Anna C. Belkina, MD, PhD
Personal statement

I am running for the Basic Research Councilor position because cytometry is central to my work as an immunologist, and I want to keep shaping how this Society supports the people who practice it. As both a basic researcher running an academic lab and a core facility director, I see our field from both sides — the science and the infrastructure that makes it possible. Having previously served on Council (2020–2024), I understand the level of commitment this role requires and am ready to serve in a new term.

My priorities align closely with ISAC's Strategic Plan goals, and as a Council member, my attention would focus on:

- Lowering the threshold of access to cutting edge methodologies, specifically computational cytometry practices. Mastering data analysis beyond just data acquisition in cutting-edge cytometry studies needs to become a major focus of cytometry training. This effort can be a shared task for industry leaders, academic researchers, and educators, and it directly supports ISAC's goal of offering the highest quality educational programming in the field. As the co-chair of the ISAC Data Analysis Education Subcommittee, I've been presenting cytometry data analysis tutorials at CYTO meetings and actively contributing to the CytoBytes YouTube channel content.
- Supporting and promoting high quality data reporting and data reproducibility. For many years, ISAC has consistently pushed for higher standards in peer review and publication practices. We aim to partner with journals and publishers to promote and enforce transparent methodology reporting and data accessibility. In my own work, including service on the Editorial Board of Cytometry Part A, I strongly value efforts that improve reporting standards and strengthen the quality of published cytometry research.
- Fostering communication between diverse groups that comprise our community, specifically academic researchers, SRL staff, and industry professionals. Bridging gaps and promoting interaction among these areas of expertise requires joint actions from the society leadership and members and would make the whole field stronger.
- Hearing the community. I am committed to making sure that our members at all stages of their careers are well informed, heard, and feel represented. Remote solutions such as virtual roundtables and online forums should be encouraged, promoted, and curated by the Society. Strengthening these channels is key to how ISAC communicates with and remains accountable to its membership. Beyond formal ISAC channels, I maintain an active presence in online cytometry communities, including the Cytometry Discord server — a space where over 1,400 practitioners across career stages exchange practical knowledge daily. Staying connected to these grassroots conversations helps me understand what our community needs and ensures that the voices shaping everyday cytometry practice are represented in Society decisions.

An MD, PhD scientist with extensive experience in immunology and bioinformatics, I currently serve as Assistant Professor of Pathology and Laboratory Medicine at Boston University Chobanian & Avedisian School of Medicine and Director of the Boston University Flow Cytometry Core Facility. My research, funded through NIH and private foundation grants, spans cellular immunity across diverse disease contexts and reflects deep expertise in advanced cytometry, study design, and data analysis methods. As an immunologist, I have over 15 years of experience investigating immune changes associated with chronic infectious and autoimmune diseases, including HIV, systemic sclerosis, obesity, type 2 diabetes, and periodontal disease.

My most recent research focuses on the intersection of immunology and computational biology and the development of computational techniques to assess high-parameter single-cell cytometry data. My contributions to the cytometry field include novel method development, educational outreach, and the

development of facility operation guidelines. As a representative sample of my peer-reviewed publications relevant for the Basic Research Councilor position, please see:

1. **Belkina AC**, Ciccolella CO, Anno R, Halpert R, Spidlen J, Snyder-Cappione JE. **Automated optimized parameters for T-distributed stochastic neighbor embedding improve visualization and analysis of large datasets.** Nat Commun. 2019;10(1):5415.
2. Pihl RMF, Smith-Mahoney EL, Olson A, et al., **Belkina AC***, Snyder-Cappione JE*. **Vδ1 Effector and Vδ2 γδ T-Cell Subsets Shift in Frequency and Are Linked to Plasma Inflammatory Markers During Antiretroviral Therapy-Suppressed HIV Infection.** J Infect Dis. 2024;229(5):1317–1327.
3. Vanuytsel K, Yeung AK, Dowrey TW, Murphy GJ, **Belkina AC**. **Comprehensive phenotyping of hematopoietic stem and progenitor cells in the human fetal liver.** Cytometry A. 2022;101(11):903–908.
4. Shenoy AT, Lyon De Ana C, Arafa EI, et al., **Belkina AC**, Mizgerd JP. **Antigen presentation by lung epithelial cells directs CD4$^+$ TRM cell function and regulates barrier immunity.** Nat Commun. 2021;12(1):5834.
5. Wallace PK, Jellison ER, Thornton S, Kluepfel K, et al. (including **Belkina AC**) **Cyt-Geist: Current and Future Challenges in Cytometry: Reports of the CYTO 2025 Conference Workshops.** Cytometry A. 2026;109(1):5–41.

Since 2014, I have been deeply involved in the International Society for the Advancement of Cytometry (ISAC) community, and I was recognized as an Emerging Shared Research Laboratory Leader in 2015 and elected as a Councilor for 2020–2024. I have attended CYTO meetings, presented oral and poster presentations every year since 2015, and delivered multiple ISAC-invited tutorials. Each year, I commit time to co-chairing CYTO parallel sessions, reviewing abstracts, and judging poster award competitions. Currently, I serve as the co-chair of the ISAC Data Analysis Education Subcommittee and a member of the Flow Content Subcommittee, with intention to continue this work regardless of Elections outcome. I also serve as an ISAC-representing Cytometry Examination Committee member (2022-2028) and Co-Chair (2026-2027) at ASCP (American Society for Clinical Pathology Board of Certification).

I would be glad to have your support!

Curriculum Vitae
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March 28, 2026

Academic Training and Appointments:

6/2003 M.D.	Russian State Medical University, Moscow, Russia; Pediatrics
6/2007 M.S.	Rockefeller University, New York, NY; Molecular and Cellular Biology
9/2012 Ph.D.	Boston University School of Medicine, Boston, MA; Molecular Medicine
6/2018 -present	Assistant Professor, Department of Pathology and Laboratory Medicine, Chobanian & Avedisian School of Medicine, Boston University, Boston, MA

Additional Training:

9/2012-1/2013	Boston University School of Medicine, Boston, MA; Denis Lab; Nikolajczyk Lab

Non-Academic Appointments:

1/2013-11/2015	Research Specialist, Flow Cytometry Core Facility, Boston University School of Medicine, Boston, MA
11/2015-05/2018	Senior Research Specialist, Flow Cytometry Core Facility, Boston University School of Medicine, Boston, MA
5/2018-10/2020	Associate Director, Flow Cytometry Core Facility, Boston University School of Medicine, Boston, MA
10/2020-present	Director, Flow Cytometry Core Facility, Chobanian & Avedisian School of Medicine, Boston University, Boston, MA

Honors and Awards:

6/2003	Summa Cum Laude, Russian State Medical University, Moscow, Russia
9/2005	Women & Science Initiative Scholarship, New York, NY
9/2010	Ethan Sims Young Investigator Award (The Obesity Society) – finalist of the 2010 TOS Meeting
5/2011	Henry I. Russek Student Achievement Award First Prize
5/2015	ISAC (International Society for Advancement of Cytometry) Emerging SRL Leader Award 2015-2019
4/2018	ISAC Lecture Award, SoCal Meeting
5/2020	BU CTSI (Clinical and Translational Science Institute) Mini Sabbatical Award
6/2020	ISAC (International Society for Advancement of Cytometry) Council Member, 2020-2024

Teaching Experience and Responsibilities:

2010-2012	Medical Immunology (MS 144) BUSM (senior teaching assistant, instructor)
2013-2014	Analytical Methods in Environmental Health (SPH EH 725), BUSM SPH (instructor)
2017, 2020	Immunological Basis of Disease (MI715 A1), BUSM GMS (instructor)
2016-2020	PrISM: Medical Immunology (MS 141-143) BUSM (instructor)
2013-present	Seminars on flow cytometry panel design and optimization at BUSM
2013-present	Biological Core Technologies (MM730 A1), BUSM GMS core curriculum (instructor)
2020-present	Introduction to Pathology and Pathophysiology of Disease (PA600/PA700), BUSM GMS (instructor)
2021-present	Medical Immunology (PA510), BUSM GMS (instructor)
2022-present	Techniques in Biomedical Research (BI777) BUSM GMS (instructor)

Diversity, Equity, Inclusion, and Belonging Activities:

2022-present Flowomen (founding member, mentor): a networking group for flow cytometrists in Greater Boston area to support each other as strong women leaders and scientists
2022-present CYTO Women (Task Force member)
2013-present LGBTQIA+ Faculty Research Network, member

Major Mentoring Activities:

Mentee, degree(s)	Dates	Mentee Position Institution	Content or Product resulting from relationship	Current Position
Riley Pihl, MS	FEB-AUGUST 2017	M.S. program trainee at the Flow Cytometry Core Facility	Capstone MS project	PiBS Graduate student (started Fall 2020)
Riley Pihl, MS	SEPT 2017-AUGUST 2020	Staff member at the FCCF	Multiple conference presentations and peer review publications. First author publication in progress	PiBS PhD Graduate student (started Fall 2020) at BUSM
Allen Yen, MS	SPRING 2017	M.S. program trainee at the FCCF	MS program 8 week rotation at the FCCF	PhD Graduate student at Washington University School of Medicine
Minoo Rafati, MS	SPRING 2018	M.S. program trainee at the FCCF	MS program 8 week rotation at the FCCF	Scientist, AstraZeneca
Julie Mosaddeghi, MS	SPRING 2019	M.S. program trainee at the FCCF	MS program 8 week rotation at the FCCF	Medical student '2027, Philadelphia College of Osteopathic Medicine
Dr. Anukul Shenoy, PhD	MARCH 2019-MARCH 2023	Postdoctoral fellow at the Pulmonary Center, BUSM (co-mentoring with Dr. Mizgerd)	Ongoing collaboration and co-mentorship with Mizgerd lab. Multiple peer review publications and conference presentations. First author paper accepted at Nature Comm (I am a co-last author)	Assistant Professor, Microbiology & Immunology, University of Michigan Medical School
Dr. Richard Pickering, PhD	MARCH 2021-JUN 2023	Postdoctoral fellow, Department of Medicine, BUSM (co-mentoring with Dr. Lin)	A co-mentorship project with Dr. Nina Lin (DOM) lab. A methods paper is in preparation	Research Assistant Professor, Department of Medicine, BUSM
Jones, Albert, Richard/IV, PhD	JUNE 2018-OCT 2021	PhD student, Department of Medicine, BUSM	PhD Dissertation (I served as a member of his DAC)	Postdoctoral fellow at the Joslin Diabetes Center
Erik Matson, BS	JUNE 2021-MARCH 2025	PhD student, Department of Medicine, BUSM	Ongoing collaboration with Maglione lab. I was a member of Erik's DAC	Biotech industry position in Cambridge, MA
Erika Smith, BS	JUNE 2021-JUNE 2025	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Cappione lab. I was a member of Erika's DAC	Postdoctoral Fellow, VIM, BUSM
Riley Pihl, MS	DEC 2021-MAY 2025	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Dr. Traber's lab. I was the Chair of Riley's DAC	Biotech industry position in Cambridge, MA
Darrien Viitala, MS	JUNE-AUGUST 2023	M.S. program trainee at the FCCF	Capstone MS project	Biotech industry position in Cambridge, MA

Mentee, degree(s)	Dates	Mentee Position Institution	Content or Product resulting from relationship	Current Position
Victoria Volfson, MS	SEPT 2023-SEPT 2025	PhD student, Department of Microbiology, BUSM	I was a member of Victoria's DAC and stepped in as her Advisor when her mentor relocated to another state. I served as her Advisor until she defended her PhD and graduated.	Pharma/clinical trial design industry position in Cambridge, MA
Elise Armstrong, BS	SEPT 2023-PRESENT	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Dr. Mizgerd's lab. I am a member of Elise's DAC	PhD student, Department of Microbiology, BUSM
Michael Vannini, BS	SEPT 2024-PRESENT	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Dr. Mizgerd's lab. I am a member of Elise's DAC	MD/PhD student, Department of Microbiology, BUSM
Brittny Garcia, BS	SEPT 2025-PRESENT	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Dr. Mizgerd's lab. I am a member of Brittny's DAC	MD/PhD student, Department of Microbiology, BUSM
Lucien Garo, BS	SEPT 2024-PRESENT	PhD student, Department of Microbiology, BUSM	Ongoing collaboration with Dr. Bosmann's lab. I am a member of Lucien's DAC	PhD student, Department of Microbiology, BUSM
Manika Kaur, BS	JAN-AUGUST 2025	M.S. program trainee at the FCCF	Capstone MS project	MS student, Department of Pathology, BUSM

Major Administrative Responsibilities:

2013-present Flow Cytometry Core Facility, BUSM, Boston, MA

Other Professional Activities:

Professional Societies: Memberships, Offices, and Committee Assignments:

2012-present Member, American Association of Immunologists
2014-present Member, International Society for Advancement of Cytometry (ISAC)
2015-2016 Member, Society for Immunotherapy of Cancer
2015-2020 ISAC Membership Committee, ISAC E-Learning Committee, ISAC CYTO-U Task Force
2018-present New England Cytometry, Board member
2020-present ISAC Flow Cytometry Content Task Force, ISAC Data Standards committee
2020-2024 ISAC (International Society for Advancement of Cytometry) Council Member, 2020-2024 (elected)
2022-2028 ASCP (American Society for Clinical Pathology Board of Certification), Cytometry Examination Committee member (appointed, 6-year term)
2025-2026 ASCP Cytometry Examination Committee Vice-Chair
2024-present Cytometry Part A Journal (Wiley), Associate Editor

Ad Hoc Reviewing 2017-present

Cytometry Part A
Nature Communications
Frontiers Immunology
Bioinformatics
Diabetes
eLife
Plos One
Journal of Immunology
Cancer Immunology Research

Editorial Responsibilities

2022-2024	Cytometry Part A, Guest Editor, Data Science
2022-present	Frontiers in Immunology, Associate Editor, section 'NK and Innate Lymphoid Cell Biology'
2024-present	Cytometry Part A Journal (Wiley), Associate Editor

University Committee Assignments:

2020-present	BUSM PiBS Admission Committee

Other support:

Current:

S10 1S10OD038346-01 (PI: Belkina) 4/15/2025-4/14/2026
Role: Primary Investigator
NIH Office of the Director
Title: Full Spectrum Cell Sorter with Imaging Enhancement for Boston University Flow Cytometry Core Facility

R01 AG065050-01A1 (PI: Snyder-Cappione) 8/15/2020-05/2025
Role: Co-investigator
NIH NIAID
Title: Gamma delta T cells promote inflammation in aviremic HIV infection and normal aging

Past:

U01 CA243004-01A1 (PI: Denis) 09/09/2020 - 08/31/2025
NIH/NCI
Role: Collaborator
Title: Multiscale analysis of metabolic inflammation as a driver of breast cancer

R01 DA042685-03 (PI: Lin) 08/15/2016 - 06/30/2023
NIH/NIDA
Role: Collaborator
Title: Impact of smoking and its cessation on systemic and airway immune activation

R01AG058538-01 (Multi-PI: Gummuluru, Sagar & Lin) 8/01/2018 – 04/30/2023
NIH:NIA
Role: Key Personnel
Title: Persistent HIV expression induced type I IFN responses and inflammaging

R01AG058538-01 (Multi-PI: Gummuluru, Sagar & Lin) 8/01/2018 – 04/30/2023
NIH:NIA
Role: Key Personnel
Title: Persistent HIV expression induced type I IFN responses and inflammaging

Agmt Dtd 12/22/2017 (PI: Mazzilli) 12/22/2017-12/21/2020
Janssen Research & Development LLC
Role: Collaborator 10% effort
Title: mPCGA: Characterization a Mouse Model of Lung Squamous Premalignancy & Pre-Clinical Intervention Studies

Invited lectures, conference oral presentations and workshops:

Invited Lectures and Workshops:

2017	Cytobank webinar series, Invited Speaker, February 2017
2017	CYTO conference, Research Showcase speaker, June 2017
2018	University of Washington Immunology Seminar series, Invited Speaker, July 2018
2018	CytoU Cytometry Part A Spotlight Series, Invited Speaker, August 2018
2019	ATS (American Thoracic Society) PG Course: High-Content Single-Cell Techniques to Study Lung in Health and Disease, Invited speaker, April 2019
2019	CCMA (Canadian Cytometry and Microscopy Association) Workshop Invited Speaker, June 2019
2019	Cytek Biosciences Annual User Meeting, Invited Plenary Speaker, June 2019
2019	ISAC Scientific Tutorial Speaker, June 2019
2020	Amsterdam Advanced Cytometry Course, Invited Speaker, October 2020
2020	Principles of Image and Flow Cytometry Graduate Course, University of Buffalo/Roswell Park Comprehensive Cancer Center, Invited Speaker, December 2020
2021	Brigham & Women Clinical Pathology Departmental Conference, Boston, USA. Invited Speaker, February 2021
2021	CytoU Current Research Webinar, Invited Speaker, August 2021
2022	University of California Irvine, Molecular Biology and Biochemistry Seminar series, Invited Speaker, February 2022
2022	Cytek Biosciences Annual User Meeting, Philadelphia, USA. Invited Plenary Speaker, June 2022
2022	Malaghan Institute of Medical Research Seminar Series, Wellington, New Zealand. Invited Speaker, November 2022
2022	Malaghan Institute of Medical Research, “High Dimensional data analysis of cytometry datasets” 2-day workshop, Invited speaker, November 2022
2022	2022 Australasian Cytometry Meeting, Melbourne, Australia, “High Dimensional Data Analysis Workshop”, Invited speaker, November 2022
2023	CYTO2023 conference, “Crimes against Cytometry” Invited Tutorial speaker, Montreal, Canada, May 2023
2023	European Association for the Study of the Liver (EASL), "Spectral flow cytometry in liver immunology", Invited seminar, June 2023
2024	CYTO2024 conference, “Why can’t they play nicely?” Invited Tutorial speaker, Edinburgh, United Kingdom, May 2024
2024	NWFSC (North West Flow Cytometry Society) Annual meeting, “Crimes against Cytometry: the Adventure of Bad Data” workshop, invited speaker, Seattle, March 2024
2024	Spectral Symposium, “Crimes against Cytometry” workshop, invited speaker, Cambridge, United Kingdom, July 2024
2024	Spectral Symposium, “Some mixed feelings: when multiplex panels bring challenges along with breakthroughs”, invited lecturer, Cambridge, United Kingdom, July 2024
2025	CYTO2025 conference, “Before you click ‘Run’: what truly matters for successful high-dimensional data analysis?” Invited Tutorial speaker, Denver, CO, USA June 2025
2025	FOCIS (Federation of Clinical Immunology Societies) 2025. “Some mixed feelings: when novel fluorocrhomes bring challenges along with breakthroughs”. Flow Cytometry Course, invited speaker. Boston, MA June 2025
2026	Cytek Biosciences Annual User Meeting, Invited Plenary Speaker, February 2026

Conference Presentations:

Regional:

October 2016	**Belkina AC.** "Automated analysis of 16-color flow cytometry data maps rare immune cell populations and reveals Inhibitory Receptor signatures in systemic sclerosis patients". New England Cytometry Meeting, Invited Plenary Speaker
April 2018	**Belkina AC.** "Revealing disease phenotypes with computational analysis of high-dimensional flow cytometry". SoCal Flow Meeting (Southern California Flow Cytometry Association) Invited Plenary Speaker, ISAC lecturer
October 2018	**Belkina AC.** "Computational analysis of high-dimensional flow cytometry opens new horizons for immune exhaustion mechanisms". MetroFlow (Flow Cytometry Association located in New York, NY) Invited Plenary Speaker
February 2019	**Belkina AC.** "Revealing disease phenotypes with computational analysis of high-dimensional flow cytometry". FlowTex (Texas Flow Cytometry Association) Invited Plenary Speaker
September 2019	**Belkina AC.** "Visualizing high dimensional diversity of immune cells in health and disease with computational analysis tools". GLIIFCA (Great Lakes International Imaging and Flow Cytometry Association) Invited Plenary Speaker
March 2024	**Belkina AC.** "Are those clusters in the room with us right now? Overcoming obstacles on our way to explore novel immune subsets". FlowTex (Texas Flow Cytometry Association) Invited Plenary Speaker
April 2024	**Belkina AC.** "A Good Problem to Have: Innovating Through the Challenges of High-Parameter Flow Cytometry". SoCal Flow Meeting (Southern California Flow Cytometry Association) Invited Keynote Speaker
January 2026	**Belkina AC.** "You are what you make: mapping T cell functional diversity with high parameter cytometry". San Diego Flow Meeting Invited Keynote Speaker

National:

October 2010	**Belkina AC,** Wang F, Blanton WP, Liu H, Denis GV. (2010). Whole body Brd2 deficiency protects obese mice from insulin resistance by creating a low inflammatory environment. Obesity Society 28th Annual Scientific Meeting, San Diego, CA. Oral Presentation.
May 2012	**Belkina AC**, Snyder-Cappione J, Jagannathan-Bogdan M, Carr J, DeFuria J, Markham D, Allen J, Bouchard J, Nersesova Y, Watkins A, McDonnell M, Denis GV, Apovian C, Nikolajczyk BS. B cells as master regulators of a pro-inflammatory T cell balance in obesity and glucose intolerance. Presented at: IMMUNOLOGY 2012 AAI Meeting. Oral Presentation.
June 2012	Nikolajczyk BS, **Belkina AC**, Snyder-Cappione J, Jagannathan-Bogdan M, Carr J, DeFuria J, Markham D, Allen J, Bouchard J, Nersesova Y, Watkins A, McDonnell M, Denis GV, Apovian C. B Lymphocytes are Master Regulators of a Pro-inflammatory T Cell Balance in Obesity and Glucose Intolerance. American Diabetes Association 2012 Meeting. Oral presentation.
September 2019	**Belkina AC**. "Data dimensionality reduction". SBI2 (Society of Biomolecular Imaging and Informatics) Invited Workshop Speaker.
May 2023	**Belkina AC**. "Overcoming analysis paralysis: How to break into the high-dimensional cytometry data analysis space". ABRF (Association of Biomolecular Resource Facilities) Annual Meeting, Invited Workshop Speaker

International:

June 2015	**Belkina AC,** Fleury M, Vazques Mateo C, Raval F, Lafyatis R, Dooms R. Snyder-Cappione JE. Automated analysis of 16-color polychromatic flow cytometry data maps immune cell populations. CYTO 2015 International Society for Advancement of Cytometry (ISAC), Glasgow, UK
June 2017	**Belkina AC,** Ciccolella C, Snyder-Cappione JE "viSNE Fine-Tuning Enables Better Resolution of Cell Populations". CYTO 2017 International Society for Advancement of Cytometry (ISAC), Oral presentation
June 2018	**Belkina AC**, Starchenko A, Drake K, Proctor E, Pihl RMF, Olson A, Lauffenburger D, Lin N, Snyder-Cappione JE. "Inhibitory Receptor Signatures on Gamma Delta T Cells Predict ART-Suppressed HIV Infection, are Synergistically Altered by HIV and Aging, and Co- Vary with Inflammatory Plasma Analytes". CYTO 2018 International Society for Advancement of Cytometry (ISAC), Oral presentation
June 2019	Pihl RMF, Olson A, Lin N, Snyder-Cappione JE, **Belkina AC**. "Multivariate Analyses of High Parameter Spectral Flow Cytometry and Plasma Analyte Datasets Reveal Links Between Gamma Delta T Cell Subsets and Plasma Markers of Systemic Inflammation and/or Gut Permeability with ARTSuppressed HIV Infection and Healthy Aging". CYTO 2019 International Society for Advancement of Cytometry (ISAC), Oral presentation
June 2019	**Belkina AC**, Ciccolella C, Anno R, Halpert R, Spidlen J, Snyder-Cappione JE. "Ditch the Ball: Automated Optimal Parameters for T-Distributed Stochastic Neighbor Embedding Improve Visualization and Allow Analysis of Large Datasets". CYTO 2019 International Society for Advancement of Cytometry (ISAC), Oral presentation
June 2019	**Belkina AC,** "From chaos to chorus: revealing disease phenotypes with computational analysis of high-dimensional flow cytometry". Invited Plenary Speaker. Canadian Cytometry and Microscopy Association, Edmonton, Canada.
September 2021	**Belkina AC,** "How full spectrum cytometry becomes our new normal". German Society of Cytometry Annual Meeting, Invited Speaker
November 2022	**Belkina AC,** "Revealing diverse cellular phenotypes with computational analysis of high-dimensional flow cytometry data", Invited speaker, 2022 Australasian Cytometry Meeting, Melbourne, Australia
November 2022	**Belkina AC,** "Profiling engraftable human fetal liver-derived hematopoietic stem cells at single cell resolution", Invited speaker, 2022 Australasian Cytometry Meeting, Melbourne, Australia
June 2025	**Belkina AC,** "50-parameter CyTOF Intracellular Panel Reveals Distinct Functional T cells", CyTOF Summit 2025, Invited Speaker
June 2025	**Belkina AC et al,** "Novel functional diversity of human T cells is revealed through the unprecedented resolution of intracellular cytokines, transcription factors and phosphoproteins using mass cytometry (CyTOF)", CYTO 2025 International Society for Advancement of Cytometry (ISAC), Oral presentation

Bibliography:

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https://www.ncbi.nlm.nih.gov/myncbi/anna.belkina.1/bibliography/public/
https://www.researchgate.net/profile/Anna_Belkina

Original, Peer Reviewed Articles:

1. Wang F, Liu H, Blanton W, **Belkina A**, Lebrasseur N, Denis G 2010 Brd2 disruption in mice causes severe obesity without Type 2 diabetes. The Biochemical journal 425 (1) p. 71-83
2. Landesman-Bollag E, **Belkina A**, Hovey B, Connors E, Cox C, Seldin DC 2011 Developmental and growth defects in mice with combined deficiency of CK2 catalytic genes. Molecular and cellular biochemistry 356 (1-2) p. 227-31

3. Ehrlich DJ, McKenna BK, Evans Evans JG, **Belkina AC**, Denis DV, Sherr DH, Cheung MC 2011 Parallel imaging microfluidic cytometer. Methods in cell biology 102 p. 49-75
4. Banerjee C, Archin N, Michaels D, **Belkina AC**, Gerald DV, Bradner J, Sebastiani P, Margolis DM, Montano M 2012 BET bromodomain inhibition as a novel strategy for reactivation of HIV-1. Journal of Leukocyte Biology, 2012 Dec;92(6):1147-54.
5. DeFuria J*, **Belkina AC***, Jagannathan-Bogdan M, Snyder-Cappione J, Carr JD, Nersesova Y, Markham D, Strissel KJ, Watkins A, Allen J, Bouchard J, Toraldo G, Jasuja R, Obin MS, McDonnell ME, Apovian CM, Denis GV, Nikolajczyk BS. (2013). B cells regulate the pro-inflammatory T cell balance in obesity and metabolic disease. Proc. Natl. Acad. Sci. USA. 110: 5133–5138. (* co-first authorship)
6. **Belkina AC**, Nikolajczyk BS, Denis GV. BET protein function is required for inflammation: Brd2 genetic disruption and BET inhibitor JQ1 impair mouse macrophage inflammatory responses. Journal of Immunology. 190: 3670–3678.
7. Al-Sebaei MO, Daukss, **Belkina AC**, Kaker S, Wigner NA, Cusher D, Graves D, Einhorn T, Morgan E, Gerstenfeld LC. Fas Deficient (lpr) Mouse Model of Lupus Show Delayed Cartilage Resorption but High-Turnover Bone Loss during Fracture Healing. Journal of Immunology. 190: 3670–3678.
8. **Belkina AC**, Blanton WP, Nikolajczyk BS, Denis GV. The double bromodomain protein Brd2 promotes B cell expansion and mitogenesis. Journal of Leucocyte Biology, 2013 Dec 6. [Epub ahead of print]
9. Zhu M, **Belkina AC**, Defuria J, Carr JD, Van Dyke TE, Gyurko R, Nikolajczyk BS. B cells promote obesity-associated periodontitis and oral pathogen-associated inflammation. Journal of Leucocyte Biology, 2014 April 29. [Epub ahead of print]
10. Bragdon B, Burns R, Baker AH, **Belkina AC**, Morgan EF, Denis GV, Gerstenfeld LC, Schlezinger JJ. Intrinsic Sex-Linked Variations in Osteogenic and Adipogenic Differentiation Potential of Bone Marrow Multipotent Stromal Cells. Journal of Cell Physiology, 2014 June 24.
11. Ip B, Cilfone N, **Belkina AC**, Defuria J, Jagannathan-Bogdan M, Zhu M, Kuchibhatla R, McDonnell M, Xiao Q, Kepler TB, Apovian CM, Lauffenburger DA, Nikolajczyk BS. Th17 cytokines differentiate obesity from obesity-associated type 2 diabetes and promote TNFα production. Obesity, 2016 Jan;24(1):102-12. doi: 10.1002/oby.21243.
12. Deeney JT, **Belkina AC**, Shirihai OS, Corkey BE, Denis GV. BET Bromodomain Proteins Brd2, Brd3 and Brd4 Selectively Regulate Metabolic Pathways in the Pancreatic β-Cell. PLoS One. 2016 Mar 23;11(3):e0151329. doi: 10.1371/journal.pone.0151329
13. Kamata H, Yamamoto K, Wasserman GA, Zabinski MC, Yuen CK, Lung WY, Gower AC, **Belkina AC**, Ramirez MI, Deng JC, Quinton LJ, Jones MR, Mizgerd JP. Epithelial Cell-derived Secreted and Transmembrane 1a (Sectm1a) Signals to Activated Neutrophils During Pneumococcal Pneumonia. Am J Respir Cell Mol Biol. 2016 Apr 11.
14. **Belkina AC**, Snyder-Cappione JE. OMIP-037: 16-color panel to measure inhibitory receptor signatures from multiple human immune cell subsets. Cytometry A. 2016 Oct 5.
15. Lentucci C*, **Belkina AC***, Cederquist CT, Chan M, Johnson HE, Prasad S, Lopacinski A, Nikolajczyk BS, Monti S, Snyder-Cappione J, Tanasa B, Cardamone MD, Perissi V. Inhibition of Ubc13-mediated ubiquitination by GPS2 regulates multiple stages of B cell development. J Biol Chem., 2016 Dec 30. (* co-first authorship)
16. Kartha V, Alamoud K, Sadykov K, Laroche F, Feng H, Lee J, Pai S, Varelas X, Egloff AM, Snyder-Cappione J, **Belkina AC**, Bais M, Monti S, Kukuruzinska, M. Functional and genomic analyses reveal therapeutic potential of targeting β-catenin/CBP activity in head and neck cancer. Genome Med, 2018 Jul 20;10(1):54. doi: 10.1186/s13073-018-0569-7.
17. Woolf N, Pearson BE, Bondzie PA, Meyer RA, Lavaei M, **Belkina AC,** Chitalia V, Rahimi N. Targeting tumor multicellular aggregation through IGPR-1 inhibits colon cancer growth and improves chemotherapy. *Oncogenesis,* 2017; 6(9):e378. PMID: 28920928.
18. Fleury M; **Belkina AC**; Proctor E; Zammitti C; Simms R; Lauffenburger D; Snyder-Cappione J; Lafyatis R ; Dooms H. Increased expression and modulated regulatory activity of co-inhibitory receptors PD-1, TIGIT and TIM-3 in lymphocytes of systemic sclerosis patients *Arthritis Rheumatol.*

2018 Apr;70(4):566-577. doi: 10.1002/art.40399. Epub 2018 Mar 7. PubMed PMID: 29245183; PubMed Central PMCID: PMC5876093.

19. Akiyama H, Miller CM, Ettinger CR, **Belkina AC**, Snyder-Cappione JE, Gummuluru S. HIV-1 intron-containing RNA expression induces innate immune activation and T cell dysfunction. *Nat Commun. 2018 Aug 27;9(1):3450.* doi: 10.1038/s41467-018-05899-7. PubMed PMID: 30150664; PubMed Central PMCID: PMC6110775.

20. **Belkina AC**, Starchenko A, Drake K, Proctor E, Pihl RMF, Olson A, Lauffenburger D, Lin N, Snyder-Cappione JE. Multivariate Computational Analysis of Gamma Delta T cell Inhibitory Receptor Signatures Reveals the Divergence of Healthy and ART-Suppressed HIV+ Aging. *Front Immunol.* 2018;9:2783. doi: 10.3389/fimmu.2018.02783. eCollection 2018. PubMed PMID: 30568654; PubMed Central PMCID: PMC6290897.

21. Nicholas DA, Proctor EA, Agrawal M, **Belkina AC**, Van Nostrand SC, Panneerseelan-Bharath L, Jones AR 4th, Raval F, Ip BC, Zhu M, Cacicedo JM, Habib C, Sainz-Rueda N, Persky L, Sullivan PG, Corkey BE, Apovian CM, Kern PA, Lauffenburger DA, Nikolajczyk BS. Fatty Acid Metabolites Combine with Reduced β Oxidation to Activate Th17 Inflammation in Human Type 2 Diabetes. Cell Metab. 2019 Sep 3;30(3):447-461.e5. doi: 10.1016/j.cmet.2019.07.004. Epub 2019 Aug 1. PubMed PMID: 31378464.

22. **Belkina AC**, Ciccolella CO, Anno R, Halpert R, Spidlen J, Snyder-Cappione JE. Automated optimized parameters for T-distributed stochastic neighbor embedding improve visualization and analysis of large datasets. Nat Commun. 2019 Nov 28;10(1):5415. doi: 10.1038/s41467-019-13055-y. PubMed PMID: 31780669; PubMed Central PMCID: PMC6882880.

23. Andrieu GP, Shafran JS, Smith CL, **Belkina AC**, Casey AN, Jafari N, Denis GV. BET protein targeting suppresses the PD-1/PD-L1 pathway in triple-negative breast cancer and elicits anti-tumor immune response. Cancer Lett. 2019 Nov 28;465:45-58. doi: 10.1016/j.canlet.2019.08.013. Epub 2019 Aug 29. PubMed PMID: 31473251; PubMed Central PMCID: PMC6901183.

24. Guillon A, Arafa EI, Barker KA, **Belkina AC**, Martin IM, Shenoy AT, Wooten AK, Lyon De Ana C, Dai A, Labadorf A, Hernandez-Escalante J, Dooms H, Blasco H, Traber KE, Jones MR, Quinton LJ, Mizgerd JP. Pneumonia recovery reprograms the alveolar macrophage pool. JCI Insight. 2020 Jan 28;. doi: 10.1172/jci.insight.133042. [Epub ahead of print] PubMed PMID: 31990682.

25. **Belkina AC**, Azer M, Lee JJ, Elgaali HH, Pihl R, Cleveland M, Carr J, Kim S, Habib C, Hasturk H, Snyder-Cappione JE, Nikolajczyk BS. Single-Cell Analysis of the Periodontal Immune Niche in Type 2 Diabetes. J Dent Res. 2020 Mar 18;:22034520912188. doi: 10.1177/0022034520912188. [Epub ahead of print] PubMed PMID: 32186942.

26. Bharath LP, Agrawal M, McCambridge G, Nicholas DA, Hasturk H, Liu J, Jiang K, Liu R, Guo Z, Deeney J, Apovian CM, Snyder-Cappione J, Hawk GS, Fleeman RM, Pihl RMF, Thompson K, **Belkina AC**, Cui L, Proctor EA, Kern PA, Nikolajczyk BS. Metformin Enhances Autophagy and Normalizes Mitochondrial Function to Alleviate Aging-Associated Inflammation. Cell Metab. 2020 May 5;. doi: 10.1016/j.cmet.2020.04.015. [Epub ahead of print] PubMed PMID: 32402267; PubMed Central PMCID: PMC7217133.

27. Rabhi N, **Belkina AC**, Desevin K, Cortez BN, Farmer SR. Shifts of Immune Cell Populations Differ in Response to Different Effectors of Beige Remodeling of Adipose Tissue. iScience. 2020 Dec 18;23(12):101765. doi: 10.1016/j.isci.2020.101765. eCollection 2020 Dec 18. PubMed PMID: 33294778; PubMed Central PMCID: PMC7683338.

28. Engler AE, Ysasi AB, Pihl RMF, Villacorta-Martin C, Heston HM, Richardson HMK, Thapa BR, Moniz NR, **Belkina AC**, Mazzilli SA, Rock JR.Airway-Associated Macrophages in Homeostasis and

Repair. Cell Rep. 2020 Dec 29;33(13):108553. doi: 10.1016/j.celrep.2020.108553. PubMed PMID: 33378665; PubMed Central PMCID: PMC8026077.

29. Yuen RR, Steiner D, Pihl RMF, Chavez E, Olson A, Smith EL, Baird LA, Korkmaz F, Urick P, Sagar M, Berrigan JL, Gummuluru S, Corley RB, Quillen K, **Belkina AC**, Mostoslavsky G, Rifkin IR, Kataria Y, Cappione AJ 3rd, Gao W, Lin NH, Bhadelia N, Snyder-Cappione JE. Novel ELISA Protocol Links Pre-Existing SARS-CoV-2 Reactive Antibodies With Endemic Coronavirus Immunity and Age and Reveals Improved Serologic Identification of Acute COVID-19 via Multi-Parameter Detection. Front Immunol. 2021;12:614676. doi: 10.3389/fimmu.2021.614676. eCollection 2021. PubMed PMID: 33897682; PubMed Central PMCID: PMC8062931.

30. Barker KA, Etesami NS, Shenoy AT, Arafa EI, Lyon de Ana C, Smith NM, Martin IM, Goltry WN, Barron AM, Browning JL, Kathuria H, **Belkina AC**, Guillon A, Zhong X, Crossland NA, Jones MR, Quinton LJ, Mizgerd JP. Lung-resident memory B cells protect against bacterial pneumonia. J Clin Invest. 2021 Jun 1;131(11). doi: 10.1172/JCI141810. PubMed PMID: 34060477; PubMed Central PMCID: PMC8159694.

31. Shenoy A, Arafa E, Lyon De Ana C, Barker K, Korkmaz F, Ramanujan A, Etesami N, Martin I, Tilton T, Hinds A, Goltry W, Kathuria H, Jones J, Quinton L, **Belkina AC*,** Mizgerd J*. Epithelial MHC-II governs CD4+ TRM cells and barrier immunity. *Nature Communications*, 12, 5834

32. Vanuytsel K, Villacorta-Martin C, Lindstrom-Vautrin J, Wang Z, Garcia-Beltran WF, Vrbanac V, Matte TM, Dowrey TW, Kumar SS, Li M, Dries R, Campbell JD, **Belkina AC**, Balazs AB, Murphy JG. Multi-Modal Profiling of Human Fetal Liver-Derived Hematopoietic Stem Cells Reveals the Molecular Signature of Engraftment Potential. bioRxiv 2020.11.11.378620; doi: https://doi.org/10.1101/2020.11.11.378620 (Nat Communications, in press)

33. Rabhi N, **Belkina AC**, Desevin K, Cortez BN, Farmer SR. Single cell atlas of beige remodeling of white adipose tissue reveals a myeloid to lymphoid shift during cold exposure compared to beta 3 adrenergic stimulation. bioRxiv 2021, https://doi.org/10.1101/2020.05.30.125146

34. Herrera VLM, Walkey AJ, Nguyen MQ, Gromisch CM, Mosaddhegi JZ, Gromisch MS, Jundi B, Lukassen S, Carstensen S, Denis R, **Belkina AC**, Baron RM, Pinilla-Vera M, Muller M, Kimberly WT, Goldstein JN, Lehmann I, Shih AR, Eils R, Levy BD, Ruiz-Opazo N. Increased Neutrophil-Subset Associated With Severity/Mortality In ARDS And COVID19-ARDS Expresses The Dual Endothelin-1/VEGFsignal-Peptide Receptor (DEspR): An Actionable Therapeutic Target. Res Sq. 2021 Sep 13;. doi: 10.21203/rs.3.rs-846250/v1. PubMed PMID: 34545358; PubMed Central PMCID: PMC8452107.

35. Rabhi N, Desevin K, **Belkina AC**, Tilston-Lunel A, Varelas X, Layne MD, Farmer SR. Obesity-induced senescent macrophages activate a fibrotic transcriptional program in adipocyte progenitors. Life Sci Alliance. 2022 May;5(5). doi: 10.26508/lsa.202101286. Print 2022 May. PubMed PMID: 35181634; PubMed Central PMCID: PMC8860101.

36. Herrera VLM, Walkey AJ, Nguyen MQ, Gromisch CM, Mosaddhegi JZ, Gromisch MS, Jundi B, Lukassen S, Carstensen S, Denis R, **Belkina AC,** Baron RM, Pinilla-Vera M, Mueller M, Kimberly WT, Goldstein JN, Lehmann I, Shih AR, Eils R, Levy BD, Ruiz-Opazo N. A targetable 'rogue' neutrophil-subset, [CD11b+DEspR+] immunotype, is associated with severity and mortality in acute respiratory distress syndrome (ARDS) and COVID-19-ARDS. Sci Rep. 2022 Apr 4;12(1):5583. doi: 10.1038/s41598-022-09343-1. PubMed PMID: 35379853; PubMed Central PMCID: PMC8977568.

37. Arafa EI, Shenoy AT, Barker KA, Etesami NS, Martin IM, Lyon De Ana C, Na E, Odom CV, Goltry WN, Korkmaz FT, Wooten AK, **Belkina AC**, Guillon A, Forsberg EC, Jones MR, Quinton LJ, Mizgerd JP. Recruitment and training of alveolar macrophages after pneumococcal pneumonia. JCI Insight. 2022 Feb 8;. doi: 10.1172/jci.insight.150239. [Epub ahead of print] PubMed PMID: 35133985.

38. Vanuytsel K, Yeung AK, Dowrey TW, Murphy GJ, **Belkina AC.** Comprehensive phenotyping of hematopoietic stem and progenitor cells in the human fetal liver. Cytometry A. 2022 Nov;101(11):903-908. doi: 10.1002/cyto.a.24540. Epub 2022 Mar 7. Review. PubMed PMID: 35253987.

39. English J, Orofino J, Cederquist CT, Paul I, Li H, Auwerx J, Emili A, **Belkina A**, Cardamone D, Perissi V. GPS2-mediated regulation of the adipocyte secretome modulates adipose tissue remodeling at the onset of diet-induced obesity. Mol Metab. 2023 Jan 31;69:101682. doi: 10.1016/j.molmet.2023.101682. [Epub ahead of print] PubMed PMID: 36731652.

40. Karagiannis TT, Dowrey TW, Villacorta-Martin C, Montano M, Reed E, **Belkina AC**, Andersen SL, Perls TT, Monti S, Murphy GJ, Sebastiani P. Multi-modal profiling of peripheral blood cells across the human lifespan reveals distinct immune cell signatures of aging and longevity. EBioMedicine. 2023 Apr;90:104514. doi: 10.1016/j.ebiom.2023.104514. Epub 2023 Mar 31. PubMed PMID: 37005201; PubMed Central PMCID: PMC10114155.

41. Shenoy AT, Lyon De Ana C, Barker KA, Arafa EI, Martin IMC, Mizgerd JP, **Belkina AC**. Comprehensive phenotyping of murine lung resident lymphocytes after recovery from pneumococcal pneumonia. Cytometry A. 2022 Nov;101(11):892-902. doi: 10.1002/cyto.a.24522. PubMed PMID: 34854229; PubMed Central PMCID: PMC9160214.

42. Aihara F, Wang Y, **Belkina AC**, Fearns R, Mizgerd JP, Feng F, Kepler TB. Diversity of B Cell Populations and Ig Repertoire in Human Lungs. J Immunol. 2023 Aug 1;211(3):486-496. doi: 10.4049/jimmunol.2200340. PubMed PMID: 37314411; PubMed Central PMCID: PMC10352589.

43. Lyon De Ana C, Shenoy AT, Barker KA, Arafa EI, Etesami NS, Korkmaz FT, Soucy AM, Breen MP, Martin IMC, Tilton BR, Devarajan P, Crossland NA, Pihl RMF, Goltry WN, **Belkina AC**, Jones MR, Quinton LJ, Mizgerd JP. GL7 ligand expression defines a novel subset of CD4(+) T(RM) cells in lungs recovered from pneumococcus. Mucosal Immunol. 2023 Oct;16(5):699-710. doi: 10.1016/j.mucimm.2023.07.004. Epub 2023 Sep 14. PubMed PMID: 37604254; PubMed Central PMCID: PMC10591822.

44. **Belkina AC**, Roe CE, Tang VA, Back JB, Bispo C, Conway A, Chakraborty U, Daniels KT, de la Cruz G, Ferrer-Font L, Filby A, Gravano DM, Gregory MD, Hall C, Kukat C, Mozes A, Ordoñez-Rueda D, Orlowski-Oliver E, Pesce I, Porat Z, Poulton NJ, Reifel KM, Rieger AM, Sheridan RTC, Van Isterdael G, Walker RV. Guidelines for establishing a cytometry laboratory. Cytometry A. 2023 Nov 8;. doi: 10.1002/cyto.a.24807. [Epub ahead of print] PubMed PMID: 37941128.

45. Yeung AK, Villacorta-Martin C, Lindstrom-Vautrin J, **Belkina AC**, Vanuytsel K, Dowrey TW, Ysasi AB, Bawa P, Wang F, Vrbanac V, Mostoslavsky G, Balazs AB, Murphy GJ. De novo hematopoiesis from the fetal lung. Blood Adv. 2023 Nov 28;7(22):6898-6912. doi: 10.1182/bloodadvances.2022008347. PubMed PMID: 37729429; PubMed Central PMCID: PMC10685174.

46. Wang Y, Huang J, Ang TFA, Zhu Y, Tao Q, Mez J, Alosco M, Denis GV, **Belkina A**, Gurnani A, Ross M, Gong B, Han J, Lunetta KL, Stein TD, Au R, Farrer LA, Zhang X, Qiu WQ. The association between circulating CD34+CD133+ endothelial progenitor cells and reduced risk of Alzheimer's disease in the Framingham Heart Study. Explor Med. 2024;5(2):193-214. doi: 10.37349/emed.2024.00216. Epub 2024 Apr 12. PubMed PMID: 38854406; PubMed Central PMCID: PMC11160969.

47. Etesami NS, Barker KA, Shenoy AT, De Ana CL, Arafa EI, Grifno GN, Matschulat AM, Vannini ME, Pihl RMF, Breen MP, Soucy AM, Goltry WN, Ha CT, Betsuyaku H, Browning JL, Varelas X, Traber KE, Jones MR, Quinton LJ, Maglione PJ, Nia HT, **Belkina AC**, Mizgerd JP. B cells in the pneumococcus-infected lung are heterogeneous and require CD4(+) T cell help including CD40L to

become resident memory B cells. Front Immunol. 2024;15:1382638. doi: 10.3389/fimmu.2024.1382638. eCollection 2024. PubMed PMID: 38715601; PubMed Central PMCID: PMC11074383.

48. Pihl RMF, Smith-Mahoney EL, Olson A, Yuen RR, Asundi A, Lin N, **Belkina AC**, Snyder-Cappione JE. Vδ1 Effector and Vδ2 γδ T-Cell Subsets Shift in Frequency and Are Linked to Plasma Inflammatory Markers During Antiretroviral Therapy-Suppressed HIV Infection. J Infect Dis. 2024 May 15;229(5):1317-1327. doi: 10.1093/infdis/jiae091. PubMed PMID: 38390982; PubMed Central PMCID: PMC11095541.

49. Dowrey TW, Cranston SF, Skvir N, Lok Y, Gould B, Petrowitz B, Villar D, Shan J, James M, Dodge M, **Belkina AC,** Giadone RM, Milman S, Sebastiani P, Perls TT, Andersen SL, Murphy GJ. A longevity-specific bank of induced pluripotent stem cells from centenarians and their offspring.Aging Cell. 2025 Jan;24(1):e14351. doi: 10.1111/acel.14351. Epub 2024 Sep 25. PubMed PMID: 39319670; PubMed Central PMCID: PMC11709102.

50. Ravi VR, Korkmaz FT, De Ana CL, Lu L, Shao FZ, Odom CV, Barker KA, Ramanujan A, Niszczak EN, Goltry WN, Martin IMC, Ha CT, Quinton LJ, Jones MR, Fine A, Welch JD, Chen F, **Belkina AC**, Mizgerd JP, Shenoy AT. Lung CD4(+) resident memory T cells use airway secretory cells to stimulate and regulate onset of allergic airway neutrophilic disease. Cell Rep. 2025 Mar 25;44(3):115294. doi: 10.1016/j.celrep.2025.115294. Epub 2025 Feb 17. PubMed PMID: 39965565; PubMed Central PMCID: PMC1201121

51. Yabaji SM, Lata S, Tseng AE, Araveti PB, Lo M, Gavrish I, O'Connell AK, Gertje HP, **Belkina AC**, Thurman CE, Kiyokawa H, Kotton D, Tan S, Endsley JJ, Bishai WR, Crossland N, Kobzik L, Kramnik I. Dysplastic lung repair fosters a tuberculosis-promoting microenvironment through maladaptive macrophage polarization. PLoS Pathog. 2025 Oct;21(10):e1013563. doi: 10.1371/journal.ppat.1013563. eCollection 2025 Oct. PubMed PMID: 41052208; PubMed Central PMCID: PMC12510645.

52. Wallace PK, Jellison ER, Thornton S, Kluepfel K, Back J, Beadnell TC, Bebes A, Behrends J, Belkina AC, Black M, Bogdanoski G, Bollati-Fogolín M, Bonte S, Van der Borght K, Brinkman RR, Brundage K, Bushnell T, Chiu DT, Chow N, Ciccolella CO, Cochran M, Czechowska K, Dagla K, Daniel B, de la Cruz G, Van Duyse J, Font LF, Fornas Ò, Garcia-Garcia S, Gardner R, Van Gassen S, Gimenes D, Grenfell R, Grider-Hayes MJ, Grose R, Hall C, Hally KE, Hameetman M, Hogg K, Houston J, Irish JM, Isterdael GV, Jaimes M, Janetzki S, Kim C, Koladiya A, Lamote J, Lannigan J, Leconte J, Litwin V, Longhini A, Loof N, Lozano-Andrés E, Lundsten K, Mage P, Mair F, Martins CG, McCausland M, McGuire HM, Meskas J, Murphy W, Nolan J, Oliveira B, Ordoñez-Rueda D, Orlowski-Oliver E, Petersen CC, Poulton NJ, Putri G, Quadrini KJ, Ramasz B, Ruhrmund D, Singh VV, Small SJ, Smith NJ, Spidlen J, Stegen C, Tak T, Thompson S, Thomson M, Vocelle D, Walker RV, Walsh RE, Wang L, Wang YF, Weglarz M, Winker M, Wood JCS, Woolard S, Yeh NY, Yuecel R, Rajwa B. Cyt-Geist: Current and Future Challenges in Cytometry: Reports of the CYTO 2025 Conference Workshops. Cytometry A. 2026 Jan;109(1):5-41. doi: 10.1002/cytoa.70002. Epub 2025 Dec 30. PubMed PMID: 41472424.

Case Reports, Reviews, Chapters, and Editorials:

Editorials and Critical Reviews:

1. **Belkina AC**, Denis GV 2010 Obesity genes and insulin resistance. Current opinion in endocrinology, diabetes, and obesity 17 (5) p. 472-7
2. **Belkina AC**, Denis GV 2012 BET domain co-regulators in obesity, inflammation and cancer. Nature Reviews Cancer 12 (7): 465-477.
3. Andrieu G, **Belkina AC**, Denis GV. Clinical trials for BET inhibitors run ahead of the science. Drug Discov Today Technol. 2016 Mar;19:45-50.