti, J., Doumett, S., Ravagli, C., Ceni, E., Mello, T., Polvani, S., Giese, R. W., Baldi, G., Galli, A., Peluso, M.E. M. (2017) Magnetic Hyperthermia and Oxidative Damage to DNA of Human Hepatocarcinoma Cells, *Int. J. Mol.* 18, 1-15. Doi:10.3390/ijms18050939.
203. Giese, R.W. (2017) Interview, *MetaboNews*, February Issue 66.
204. Munnia A., Giese, R. W., Polvani, S., Galli, A., Cellai, F., Peluso, M.E.M. (2017) Bulky DNA Adducts, Tobacco Smoking, Genetic Susceptibility, and Lung Cancer Risk, in *Advances in Clinical Chemistry*, Makowski, G.S., ed., Academic Press, 231-277.
205. Shao, G., Agar, J., Giese, R. W., (2017) Cold-Induced Aqueous Acetonitrile Phase Separation: A Salt-Free Way to Begin QuEChERS, *J. Chromatogr. A* 1506, 128-133. doi.org/10.1016/j.chroma.2017.05.045
206. Pleil, J. Giese, R.W. (2017) Integrating exhaled breath diagnostics by disease-sniffing dogs with instrumental laboratory analysis, *J. Breath Res.* 11, 032001. doi.org/10.1088/1752-7163/aa79bc
207. Cordero, J. F., Meeker, J.D., Loch-Carusio, Giese, R., Padilla, I., Vesper, D., Kaeli, D., Sheahan, T., Brown, P., Velez-Vega C. M., Alshawabkeh, A. N. (2018) Team Science Applied to Environmental Health Research: Karst Hydrogeology and Preterm Birth in Puerto Rico, In: White, W., Herman, J., Herman, E., Rutigliano, M., (eds) *Karst Ground water Contamination and Public Health*, *Advances in Karst Science* Springer, Cham.
208. Giese, R. W. and Wang, P. (2018) Cationic Tags for Attomole Level Detection of Analytes by Mass Spectrometry, U.S. Patent 10,036,743.
209. Wang, P. Giese, R. W. (2018) Interpretation of Mass Spectral Data for the Ciplatin 1,2 Intrastrand Guanine-Guanine Adduct, *Chem. Res. Toxicol.* doi:10.1021/acs.chemrestox.8b00134
210. Giese, R. G., Shao, G., MacNeil, M., Wang, P. (2018) Caged Bags of Porous Materials, US Patent Application Number 13/955,512, allowed.