

CURRICULUM VITAE

Name: KOBOZIEV, Iurii (Yuri)

Citizenship: Citizen of Ukraine
Permanent resident of the United States

Marital Status: Married (Nadiia)
One child (Olga)

Job Address: Department of Nutritional Sciences
Texas Tech University
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Academic Degrees:

Ph.D. 2011 Louisiana State University Health Sciences Center in Shreveport, Shreveport, Louisiana (**Molecular & Cellular Physiology**).

B.S. 1995 Taras Shevchenko National University of Kyiv, Kyiv, Ukraine (**General & Molecular Genetics**)

Professional Appointments:

2016-	Research Assistant Professor – Department of Nutritional Sciences, College of Human Sciences, TTU, Lubbock, TX
2012-16	Postdoctoral fellowship – Department of Immunology & - Molecular Microbiology, TTU Health Sciences Center, Lubbock, TX
2011-12	Postdoctoral fellowship – Department of Molecular & Cellular Physiology, LSU Health Sciences Center, Shreveport, LA
2006-2011	Graduate student – Department of Molecular & Cellular Physiology, LSU Health Sciences Center, Shreveport, LA
2000-06	Research scientist – R&D Department, JSC “DiaProph-Med”, Kiev, Ukraine
1999-2000	Assistant of research scientist – Department of Cell Regulation Mechanisms, Institute for Molecular Biology & Genetics (National Academy of Science of Ukraine), Kiev, Ukraine
1997-99	Engineer-microbiologist – JSC “Biotekhnolog”, Kiev, Ukraine

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| 1996-97 | Assistant of research scientist – Department of Genetics and Biotechnology, Institute for Agriecology & Biotechnology (Ukrainian Academy for Agrarian Science), Kiev, Ukraine. |
| 1995-96 | Junior research scientist – Institute for Reproductive Medicine (Ukrainian Academy of Science for National Progress), Kiev, Ukraine |
| 1995 | Laboratory technician – Laboratory of Cell Engineering, Institute for Animal Breeding & Genetics (Ukrainian Academy of Agrarian Science), Velyka Olexandrivka, Kiev Region, Ukraine |

Professional Society Memberships:

The Obesity Society

American Society for Nutrition

American Heart Association

Honors and Awards:

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| 2010 | Poster entitled <i>Neither Peyer's Patches, Mesenteric Lymph nodes, nor Spleen are Required for Induction of Chronic Colitis</i> was selected as a Poster of Distinction for the American Gastroenterological Association national meeting, 2010. |
| 2009 | LSU Outstanding Teacher Award for lectures (endocrine physiology) to the College of Allied Health Professions students. |
| 2005 | First prize at the Competition of Experimental Works for Young Scientists, Institute of Microbiology & Virology, National Academy of Science of Ukraine. Talk: <i>Generating of Recombinant Human Interferon-γ Synthesized by Escherichia coli.</i> |

Editorial Services:

<u>Editorial Board:</u>	Journal of Obesity and Nutritional Disorders
<u>Guest Reviewer:</u>	International Journal of Obesity
	Journal of Advanced Research
	Mediators of Inflammation
	Nutrition & Diabetes
	Nutrition & Metabolism

Funding history

	Inclusive Dates of Support	Annual Direct Costs, \$	Total Direct Costs, \$
Role of Intestinal Microbiota in Mediating Therapeutic Effects of Fish Oil in Dietary Obesity (Obesity Research Cluster, TTU). Role – PI. Funded.	10/01/16-08/31/17	7,000	7,000
Intestinal Microbiome and Protective Effects of Curcumin in Mouse Model of Osteoarthritis (“Come n’ Go’ Domestic Research Collaboration Grant, College of Human Sciences, TTU). Role – PI. Funded.	11/01/17-08/31/18	5,000	5,000
Effects of Oral Curcumin on Gut Microbiome and Outcomes in Knee Osteoarthritis. A Randomized Double-Blind Crossover Study (“Clinical Research Seed Grant, Clinical Research Institute, TTUHSC). Role – co-PI. Funded.	05/01/18-04/30/19	10,000	10,000
Investigating the Impact of a Lean Finely Textured Beef Diet on the Risk of Developing Cancer and Obesity (Beef Products, Inc.). Role – co-PI. Pending.	03/01/18-02/28/21	547,000	1,641,000

Oral presentations:

2018	<i>Bioactive Food Components, Intestinal Microbiome and High Fat Diet-Induced Obesity in Mice.</i> At: Nutrition 2018, American Society for Nutrition, June 11, 2018. Boston, MA. <i>Invited for presenting.</i>
2018	<i>Gut Microbiome, Nutrition and Inflammation.</i> Invited talk at TTU College of Agricultural Sciences & Natural Resources. March, 29, 2016. Lubbock, TX
2016	<i>Role of Intestinal Microbiota in Chronic Gut Inflammation.</i> Invited talk at TTU College of Human Sciences. March, 21, 2016, Lubbock, TX
2014	<i>Role of Intestinal Microbiota in the Induction of Chronic Gut Inflammation.</i> Invited talk at LSUHSC-S. November 19, 2014, Shreveport, LA
2011	<i>T-cell Trafficking in Chronic Gut Inflammation.</i> Invited talk at Texas A&M HSC Institute for Regenerative Medicine at Scott and White. March 2, 2011, Temple, TX
2011	<i>LFA-1 (CD11a/CD18) is Required for T-cell Homing to the Mesenteric Lymph Nodes and Gut but not for T-cell Activation</i>

During the Induction of Chronic Colitis. At: Immunology 2011, 98th Annual Meeting, the American Association of Immunologists, May 13-17, 2011, San Francisco, CA

Teaching:

2016	TTU Nutritional Sciences Doctoral Degree Plan Nutrition and Chronic Diseases Lecture title: <i>Obesity, Inflammation and Intestinal Microbiome</i>
2015	TTU Health Sciences Center, Lubbock Graduate School of Biomedical Sciences The Pathogenesis of Infectious Diseases Lecture title: <i>Dysbiosis in mouse models of chronic gut inflammation</i>
2008-11	LSU Health Sciences Center, Shreveport School of Allied Health Professions Human Physiology (Endocrine Physiology) Lecture titles: <i>Insulin, Glucagon, Somatostatin</i> <i>Diabetes Mellitus</i> <i>Calcium and Phosphate Metabolism</i>

Mentoring

Trained and supervised:

Cynthia Reinoso Webb, PhD student.	2013-16
Kevin Bass, MD/MS student.	2016
Spencer Kelly, MD/MS student.	2016
Alexandra Miranda, undergraduate.	2016 –
Robin Okpara, undergraduate.	2016 – present time

Co-mentored:

Amal Bouyanfif, PhD student.	2017 – present time
Shasika Jayarathne, PhD student.	2017 – present time
Alfred Kankam, undergraduate.	2016-2017

Dissertation Committee Member:

Amal Bouyanfif, PhD student.	2017 – present time
Shasika Jayarathne, PhD student.	2017

Patents:

1. Enzyme-linked immunosorbent assay for identification of antibodies to specific hepatitis C virus antigens (“dia-hcv-different”). Semynozhenko V.P., Hural’ A.L., Shevchouk O.A., Pylypenko V.H., Ivans’ka N.V. Troyans’kyi V.V., Gorlov Y.E., Tereshchenko M.E., Ganova L.O., Kasyanenko T.V., Hrabchenko N.E., Vudmas’ka M.E., Naydionov

- V.G., Orlovs'ka Y.V., **Koboziiev I.O.** Patent # 18813 in Ukrainian Patents Database. Published 11.15.2006. Bulletin #11.
2. Recombinant purified modified genetically engineered polypeptide which mimics principal immunodominant epitopes of human immunodeficiency virus gag core protein. Troyanovs'kyi B.M., Shevchouk O.A., Semynozhenko V.P. Pylypenko V.H., Ivans'ka N.V., Gorlov Y.E., **Koboziiev I.O.**, Trokhymchuk T.Y., Hrabchenko N.E. JSC "DiaProph-Med". Patent # 17186 in Ukrainian Patents Database. Published 09.15.2006. Bulletin #9.

Manuscripts:

1. **Koboziiev I.**, Ramalingam, L., Moustaid-Moussa N. Protective effects of curcumin on gut microbiome in mouse model of high fat diet-induced obesity. *In preparation.*
2. **Koboziiev I.***, Soto P., Ramalingam, L., Moustaid-Moussa N. Sex-specific effects of fish oil on dietary obesity and intestinal bacteria in mice. *In preparation.*
3. Webb C.*, Den Bakker H., **Koboziiev I.***, Jones-Hall Y., Ostanin D., Furr K., Grisham M. Bone marrow derived mesenchymal stem cell therapy in mouse model of chronic gut inflammation. *In preparation.*
4. Webb C., Den Bakker H., **Koboziiev I.**, Jones-Hall Y., Kottapalli K., Ostanin D., Furr K., Mu Q., Luo X., Grisham M. Differential susceptibility to T cell-induced colitis in mice: Role of intestinal microbiota. *Inflamm Bowel Dis.* 2018; 24(2), pp. 361-79.
5. Jayarathne, S., **Koboziiev, I.**, Park, O.-H., Oldewage-Theron W., Shen C.-L., Moustaid-Moussa, N. Anti-inflammatory and anti-obesity properties of bioactive food components: Effects on adipose tissue. *Prev Nutr Food Sci.* 2017. 22(4), pp.251-62.
6. Pahlavani, M., Ramalho T., **Koboziiev I.**, LeMieux M., Jayarathne S., Ramalingam L., Filgueiras R., Moustaid-Moussa N. Adipose tissue inflammation in insulin resistance: review of mechanisms mediating anti-inflammatory effects of omega-3 polyunsaturated fatty acids. *J Investig Med.* 2017. 65(7), pp.1021-27.
7. Webb C.*, **Koboziiev I.***, Furr K., Grisham M. Protective and pro-inflammatory roles of intestinal bacteria. *Pathophys.* 2016. 23(2), pp. 67-80.
8. **Koboziiev I.**, Jones-Hall Y., Valentine J., Webb C., Furr K., Grisham M. Use of humanized mice to study the pathogenesis of autoimmune and inflammatory diseases. *Inflamm Bowel Dis.* 2015. 21(7), pp. 1652-73.
9. **Koboziiev I.***, Reinoso Webb C.*, Furr K., Grisham M. Role of the enteric microbiota in intestinal homeostasis and inflammation. *Free Radic Biol Med.* 2014; 68C. pp.122-33.
10. **Koboziiev I.**, Karlsson F., Ostanin D., Gray L., Davidson M., Zhang S., Grisham M. Role of LFA-1 in the activation and trafficking of T-cells: implications in the induction of chronic colitis. *Inflamm Bowel Dis.* 2012; 18(12), pp. 2360-70.
11. **Koboziiev I.**, Karlsson F., Zhang S., Grisham M. Pharmacological intervention studies using mouse models of the inflammatory bowel diseases: translating preclinical data into new drug therapies. *Inflamm Bowel Dis.* 2011; 17(5), pp. 1229-45.
12. Takebayashi K.*, **Koboziiev I.***, Ostanin D., Gray L., Karlsson F., Robinson-Jackson S., Kosloski-Davisson M., Dooley A., Zhang S., Grisham M. Role of the gut-associated and secondary lymphoid tissue in the induction of chronic colitis. *Inflamm Bowel Dis.* 2011; 17(1). pp.268-278.
13. **Koboziiev I.**, Karlsson F., Grisham M. Gut-associated lymphoid tissue, T cell trafficking, and chronic intestinal inflammation. *Ann N Y Acad Sci.* 2010; 1207, Suppl 1, pp.E86-E93.

14. Ostanin D., Bao J., **Koboziiev I.**, Gray L., Robinson-Jackson S., Kosloski-Davidson M., Price V.H., Grisham M.T cell transfer model of chronic colitis: concepts, considerations, and tricks of the trade. *Am J Physiol Gastrointest Liver Physiol.* 2009; 296(2). pp.135-146.
15. **Koboziiev I.O.**, Pylypenko V.H. Recombinant LacZ gene N-terminal fragment expression in *Escherichia coli*. “*Mikrobiologichnyi Zhurnal*”, 2006, 68(3), pp.15-20. In Ukrainian.
16. **Koboziiev I.O.**, Sorochyns'ka U.B., Mel'nyk A.I., Pylypenko V.H., Spivak M.Y. Optimization of cultivation technology for recombinant *Escherichia Coli* strain KPR-42, overproducing human interferon- γ . “*Mikrobiologichnyi Zhurnal*”, 2006 68(1), pp.41-47. In Ukrainian
17. Ganova L.O., Rayevs'ka H.Y., Pylypenko V.H., Hrabchenko N.I., **Koboziiev I.O.**, Tereshchenko M.I., Kostenko O.G., Spivak M.Y., Alexeyeva H.B. Comparative aspect of ELIZA and RID serum diagnostics in cattle. “*Veterynarna Medytsyna Ukrayiny*”. pp unknown
18. **Koboziiev I.O.**, Glazko V.I. Biodiversity and Agriecobiosystems. *Visnyk Agrarnoyi Nauky*, 1997., №4, pp.168-172. In Russian.

* both authors contributed equally to preparation of the manuscript

Book chapters:

Karlsson F*, **Koboziiev I***, Grisham MB. Preclinical Studies Using Mouse Models of the Inflammatory Bowel Diseases: Concepts and Considerations. D.C. Baumgart, editor, Springer Publishing, 2012. pp. 195-211.

* both authors contributed equally to preparation of the manuscript

Abstracts:

1. Koboziiev I., Soto P., Stuart, B., George B., Ramalingam L., Moustaid-Moussa N. Sex-Specific Effects of Fish Oil on Dietary Obesity and Intestinal Bacteria in Mice. *Nutrition* 2018, American Society for Nutrition, June 9-12, 2018, Boston, MA. *Accepted*.
2. Ramalingam, L., Menikdiwela, K., Allen L., Scoggin S., **Koboziiev I.**, Moustaid-Moussa M. Effects of Fish-Oil Supplementation During Pregnancy and Post-Weaning on Offspring Metabolic Health. ASPET Annual Meeting at Experimental Biology 2017, April 22-26, 2017, Chicago, IL.
3. Shen C-L., Kottapalli R., Tomison, M., **Koboziiev, I.**, Reinoso-Webb C., Ramalingam L., Moustaid-Moussa N., Kaur G., Dufour J., Chung E., Mo H., Grisham M. Dietary Delta-Tocotrienol Favors Abundance and Diversity of Beneficial Microbiomes in Obese Male Mice. ASPET Annual Meeting at Experimental Biology 2017, April 22-26, 2017, Chicago, IL.
4. Reinoso-Webb C.*, **Koboziiev I.***, Furr K., Phillips C., Rao Kottapalli K., Ostanin D.V., den Bakker H., Grisham M.B. Intestinal Bacterial Composition of Lymphopenic Mice and Susceptibility to CD45RB^{high} T Cell-Induced Colitis. *J. Immunology* 196 (1 Supplement) 196: 188.10, 2016
5. Reinoso C.*, **Koboziiev I.***, Furr K., Phillips C., Kottapalli K., Ostanin D.V., Jones-Hall Y., Grisham M.B. Colonization of Lymphopenic Mice with Dysbiotic Microflora Markedly Increases the Severity and Incidence of Chronic Colitis Following T cell

- transfer. Inflammatory Bowel Diseases, Volume 20, December 2014, Supplement 1, P-165.
6. **Koboziiev I.***, Takebayashi K.*, Ostanin D.V., Gray L., Karlsson F., Jackson S, Kosloski-Davidson M., Burrows-Dooley A., Zhang S., Grisham M.B. Neither the Peyer's Patches (PPs) , Mesenteric Lymph Nodes (MLNs) nor the Spleen are Required for Induction of Chronic Colitis in Mice. *J. Immunology* 186: 166.16, 2011.
 7. **Koboziiev I.**, Ostanin D.V., Gray L., Jackson S, Kosloski-Davidson M., Grisham M.B. LFA-1 (CD11a/CD18) is Required for T-cell Homing to the Mesenteric Lymph Nodes (MLNs) and Gut but not for T-Cell Activation During the Induction of Chronic Colitis. *J. Immunology* 186: 112.19, 2011.
 8. Takebayashi K.*, **Koboziiev I.***, Gray L., Karlsson F., Ostanin D.V., Grisham M.B. Neither Peyer's Patches, Mesenteric Lymph Nodes, nor Spleen are Required for Induction of Chronic Colitis. *Gastroenterology*, Volume 138, Issue 5, Page S-739, May 2010.
 9. **Koboziiev I.**, Kosloski-Davidson M., Robinson-Jackson S., Gray L., Murthy K., Grisham M. LFA-1 is Required for T-cell Homing to the Colon but not for Enteric Antigen-induced Activation of T-Cells During the Induction of Chronic Colitis. *Gastroenterology*, Volume 138, Issue 5, Page S-271, May 2010.
 10. Ostanin D.V., Karlsson F., Zhang S., **Koboziiev I.**, Gray L., Grisham M.B. CD49d ($\alpha 4$ integrin) is Required for T-Cell Homing to the Colon and Induction of Chronic Gut Inflammation. *Gastroenterology*, Volume 138, Issue 5, Page S-262, May 2010.
 11. Ostanin D.V., Karlsson F., **Koboziiev I.**, Zhang S., Gray L., Grisham M.B. Both L-Selectin and $\beta 7$ are Required for the T-Cell-Dependent Induction and Suppression of Chronic Gut Inflammation. *Gastroenterology*, Volume 138, Issue 5, Pages S-14-S-15, May 2010.
 12. **Koboziiev I.**, Grisham M.B. Enteric Antigen-Induced Activation of CD4⁺ T-cells: a Model for Studying Effector and Regulatory T-Cell Function *in vitro*. The 5th Gulf Coast Physiologic Society Meeting, April 17-18, 2009, New Orleans, LA. Poster presented.
 13. **Koboziiev I.O.**, Olevyns'ka Z.M., Spivak M.Y. Obtaining of Human Recombinant Interferon- γ Synthesized in Escherichia coli. Thes. rep. of the International Conference "Bioresources and Viruses", Kyiv, 27-30.09.04. p.150.
 14. **Koboziiev I.O.**, Mel'nyk A.I., Hrabchenko N.I., Tereshchenko M.I., Lishchenko L.P., Rayevs'ka H.Y., Pylypenko V.H. Obtaining of Recombinant Analogue of HIV Core Antigen Gag Protein, Which Increases Specificity of ELISA Test Kits for HIV Infection Diagnostics. Thes. rep. Inaugural Ukrainian Congress for Cell Biology, 25-28 apr., 2004, L'viv, p.92. In Ukrainian.
 15. **Koboziiev I.O.**, Hrabchenko N.I., Ganova L.O., Pylypenko V.H. Expression of HIV-1 Env Protein in Escherichia coli. Thes. rep. 8-th Ukrainian Biochemical Congress, Chernivtsi. In: "Ukrainsky Biokhimichniy Zhurnal", 2002, special issue "Materials of 8-th Ukrainian Biochemical Congress, 1-3 oct., 2002, Chernivtsi, addition 46, p.185.
 16. **Koboziiev I.O.** Optimization of Expression of LacZ gene N-terminal fragment. Thes. rep. Conference for young scientists "Biochemistry and Biotechnology Actual Problems", Kyiv. In "Ukrainsky Biokhimichniy Zhurnal", 2002., №1, pp.140-141. In Ukrainian.
 17. **Koboziiev I.O.** Constitutive Expression of LacZ Gene N-terminal Fragment in E.coli. Thes. rep. of the Conference for students, PhD students and young scientists on molecular biology and genetics dedicated to the establishment of Ukrainian Society for molecular biology. Kyiv, 20-22.09.2001. p.102.
 18. Moysa L.M., Pylypenko V.H., Chylyakov V.O., **Koboziiev I.O.** Optimization of gp41 HIV-1 Recombinant Protein Biosynthesis in E.coli Cells by the Mathematical Modeling. Thes. rep. of 22-nd Congress of the Czechoslovak Society for Microbiology with international participation on the topic of Health and Microorganisms. Kosice, 05-09.09. 2001. p. 246-248.

19. **Koboziev I.O.**, Glazko V.I. Genetic Resources of Agrarian Animals. Thes. rep. International Conference "Plant and Animal Agribiotechnologies". Kyiv, 29-30.05.1997, pp.149-150. In Russian.
20. **Koboziev I.O.**, Oblap R.V., Marioutsa A.E., Glazko V.I. "Genetic portrait" of the Holstein and Anglere Cattle Imported to Ukraine. Thes. rep. International Conference "Plant and Animal Agribiotechnologies". Kyiv, 29-30.05.1997, pp.63-64. In Russian.

* both authors contributed equally to preparation of the abstract

References:

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