

MIHAIL CLIMOV, MD

ACPS Aesthetic Surgery Fellow



@acps.fellowship @drclimov | 713.799.9999 | www.linkedin.com/mihailclimov
12727 Kimberley Lane, Suite 300, Houston, TX 77024
<https://www.mybeautifulbody.com/dr-mihail-climov-acps-fellow/>

FOREIGN LANGUAGES

Russian, Romanian

EDUCATION AND TRAINING

- July 2023-present *Aesthetic Plastic Surgery Fellowship, Aesthetic Center for Plastic Surgery, Houston, TX*
The Aesthetic Society Endorsed Fellowship (expected graduation June 2024)
- July 2017-June 2023 *Integrated Plastic Surgery Residency, West Virginia University, Morgantown, WV*
Integrated Plastic Surgery Residency Program
- October 2014-Jan 2016 *Plastic Surgery/Tissue Engineering Research Fellowship, Tissue Engineering, and Wound Healing Laboratory, Brigham Women's Hospital, Harvard Medical School*
Boston, MA
- November 2011-October 2014 *Surgery/Transplantation Biology Research Fellowship, Massachusetts General Hospital, Harvard Medical School*
Boston, MA
Recipient of NIH T32 grant
- January 2011-October 2011 *Neurobiology Research Fellowship, Neurovascular Regulation Laboratory, Massachusetts General Hospital, Harvard Medical School*
Boston, MA
- January 2010-December 2010 *Family Medicine Residency, Carol Davila University of Medicine, and Pharmacy*
Bucharest, Romania
- October 2003-September 2009 *Carol Davila Medical School, Carol Davila University of Medicine, and Pharmacy, Bucharest, Romania, Doctor of Medicine*

PAST WORK EXPERIENCE/PROFESSIONAL POSITIONS

January 2016-
June 2017 *Investigator/Instructor in Surgery, Plastic Surgery, Tissue Engineering and Wound Healing Laboratory, Brigham and Women's Hospital, Harvard Medical School*

Boston, MA

Recipient of several grants for skin tissue engineering from Harvard Stem Cell Institute and Brigham Women's Hospital

2018-present *Co-founder, Redact Bio Inc.*

Boston, MA

Tissue Engineering start-up focusing on skin tolerance

2017-2022 *Social Media Chair, West Virginia University Plastic Surgery Residency Program*

Morgantown, WV

HONORS AND AWARDS

2023 *Plastic Surgery Resident of the Year Award, WVU Department of Surgery, Division of Plastic Surgery, Morgantown, WV*

For outstanding patient care, scholarly achievements, communication, and professionalism

2020 *Plastic Surgery Resident of the Year Award, WVU Department of Surgery, Division of Plastic Surgery, Morgantown, WV*

For outstanding patient care, scholarly achievements, communication, and professionalism

2016 *Innovation Discovery Recognition, Partners Healthcare, Boston, MA,*

Commitment to Innovation

2013 *Young Innovator Award, Cutting Edge of Transplantation, American Society of Transplantation, Phoenix, AZ*

2009 *Special Prize, Congressis 2009, International Congress for Medical Students and Young Doctors, Iasi, Romania*

2008 *Special Prize, Medicalis 2008, International Congress for Medical Students and Young Doctors, Cluj, Romania*

2008 *First prize for oral presentation, MedEspera, International Medical Congress, Chisinau, Moldova*

PUBLICATIONS

1. Zamfirescu DG, Owen E, Lascar I, Molitor M, Zegrea I, Popescu M, Bishop GA, Lauer CA, Simionescu M, Climov M, Lanzetta M. Sentinel skin allograft-a reliable marker for monitoring of composite tissue transplant rejection - *Transplantation proceedings* 2009 Mar;41(2):503-8.
2. Climov M, Maciuceanu Zarnescu MB, Stefanescu A, Zamfirescu D, Lascar I. Learning curve in hemifacial transplantation in rats. - *Chirurgia (Bucur)*. 2013 Mar-Apr; 108(2):234-40.
3. Lee J, Radhakrishnan H, Wu W, Daneshmand A, Climov M, Ayata C, Boas DA, Quantitative imaging of cerebral blood flow velocity and intracellular motility using dynamic light scattering optical coherence tomography - *J Cereb Blood Flow Metab*. 2013 Jun;33(6):819-25
4. Srinivasan VJ, Mandeville ET, Can A, Blasi F, Climov M, Daneshmand A, Lee JH, Yu E, Radhakrishnan H, Lo EH, Sakadžić S, Eikermann-Haerter K, Ayata C. Multiparametric, Longitudinal Optical Coherence Tomography Imaging Reveals Acute Injury and Chronic Recovery in Experimental Ischemic Stroke, *PLoS One*. 2013; 8(8): e71478.
5. Eikermann-Haerter K, Arbel-Ornath M, Yalcin N, Yu ES, Kuchibhotla KV, Yuzawa I, Hudry E, Lattarulo CR, Thyssen D, Climov M, Keles F, Belcher AM, Sengul B, Negro A, Rosen I, Arreguin A, Charles AC, Ferrari MD, Van den Maagdenberg AM, Bacskai BJ, Ayata C. Abnormal synaptic Ca²⁺ and morphology provide a candidate mechanism for migraine – *Ann Neurol*. 2015 Aug;78(2):193-210
6. Srinivasan V, Yu E, Radhakrishnan H, Can A, Climov M, Leahy C, Ayata C, Eikermann-Haerter K. Micro-Heterogeneity of Flow in a Mouse Model of Chronic Cerebral Hypoperfusion Revealed by Longitudinal Doppler Optical Coherence Tomography and Angiography - *J Cereb Blood Flow Metab*. 2015 Oct;35(10):1552-60
7. Climov M, Medeiros E, Farkash EA, Qiao J, Rousseau CF, Dong S, Zawadzka A, Racki WJ, Al-Musa A, Sachs DH, Randolph M, Huang CA, Bollenbach T. Bioengineered self-assembled skin as an alternative to skin grafts - *Plast Reconstr Surg Glob Open*. 2016 June 10;4(6): e731
8. Climov M, Bayer L, Moscoso AV, Matsumine H, Orgill DP. The Role of Dermal Matrices in Treating Inflammatory and Diabetic Wounds - *Plast Reconstr Surg*. 2016 Sep;138(3 Suppl):148S-57S
9. Climov M, Matar AJ, Farkash EA, Medeiros E, Qiao J, Harrington E, Gusha A, Al-Musa A, Sachs DH, Randolph MA, Bollenbach TJ, Huang CA. Survival of Allogeneic Self-Assembled Cultured Skin. *Transplantation*. 2016 Oct;100(10):2071-8
10. Matsumine H, Numakura K, Tsunoda S, Wang H, Matsumine R, Climov M, Giatsidis G, Sukhatme VP, Orgill DP. Adipose-derived aldehyde-dehydrogenase-expressing cells promote dermal regenerative potential with collagen-glycosaminoglycan scaffold-Wound Repair Regen. 2017 Jan;25(1):109-119
11. Matsumine H, Numakura K, Climov M, Giatsidis G, Orgill D. Facial-nerve regeneration ability of a hybrid artificial nerve conduit containing uncultured adipose-derived stromal vascular fraction - *Microsurgery*. 2017 Oct;37(7):808-818
12. Climov M, Panayi AC, Borah G, Orgill DP. The life-cycles of skin replacement technologies. *PLoS ONE* 2020 March;15(3): e0229455

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13. Climov M, Thomay AA, Best Wound Practice (April 17, 2021) Closure of a Large Apex Shoulder Surgical Defect with Bilobed Fasciocutaneous Flap. Retrieved from <https://bestwoundpractice.com/closure-of-a-large-apex-shoulder-surgical-defect-with-bilobed-fasciocutaneous-flap>
 14. Noorbakhsh S, Climov M, Gelman J, Best Wound Practice (April 17, 2021) Forearm Avulsion Wound. Retrieved from <https://bestwoundpractice.com/forearm-avulsion-wound>
 15. Noorbakhsh S, Koenig ZA, Hewitt N, Climov M, Woodberry K (December 2021). Atypical Hyperplasia after Bilateral Breast Reduction- Single Center Experience at West Virginia University, accepted PRS GO
 16. Liu Y, Guo S, Wei S, Wang H, Liu Y, Moscoso AV, Ribkovskaia Z, Lazarova T, Riesinger S, Orgill DP and Climov M. (June 2022) A novel nitric oxide-releasing gel for diabetic wounds, Plastic Reconstructive and Regenerative Surgery. Pisa, Italy, 1, pp. 24–33. Doi: 10.57604/PRRS-004.
 17. Climov M, Gelman K, Brooke S, Best Wound Practice (February 24, 2023) Dog bite to lower eyelid. Retrieved from <https://bestwoundpractice.com/lower-lid-dog-bite-laceration-repair>
 18. Marku L, Climov M, Gelman J, Best Wound Practice (February 24, 2023) Elbow wound closed with two opposing rotational flaps (Ying-Yang). Retrieved from <https://bestwoundpractice.com/two-opposing-rotational-flaps-ying-yang-for-elbow-wound-closure>
 19. Henderson JT, Koenig ZA, Climov M, Gelman J. Demystifying Targeted Muscle Reinnervation: A Systematic Review of Nerve Transfers for the Lower Extremity. *Plast Reconstr Surg Glob Open*. 2023 Mar;11(3):e4894
 20. Henderson JT, Koenig ZA, Climov M, Gelman J. Targeted Muscle Reinnervation: A Systematic Review of Nerve Transfers for the Upper Extremity. *Ann Plast Surg*. 2023 May 1;90(5):462-47

ABSTRACTS, POSTER PRESENTATIONS, AND EXHIBITS PRESENTED AT PROFESSIONAL MEETINGS

1. Climov M, Garofil D, Nistor B, Vinersar B, Bacanu A, Toma D. (May 2008). Basic Surgical Skills Training for Medical Students – What can be improved? Oral Presentation presented at 2nd International Medical Congress for Students and Young Doctors "MedEspera," Chisinau, MDA.
 2. Vinersar B, Bacanu A, Climov M, Dumitrascuta A, Raducanu D, Vlad M. (May 2008). Basic Surgical Skills Training for medical students in our experience Oral Presentation presented at 9th International Congress for Medical Students and Young Doctors "Medicalis 2008", Cluj, ROU.
 3. Garofil D, Nistor B, Rosca A, Sgarbura O, Vinersar B, Bacanu A, Climov M, Blajut C, Raducanu D. (June 2008). Prospective Evaluation of Basic Surgical Skills Course for Medical Students Oral Presentation presented at 24th National Surgery Congress, Bucharest, ROU.
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4. Vinersar BA, Toma D, Climov M, Blajut C, Vlad M. (April 2009). Basic Surgical Skills Training For Medical Students - Two Years of Experience Oral Presentation presented at 6th International Congress for Medical Students and Young Doctors "Congressis 2009"; Iasi, ROU.
 5. Zamfirescu D, Lascar I, Climov M. (October 2009). Simultaneous hemiface and vascularized bone marrow transplantation in rats Oral Presentation presented at International Forum on Plastic Surgery; Budapest, HUN.
 6. Zamfirescu D, Lascar I, Climov M, Bularda A, Popoviciu C, Stefanescu A, Lupu A, Simionescu M, Lanzetta MM. (2010) Simultaneous hemiface and vascularized bone marrow transplantation in rats. In the British Journal of Surgery. Vol. 97(S4) Pp. S95-S95.
 7. Zamfirescu D, Lascar I, Zegrea I, Popescu M, Popoviciu C, Climov M, Lanzetta M, (April 2011) Vascularized bone marrow transplantation: an alternative to conventional cellular bone marrow transplantation, 10th Meeting of the International Hand and Composite Tissue Allotransplantation Society, Atlanta, GA,
 8. Climov M, Zamfirescu D, Stefanescu A, Maciuceanu-Zarnescu B, Lascar I. (2011). The learning curve in hemifacial transplantation in rats Oral Presentation presented at European Plastic Surgery Research Council; Hamburg, DEU.
 9. Zamfirescu D, Climov M, Bularda A, Zegrea I, Popescu M, Popoviciu C, Stefanescu A, Lupu A, Simionescu M, Lanzetta M, Lascar I. (2011). Vascularized bone marrow transplantation induces partial tolerance to hemiface—Oral Presentation presented at European Plastic Surgery Research Council; Hamburg, DEU.
 10. Climov, M. (June 2012). Immunology of skin substitute derived from allogeneic fibroblasts and keratinocytes in MGH-Miniature swine Oral Presentation presented at Massachusetts General Hospital Transplant Center Seminar, Boston, MA.
 11. Murphy GF, Duran-Struuck R, Farkash E, Climov M, Leonard D, Cetrulo C, Spitzer T, Sachs DH, Huang CA. (December 2012). Histological Assessment of Cutaneous Acute Graft-Versus-Host Disease in a Preclinical Swine Model of Hematopoietic Cell Transplantation and Vascularized Skin Flap Tolerance Poster presented at 54th American Society of Hematology Meeting, Atlanta, GA.
 12. Lee J, Wu W, Climov M, Ayata C, Boas DA, (April 2012) "Dynamic light scattering optical coherence tomography," presentation at the Annual Celebration of Science at Massachusetts General Hospital, Boston, USA.
 13. Climov M, Matar AJ, Medeiros E, Qiao J, Farkash EA, Harrington E, Gusha A, Sachs DH, Randolph M, Bollenbach T, Huang CA, (October 2013) A Novel Tissue-Engineered Construct for Wound Treatment and Skin Immunity Research, American Society of Plastic Surgery Meeting, San-Diego, CA, Plastic & Reconstructive Surgery. 132(4S-1): ii.
 14. Duran-Struuck R, Climov M, Gusha A, Harrington E, Matar AJ, Crepeau RL, Spitzer TR, Sachs DH, and Huang CA, (February 2013) Immune regulation of allogeneic antibody responses, Cutting Edge of Transplantation -American Society of Transplantation, Phoenix, AZ.
 15. Duran-Struuck R, Climov M, Gusha A, Harrington E, Matar AJ, Crepeau RL, Spitzer TR, Sachs DS, Huang CA, (2013) Immune Modulation of Antibody Responses Induced Through Allogeneic Cell Transplantation, Biology of Blood and Marrow Transplantation 19(2): S286-S287.
 16. Climov, M. (2013). A novel skin substitute for wound treatment and skin immunity research Oral Presentation presented at Massachusetts General Hospital Transplant Center Seminar, Boston, MA.
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17. Climov M, Medeiros E, Farkash EA, Qiao J, Rousseau CF, Dong S, Zawadzka A, Racki WJ, Al-Musa A, Sachs DH, Randolph M, Huang CA, Bollenbach T. (April 2014). Novel bioengineered skin substitute for wound treatment and skin immunity research, Poster presented at Massachusetts General Hospital Scientific Advisory Committee Meeting, Boston, MA.
 18. Climov M, McNamee L, Ledley F, Orgill DP (2015) The patterns of success in Skin Engineering Poster presented at Discover Brigham Poster Seminar, Boston, MA.
 19. Matsumine H, Numakura K, Climov M, Giatsidis G, Orgill DP. (2015). Facial nerve regeneration with uncultured subcutaneous adipose-derived stromal-vascular-fraction in rat model Poster presented at Discover Brigham Poster Seminar, Boston, MA.
 20. Patil A, Climov M, Matar A, Musa A, Harrington E, Sachs D, Duran-Struuck R, Huang C. (May 2015) B-Cell Tolerance to Donor Alloantigens. *Am J Transplant*. 2015;15 (suppl 3).
 21. Matsumine H, Numakura K, Climov M, Giatsidis G, Orgill DP. (January 2016). Facial nerve regeneration with uncultured subcutaneous adipose-derived stromal-vascular-fraction in rat model Poster presented at American Society of Reconstructive Microsurgery, Scottsdale, AZ
 22. Climov M, McNamee L, Ledley F, Orgill DP. (2016). The patterns of success in Skin Engineering Poster presented at Harvard Surgery Research Day, Boston, MA.
 23. Christian Schuetz, Mihail Climov, Aarti R. Patil, Zhaohui Wang, Alec Andrews Roy, Nalu Navarro-Alvarez, Abraham j Matar, David H Sachs, Raimon Duran-Struuck, Christene A Huang. (2018). Specific Immunomodulation of Alloantibody Responses, *Transplantation*, July 2018, Volume 102, Number 7S, S38-S38
 24. Climov M, Panayi AC, Borah G, Orgill DP. (2018). The evolutionary life-cycles in Skin Replacement Technologies, poster presentation March 2018, Van Liere, West Virginia University, Morgantown, WV
 25. Climov M, Panayi AC, Borah G, Orgill DP. (June 2018). The evolutionary life-cycles in Skin Replacement Technologies, Oral Presentation, Ohio Valley Society of Plastic Surgery, Cleveland, Ohio, June 2018
 26. Climov M, Panayi AC, Borah G, Orgill DP. (September 2018). The evolutionary life-cycles in Skin Replacement Technologies, oral Presentation on September 28, 2018, American Society of Plastic Surgery, The Meeting, Chicago, IL
 27. Climov M, Liu Y, Guo S, Wei S, Wang H, Liu Y, Moscoso AV, Ribkovskaia Z, Lazarova T, Riesinger S, Orgill DP. (March 2019). Poster presentation. A novel nitric oxide delivery system for diabetic wounds, Van Liere, Morgantown, WV
 28. Climov M, Liu Y, Guo S, Wei S, Wang H, Liu Y, Moscoso AV, Ribkovskaia Z, Lazarova T, Riesinger S, Orgill DP (May 2019). Poster presentation. A novel nitric oxide delivery system for diabetic wounds, Ohio Valley Society of Plastic Surgery, French Lick, IN
 29. McCulloch IL, Mullens CL, Climov M, Jrebi NY, Dumasius VG (May 2019) Successful Implementation of a "No Sitting" Protocol following V-Y Fasciocutaneous Flap Closure of Abdominoperineal Resections. Poster presentation, Ohio Valley Society of Plastic Surgery, French Lick, IN
 30. Climov M, Liu Y, Guo S, Wei S, Wang H, Liu Y, Moscoso AV, Ribkovskaia Z, Lazarova T, Riesinger S, Orgill DP (September 2019) A novel nitric oxide delivery system for diabetic wounds, oral Presentation. American Society of Plastic Surgery, The Meeting, San Diego, CA
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31. Aldabek K, McCulloch IL, Mullens CL, Climov M, Dumasius V, Jrebi N. (June 2020) Single Center Outcomes of Immediate Internal Pudendal Artery Perforator Flap for Reconstruction for Abdominoperineal Resection Defects, American Society of Colon and Rectal Surgeons (ASCRS), accepted as ePoster Presentation at Annual Scientific Meeting in Boston, MA, June 6 – 10, 2020, meeting canceled due to COVID 19
 32. Climov M, Aldabek K, McCulloch IL, Mullens CL, Jrebi N, Dumasius V. (October 2020) Single center outcomes of Abdominoperineal resection reconstruction with Internal Pudendal Artery Perforator flap, oral Presentation, virtual Plastic Surgery The Meeting 2020, American Society of Plastic Surgery
 33. Carruthers KH, Climov M, Henderson J, Quiroga L, Hardy K, Gelman J, Woodberry KM. (May 2021) Retention of Sequential Compression Devices Compliance- QI Project, Van Liere and QI fair May 7, 2021, West Virginia University, Morgantown, WV
 34. Anderson D, Crihălmeanu T, Climov M, Gelman J (June 2021) Management of Complex Injuries to the Upper Extremity Secondary to Wild Animal Attacks: A Case Report and Review of the Literature, oral Presentation, Ohio Valley Society of Plastic Surgeons Meeting, Louisville, KY
 35. Climov M, Noorbakhsh S, Koenig ZA, Hewitt N, Woodberry K (October 2021). Atypical Hyperplasia after Bilateral Breast Reduction- Single Center Experience at West Virginia University, Plastic Surgery The Meeting 2021, American Society of Plastic Surgery, Atlanta, GE
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REVIEWS, CHAPTERS, MONOGRAPHS, AND EDITORIALS:

Mihail Climov, Tripp Leavitt, Joseph Molnar, Dennis Orgill. Chapter 8 - Natural Biomaterials for Skin Tissue Engineering, Editor(s): Mohammad Z. Albanna, James H. Holmes IV, Skin Tissue Engineering and Regenerative Medicine, Academic Press, 2016, Pages 145-161

PROFESSIONAL EDUCATIONAL MATERIALS OR REPORTS IN PRINT OR OTHER MEDIA

Climov M, Basic Microsurgery Course for Students 14-16 December 2007 - Annals of Plastic Surgery and Reconstructive Microsurgery, Journal of the Romanian Association of Plastic Surgeons volume 1 from 2008- report, used locally (Romania)

INTERNATIONAL INVITED PRESENTATIONS AND COURSES

8/2015 "The Artificial Skin," Oral Presentation, Annual Meeting and Residents Summer School, Romanian Association of Plastic Surgeons, Murighiol, Romania

10/2020 "The Past, Current and Future of Skin Engineering," Invited lecture, International Summer School, Emergency and Critical Care Medicine, Burn & Trauma Care, Zhejiang University, Hangzhou, People's Republic of China

LOCAL INVITED PRESENTATIONS

2015 Grand Rounds Plastic Surgery, "Fake Skin," Department of Plastic Surgery, Harvard Medical School

2020 Grand Rounds Plastic Surgery, "The New Frontiers in Skin Bioengineering." Division of Plastic Surgery, West Virginia University

2/2021 Grand Rounds West Virginia University Eye Institute, Oculoplastic Division, "The Past, Current and Future of Skin Substitutes."

5/2021 Grand Rounds, West Virginia University, Department of Dermatology "The evolution of Skin Engineering."

11/2021 Grand Rounds, West Virginia University, Division of Plastic Surgery "Facelift, The History, and Current Techniques"

3/2023 Grand Rounds, West Virginia University, Division of Plastic Surgery "From Liposuction to High-definition Liposculpting"

5/2023 Grand Rounds, West Virginia University, Department of Surgery "The Past and Present of Skin Bioengineering"

EDITORIAL ACTIVITIES

2014-present, Reviewer, Case reports in Plastic Surgery and Hand Surgery, Informa Healthcare

2017-present, Reviewer, Plastic and Reconstructive Surgery Global Open, Wolters Kluwer

2018-present, Reviewer, Transplantation, Walters Kluwer Health, Lippincott

2020-present, Reviewer, Technology, World Scientific Publishing

2022-present, Educational Board Member, Plastic Reconstructive and Regenerative Journal
<https://www.prrsjournal.com/>

PROFESSIONAL SOCIETIES

2006-2009	Romanian Students Surgical Society (SSCR), Member, Treasurer, Vice-President
2012-2013	American Association of Immunologists, member
2013-2014	American Society of Transplantation, member
2016- present	The Society of Brigham Surgical Alumni, member
2017- 2023	American Society of Plastic Surgery, resident-member Subcommittee on Regenerative Medicine, committee member 2020-2023 Subcommittee on Coding and Payment Policy, committee member 2021-2022
2017- 2023	American Aesthetic Society, resident-member

ACTIVITIES AND INTERESTS

Innovation, traveling, outdoors, ballroom dancing, fishing