

CURRICULUM VITAE
MARINA KAZAKEVICH, MS, MLS (ASCP)^{CM}

PERSONAL DATA

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EDUCATIONAL BACKGROUND

2010 Medical Laboratory Scientist certified by the American Society for Clinical Pathology (ASCP), MLS (ASCP)^{CM}
2010 BS, Medical Lab Science, Idaho State University, Pocatello, ID
1980 MS, Biochemistry, St. Petersburg State University, St. Petersburg, Russia
1978 BS, Biochemistry, St. Petersburg State University, St. Petersburg, Russia

OCCUPATION

2019 – present ISU, Department of Biological Sciences/Kasiska Division of Health Sciences:
Clinical Assistant Professor/Clinical Coordinator
2014 – 2019 ISU, Department of Biological Sciences: Senior Lecturer
ISU Medical Laboratory Science Program: Clinical Coordinator
2005 – present Creighton University Medical Center, School of Dentistry, Department of Oral Biology
Omaha, NE: Clinical Instructor (affiliate faculty)
2012 – 2014 University of Massachusetts Dartmouth, Department of Medical Laboratory Science:
Lecturer
2011 – 2012 Georgia Gwinnett College, Lawrenceville, GA: Biology Faculty
2010 - 2011 Bingham Memorial Hospital, Blackfoot, ID: Medical Technologist
1997 - 2009 Idaho State University, Department of Biological Sciences: Associate Lecturer
2004 University of Rochester, Department of Biochemistry and Biophysics, Rochester, NY:
Research Technician
1996 - 1997 Wayne State University School of Medicine, Department of Biochemistry and
Molecular Biology, Detroit, MI: Research Assistant
1995 Michigan Technological University, Department of Biological Sciences, Houghton,
MI: Visiting Research Scholar
1992 - 1994 Carmel Hospital, Departments of Biochemistry and Pharmacology, Haifa, Israel:
Research Fellow
1991 - 1992 Rambam Hospital, Department of Biochemistry, Haifa, Israel: Research Fellow
1983 – 1990 Central Institute for Roentgenology and Radiology, St. Petersburg, Russia:
Research Assistant
1980 - 1983 Mechnikov Medical School, St. Petersburg, Russia: Assistant Professor

AWARDS

1992 – 1994 Shapiro Grant for Scientists, Israel

TEACHING EXPERIENCE (undergraduate/graduate: ISU; UMass Dartmouth; Georgia Gwinnette College)

BIOL 1107	GGC	Principles of Biology and lab
BIOL 2206	ISU	Cell Biology
MLS 211	UMD	Human Physiology
BIOL 4432/5532	ISU	Biochemistry
BIOL 4445/5545	ISU	Biochemistry I
BIOL 4447/5547	ISU	Biochemistry II
BIOL 4499/5599	ISU	Regulation of Metabolism
BIOL 4499/5599	ISU	Signal Transduction and Regulation
BIOL 4453/5553	ISU	Endocrinology
BIOL 4444	ISU	Molecular Biology
BIOL 4419/5519	ISU	Mammalian Histology
BIOL 3324	ISU	Developmental Biology
MLS 116	UMD	Fundamentals of Medical Laboratory Science Techniques
MLS 122	UMD	Human Genetics lab
MLS 341	UMD	Clinical Chemistry in Diagnostic Techniques
MLS 342	UMD	Clinical Instrumental Analysis
MLS 443	UMD	Clinical Biochemistry
MLS 4420/5520	ISU	Medical Immunology
MLS 4437/5537	ISU	Critical Analysis of Lab Information: Clinical Chemistry
MLS 4410	ISU	Phlebotomy/Hematology Practicum
MLS 4455	ISU	Student Laboratory Practices
MLS 520	UMD	Clinical Case Studies

LABORATORY COURSES (instructor and course supervisor/coordinator)

BIOL 1107	GGC	Principles of Biology (instructor only)
BIOL 2207	ISU	Cell Biology
BIOL 3334	ISU	Experimental Biochemistry
BIOL 4448/5548	ISU	Advanced Experimental Biochemistry
BIOL 4449/5549	ISU	Human Physiology I
BIOL 4456/5556	ISU	Human Physiology II
BIOL 4411/5511	ISU	Molecular Biology Techniques (instructor only)
BIOL 4419/5519	ISU	Mammalian Histology

PRESENTATIONS/ADVISING

2018	Educating our future professionals, ASCLS Region VIII Convention, Twin Falls, ID
2015	Cancer Stem Cell Theory: What Does This Mean For Cancer Treatment? ASCLS (American Society for Clinical Laboratory Scientists) Region VIII Intermountain State Seminar, Jackson Hall, WI
2014	Ventricular Tachycardia and Chronic Kidney Disease, senior thesis advisor, MLS Department, UMass Dartmouth
2013	Thyroid gland: Evaluation of Endocrine Function, ASCLS Region I Convention, Springfield, MA
2010	Tumor Suppressor p53 as Therapeutic Target, roundtable discussion, ASCLS Spring Convention, Pocatello, ID
2006	Protein Phosphorylation as Major Cellular Regulatory Mechanism: Antidiabetic Drugs and Protein Phosphorylation, seminar presentation, Department of Biological Sciences, ISU

CURRICULUM DEVELOPMENT

- Course Supplementary Study Guide for Biochemistry BIOL 432/532 developed
- NEW lab manuals for the following laboratory courses developed:
 - BIOL 2206 Cell Biology
 - BIOL 3334 Experimental Biochemistry
 - BIOL 4448 Advanced Experimental Biochemistry
 - BIOL 4419/5519 Mammalian Histology

MLS QUALIFICATIONS: GENERALIST

Analysis in all areas of the clinical laboratory including clinical chemistry, blood bank, microbiology, hematology, and urinalysis; phlebotomy skills.

PROFESSIONAL DEVELOPMENT

- 2018 ISU Neuroscience Min-Symposium: Ion Channels to Behavior, Pocatello, ID
- 2017 Society for Mathematical Biology, Annual Meeting, Salt Lake City, UT
- 2010 American Red Cross Blood Banking Workshop, Boise, ID
- 2008 Snake River Association for Neuroscience, Fall Conference, ISU
- 2008 ISU Bioinformatics Workshop, Lava Hot Springs, ID
- 2007 ISU Bioinformatics Workshop, Lava Hot Springs, ID
- 2005 ISU Practical Bioinformatics workshop, Pocatello, ID
- 2003 Seminar "A Field Guide to GenBank and NCBI Molecular Biology Resources", Pocatello, ID
- 2014 *Lehninger Biochemistry*, 6e Pre-Revision Survey, Part II, *Freeman & Co*
- 2013 *Berg's Biochemistry* textbook review: Biochemistry Media Survey 2013 (8th edition), *Freeman & Co*
- 2008 Textbook reviewer for *Wiley & Sons*
- 2006-07 Textbook reviewer for *Freeman & Co*

RESEARCH EXPERIENCE

AREAS OF INTEREST: Impact of asbestos on red/ox potential of macrophages
Enzyme kinetics under different storage conditions: LDH, MDH, GDH
Prostate specific antigen (PSA) glycosylation
Hybridoma production and screening of monoclonal antibodies

METHODS:

Biotechnology/Molecular Biology: PCR, DNA sequencing, bacterial transformation, DNA isolation and purification, plasmid transfection
Chromatography ("classic" chromatography methods and FPLC, HPLC)
Electrophoresis: proteins (native PAGE and SDS-PAGE) and DNA
Western blotting, ELISA; differential and gradient centrifugation

PROFESSIONAL AFFILIATIONS

American Society for Clinical Pathology (ASCP)
National Society for Clinical Chemistry
American Society for Clinical Laboratory Sciences (ASCLS)

PUBLICATIONS

1. Kaufman, S.L., Kuchumov, A.R., **Kazakevich, M.**, Vinogradov, S.N. (1998), Analysis of a 3.6-M Da Hexagonal Bilayer Hemoglobin from *Lumbricus terrestris* Using a Gas-Phase Electrophoretic Mobility Molecular Analyzer, *Analytical Biochemistry* 259, 195-202.
2. Pavlova, R., **Kazakevich, M.** (1986), Two types of Responses in Biological Systems to the Physical and Chemical Stimuli of Low Intensity, *Proceedings of Mechnikov Medical School*, St. Petersburg, Russia.
3. Samojlovich, M., **Kazakevich, M.**, Gryazeva, I. (1985), Hybridoma Preparation on the Cattle Sera, *Monoclonal Antibodies in Microbiology and Virology, Proceedings of the Mechnikov Institute of Vaccines and Sera*, Moscow, Russia.
4. Sokolovsky, V., Schlejkin, A., **Kazakevich, M.** (1983), Binding of Glutathione and Ascorbic Acid by Proteins During Refrigerator Storage, *Improvement of Methods of frozen Foodstuff Preservation, Proceedings of the Institute for Freezing Technology*, St. Petersburg, Russia.
5. Sokolovsky, V., Schlejkin, A., **Kazakevich, M.** (1981), Biochemical Changes in the muscles of sea fish during refrigerator storage, *Technical Report # 102-1-81, Mechnikov Medical School*, St. Petersburg, Russia.