

Sherman E. Ross, MA

540 South Forest Street, #5-203
Denver, Colorado 80246
303.355.9391

juggernaut540@q.com

Analytical Chemist

Chromatographic Methods Development and Validation
Quantitative Analysis ♦ Gas and Liquid Chromatography ♦ Data Analysis
Scientific Writing ♦ Protein Chemistry ♦ Lab Management

QUALIFICATIONS

- ❖ An accomplished analytical and protein chemist with extensive experience managing complex projects and initiatives.
- ❖ A skilled research analyst with experience in Gas and Liquid Chromatography Methods Development.
- ❖ Empowering leader – Recognized for creative approach in effectively managing staff and contractors.
- ❖ An innate ability to analyze complex scientific processes, implement necessary changes to processes or protocols, meet budgetary and compliance goals and achieve or exceed targeted standards of quality.
- ❖ Excellent multi-level communicator, committed to client/customer service excellence and the establishment of strong, cohesive, enduring relationships with customers and stakeholders.
- ❖ Consistently develops cohesive, productive technical work.
- ❖ A persistent problem solver with excellent decision-making skills and an intuitive ability to recognize problems and develop strategies to promote best practices.

KEY ACHIEVEMENTS

Scientific Administration

- Developed and qualified new test methods and protocols to generate and analyze experimental data for project planning and practical application.
- Produced detailed documentation from experimental data for internal and external clientele
- Analyzed technical data to determine test effectiveness, validation, quality control and test instrument verification.
- Provided leadership and oversight to daily operations while fostering positive working relationships with client/customers, technicians and staff personnel.
- Developed new analytical techniques for the chemical analysis of API drug compounds.
- Performed several innovative experiments to identify various peptide-based inhibitors to the human neutrophil elastase.
- Routinely prepared both internal and external reports and made presentations as required.
- Interpreted data and reported scientific results in several areas including enzyme kinetics and drug metabolism studies.
- Performed routine analysis on peptide-based drugs utilizing HPLC.
- Authored or co-authored over two dozen publications.

Research Design and Laboratory Management

- Collaborated with various departments to design and develop organizational policies and operational standards for various analytical methods.
- Oversaw day-to-day operation of GC/MS Laboratory
- Coordinated the development of several experimental projects involving gel electrophoresis, protein purification and enzyme kinetics.
- Routinely collaborated with internal research communities regarding analytical practices using HPLC, GC and GC/MS.
- Managed technical professionals, assessed performance, and coordinated performance reviews.

CAREER SUMMARY AND ACCOMPLISHMENTS

Staff Chemist, Cedarburg Hauser Corp., Denver, CO
Staff Scientist, CORTECH, Denver, Colorado
Associate Research Scientist, CORTECH, Denver, Colorado
Research Assistant, University of Colorado Health Science Center. Denver, CO

EDUCATIONAL BACKGROUND CONTINUING EDUCATION / CERTIFICATIONS / AWARDS

University of Texas Health Sciences Center and Southwestern Medical
School Dallas, TX, Graduate School of Biomedical Sciences, Department of Biochemistry.
Degree: **Master of Arts, Biochemistry.**

University of Colorado, Denver, CO, College of Liberal
Arts and Sciences, Division of Natural and Physical Sciences.
Degree: **Bachelor of Arts with Distinction, Biology, History.**

Southern Methodist University, Dallas, TX.
Course work: **Physical Chemistry.**

SELECTED JOURNAL PUBLICATIONS

- Coeshott, C, Ohnemus, C, Pilyavskaya, A, *Ross, S. E.*, Wiczorek, M, Kroona, H, Leimer, A, and Cheronis, J. (1999). "Converting Enzyme-independent Release of Tumor Necrosis Factor α and IL-1 β From a Stimulated Human Monocyte Cell Line in the Presence of Activated Neutrophils or Purified Proteinase 3." *Proceedings of the National Academy of Sciences*, 96, 6261.
- Wiczorek, M., Gyorkos, A., Spruce, L., Ettinger, A., *Ross, S. E.*, Kroona, H., Burgos-Lepley, C., Bratton, L., Drennan, T., Garnert, D., Von Burg, G., Pilkington, C., and Cheronis, J. (1999). "Bio-Chemical Characterization of α -Ketoaxadiazole Inhibitors of Elastases." *Archives of Biochemistry and Biophysics*, 367, 193.
- Leimer, A. H., Kroona, H. B., Blodgett, J. K., Whalley, E. T., *Ross, S. E.*, Burkard, M. R., Zuzack, J. S., Gernert, D. L. and Dyckes, D. F. (1997). "In Vitro Studies of a Bradykinin B₁/B₂ Antagonist Linked to a Human Neutrophil Elastase Inhibitor: A Heterodimer for the Treatment of Inflammatory Diseases." *Canadian Journal of Physiology and Pharmacology*, 75, 633.
- Wiczorek, M. Z., Pilyavskaya, A. S., Burkard, M., Zuzack, J. S., Jones, S. W., Francis, M. D., Beckey, V. E., *Ross, S. E.*, Goodfellow, V. S., Fitzpatrick, T. D. Marathe, M. V., Gyorkos, A., Spruce, L. W., Selig, W. M., Stewart, J. M., Gera, L., and Whalley, E. T. (1997). "Bradykinin Antagonists in Human Systems: Correlation Between Receptor Binding, Calcium Signaling in Isolated Cells and Functional Activity in Isolated Ileum." *Biochemical Pharmacology*, 54, 283.
- Hanson, W. L., McCullough, R. G., Selig, W. M., Wiczorek, M. Z., *Ross, S. E.*, Whalley, E. T., Stewart, J. M., and Gera, L. (1996). "In Vivo Pharmacological Profile of Novel, Potent, Stable BK Antagonists at B₁ and B₂ Receptors." *Immunopharmacology*, 33, 191.
- Goodfellow, V. S., Marathe, M. V., Kuhlman, K. G., Fitzpatrick, T. D., Cuadrado, D., Hanson, W., Zuzack, J. S., *Ross, S. E.*, Wiczorek, M., Burkard, M., and Whalley, E. T. (1996). "Bradykinin Receptor Antagonists Containing N-Substituted Amino Acids: *In Vitro* and *In Vivo* B₂ and B₁ Receptor Antagonist Activity." *Journal of Medicinal Chemistry*, 39, (7), 1472.

MERITORIOUS ACHIEVEMENT

Awarded O'Hara Competitive Fellowship University of Texas

SKILLS AND TECHNICAL APPLICATIONS

MS Word, Excel, and various LIMS