

Ekaterina Altynova4000 Presidential Blvd. Apt 1415 • Philadelphia, PA 19131 • (937) 902-3881 • Ekaterina.Altynova@Gmail.com

EDUCATION**PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE, *Doctor of Osteopathic Medicine***

- Course work in anatomy, microanatomy, physiology, biochemistry, development **Philadelphia, PA**
- osteopathic manipulative med, neuroscience and medical ethics, clinical exposure **08/13 – Current**

DREXEL UNIVERSITY COLLEGE OF MEDICINE, *Certificate of Interdepartmental Medical Science*

- Course work in biochemistry, microanatomy, physiology, immunology, nutrition **Philadelphia, PA**
- immunology, neuroscience and medical ethics **08/11 – 05/12**

SWARTHMORE COLLEGE, *Bachelor of Arts, Course Major Biology, Course Minor Spanish*

- Cumulative GPA 3.3/4.0; Natural Science GPA 3.4/4.0 **Swarthmore, PA**
- Coursework in cellular, molecular, environmental and developmental biology, **08/04 – 06/08**
- human genetics, physiology, evolution, biochemistry, organic chemistry and statistics

UNIVERSIDAD DE LEÓN: SUMMER INSTITUTE OF HISPANIC STUDIES

- Coursework in Spanish literature, language and culture **León, Spain**

UNIVERSITY OF PENNSYLVANIA

- Course work in classical and modern physics; GPA 3.5/4.0 **Philadelphia, PA**

08/08 – 05/09

WORK EXPERIENCE***Summer Camp Counselor, BOYS AND GIRLS CLUB OF PHILADELPHIA* 05/13-08/13**

- Worked with inner city kids teaching them fun educational activities

Research Specialist, Laboratory Manager, UNIVERSITY OF PENNSYLVANIA SCHOOL OF***MEDICINE Dr. Haig Kazazian Jr., M.D. Laboratory; Department of Genetics* Philadelphia, PA**

- Research in gene therapy for Hemophilia A using murine and canine models **05/08 – 12/10**
- Ran mouse colony, clotting/protein assays, DNA/RNA and tissue work
- Ordered supplies/primers, monitored radiation use and disposal and equipment maintenance

Organic Chemistry Teaching Assistant, SWARTHMORE COLLEGE**Swarthmore, PA**

- Graded laboratory notebooks and tutored students **01/08 – 06/08**
- Aided in laboratory procedures, preparing experiments and using experimental machinery

Genetics Teaching Assistant, SWARTHMORE COLLEGE**Swarthmore, PA**

- Hosted study groups, graded homework, met with students, tutored

Statistics Tutor, SWARTHMORE COLLEGE**Swarthmore, PA**

- Explained lecture/text material, helped with homework and test preparation **08/06 – 06/07**
- Aided in statistical software usage such as Microsoft Excel and JMP

Fitness Trainer, PREMIER LADIES FITNESS**Dayton, OH**

- Personal fitness trainer, sales, nutritional counseling **06/06 – 1/08**

English-Russian Interpreter, MIAMI VALLEY INTERPRETERS**Dayton, OH**

- Interpreter at hospitals/ clinics/ job centers/ government offices, and court **06/05 – 08/05**
- Volunteer translator at Catholic Social Services for Russian refugees

CLINICAL VOLUNTEER EXPERIENCE***Intern, TEMPLE UNIVERSITY SCHOOL OF MEDICINE*****Philadelphia, PA**

- Shadowed Dr. Heather Clauss & Dr. Bennett Lorber **04/11-05/11**
- Internal Medicine (Infectious Disease/Transplants)

Intern, ALBERT EINSTEIN MEDICAL CENTER**Philadelphia, PA**

- Shadowed Dr. Jonathon Leiser, in Emergency Department **04/11**
- Many patients from urban underprivileged community

Intern, ELIZABETH HEART HOSPITAL**Dayton, OH**

- Shadowed Dr. Lawrence Goldstick, Neurologist
- Patient visits and clinical trial patients in private practice

03/11-04/11

Intern, HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA**Philadelphia, PA**

- Shadowed Dr. Jonathan Gavrin, Director of Anesthesiology & Critical Care
- Post-op & pre-op patient visits, surgeries in operating room, medical ethics meetings

01/11 – 04/11

Intern, BEAVERCREEK DERMATOLOGY**Beavercreek, OH**

- Shadowed Dr. Kathryn Balazs, Dermatologist in private practice

12/10

Intern, SUMMIT MEDICAL GROUP; DEPARTMENT OF ENDOCRINOLOGY**Summit, NJ**

- Shadowed Dr. Jeffrey Bauman, Endocrinologist, private practice

08/07

Intern, DREXEL HILL PEDIATRICS**Drexel Hill, PA**

- Shadowed Dr. Kevin Brown goehl, Pediatrician, private practice

08/07

LEADERSHIP AND COMMUNITY SERVICE***Volunteer/Advocate for Action AIDS*****Philadelphia, PA**

- “Buddy” for person living or affected by HIV/AIDS (provide emotional support)
- Dining Out For Life Ambassador, HIV/AIDS Educator, Special events planner, Clerical & Office worker

01/11-05/12

Lead Coordinator and Facilitator of SIBShop, SWARTHMORE COLLEGE**Swarthmore, PA**

- Conceptualized/founded a recreational program for siblings of disabled children
- Organized weekly activities for children and information sessions for parents

01/07-05/08

Red Cross Blood Drive Committee Planning Member, SWARTHMORE COLLEGE**Swarthmore, PA**

- Publicized and organized bi-annual blood drive on campus
- Collected signatures and organized students willing to participate in blood drive

08/06 – 05/08

Leader of Expanding Your Horizons, SWARTHMORE COLLEGE**Swarthmore, PA**

- Organized activities in science for young women in middle school

08/06 – 05/08

AWARDS/PUBLICATIONS/SKILLS**Awards:***Swarthmore Barr Scholar* (05/08, Swarthmore College)*Swarthmore Foundation Grant for SIBShop* (08/07, Swarthmore College)*PCOM Board of Trustees Merit Scholarship* (04/12, Philadelphia College of Osteopathic Medicine)**Languages:**

Native speaker in English and Russian; Fluent in Spanish and French

Skills

Laboratory Assays: ELISA, COATEST, Bethesda, APTT, Southern and Western blots, protein purification, DNA/RNA extraction, plasmid purification, Peripheral Blood Mononuclear Cell isolation, Immunofluorescence, FISH, Quantitative PCR, Polymerase Chain Reaction, gel electrophoresis, Thiobarbituric Acid Reactive Substances Assay, Nuclear Magnetic Resonance

Animal work: Tissue harvest and preservation from murine and canine models. Retro-orbital and tail bleeding, tail-vein and hydrodynamic injections in mouse model. Breeding, genotyping and deriving new strains of mice. Run and maintain mouse colony.

Analytical and Programming Skills: Statistical Analysis, C, JMP

Technical Skills: Microsoft Office Suite, Windows, Mac OS

Athletics

Varsity Swim Team, SWARTHMORE COLLEGE (08/04 – 06/06)

Ekaterina Altynova – List of Publications

53rd American Society of Hematology Annual Meeting and Exposition – San Diego, CA (December 10-13, 2011)

Amy M. Lange, B.S.^{1*}, Ekaterina Altynova, B.S.^{2*} and Denise E. Sabatino, Ph.D.^{1,2} 321. **Overexpression of Factor VIII Is Associated with Immune Responses to Factor VIII and Cellular Stress in Hemophilia A Mice.** *Blood* (ASH Annual Meeting Abstracts), Dec 2011; 118: 22

52nd American Society of Hematology Annual Meeting and Exposition – Orlando, FL (December 4-7, 2010)

Cao, Wenjing, Sabatino, Denise E, Altynova, Ekaterina, Zheng, X. Long. **Reconstitution of Recombinant Factor VIII In fVIII-/- mice Restores Von Willebrand Factor Homeostasis.** *Blood* (ASH Annual Meeting Abstracts) Dec 2010 116(21): Abstract 911.

Publication in Molecular Therapy

Denise E. Sabatino,¹ Amy M. Lange,¹ Ekaterina S. Altynova,¹ Rita Sarkar,¹ Shangzhen Zhou,² Elizabeth P. Merricks,⁴ Helen G. Franck,⁴ Timothy C. Nichols,⁴ Valder R. Arruda,^{2,3} and Haig H. Kazazian, Jr.¹ **Efficacy and safety of long-term prophylaxis in severe hemophilia A dogs following liver gene therapy using AAV vectors.** *Molecular Therapy*. (16 November 2010) | doi:10.1038/mt.2010.24

¹ Department of Genetics, University of Pennsylvania School of Medicine, Philadelphia, PA; ² The Children's Hospital of Philadelphia, PA; ³ Department of Pediatrics, University of Pennsylvania School of Medicine, Philadelphia, PA; ⁴ Department of Pathology and Laboratory Medicine, University of North Carolina, Chapel Hill, NC

51st American Society of Hematology Annual Meeting and Exposition – New Orleans, LA (December 5-8, 2009)

Sabatino, Denise E., Altynova, Ekaterina, Lange, Amy M., Zhou, Shangzhen, Merricks, Elizabeth P., Dillow, Aaron M., Nichols, Timothy C., Arruda, Valder R., Kazazian, Haig H., Jr. **Successful Long Term Therapeutic Expression of Factor VIII in Hemophilia A Dogs After Administration of AAV-cFVIII Using a Two-Chain or Single Chain Delivery Approach.** *Blood* (ASH Annual Meeting Abstracts) 2009 114: Abstract 546.

Cao, Wenjing, Sabatino, Denise E, Altynova, Ekaterina, Camire, Rodney M., Zheng, X. Long. **Structural Elements of FVIII Required for Accelerating Proteolytic Cleavage of Von Willebrand Factor by ADAMTS13.** *Blood* (ASH Annual Meeting Abstracts) 2009 114: Abstract 849.

American Society of Gene Therapy - San Diego, CA (May 5-7, 2009)

Denise E. Sabatino, Ekaterina Altynova, Amy M. Lange, Shangzhen Zhou, Aaron Dillow, Timothy C. Nichols, Valder R. Arruda, Haig H. Kazazian, Jr. (May, 2009). *Therapeutic Levels of FVIII Are Achieved with Both a Two- Chain and a Single Chain AAV-Mediated Delivery Approach but Reveal Differences in Immune Response to FVIII in Hemophilia A Dogs.* Poster session presented at the American Society of Gene Therapy, **San Diego, CA.**

38th Annual Philadelphia Workshop on Hemostasis, Thrombosis and Atherosclerosis – Philadelphia, PA (February, 2009)

Denise E. Sabatino, Ph.D.¹, Ekaterina Altynova, B.S.¹, Amy Lange, B.S.¹, Shangzhen Zhou, M.D.², Timothy C. Nichols, M.D.³, Valder Arruda, M.D., Ph.D.², Haig H. Kazazian, Jr., M.D.¹ (February, 2009). *Therapeutic Levels of Canine FVIII Expression After AAV8-Mediated Delivery of a Single Chain FVIII in Hemophilia A Dogs.* Poster session presented at the 38th Annual Philadelphia Workshop on Hemostasis, Thrombosis and Atherosclerosis. **Philadelphia, PA.**

¹University of Pennsylvania School of Medicine, Dept of Genetics; ² The Children's Hospital of Philadelphia;

³University of North Carolina, Chapel Hill, NC

REFERENCES

John B. Jenkins, PhD, professor of genetics at Swarthmore College

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Paul Rablen, PhD, professor of organic chemistry at Swarthmore College

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Aurora Camacho de Schmidt, PhD, Associate Professor of Spanish at Swarthmore College

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Denise Sabatino, PhD, assistant professor at University of Pennsylvania School of Medicine

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Haig Kazazian Jr. M.D, principal investigator at University of Pennsylvania School of Medicine

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