

CURRICULUM VITAE

Last Name	Mikelis
First Name	Constantinos - Marios
Date of birth	December 9 th 1979
Place of birth	Athens
Nationality	Greek
Work Mailing Address	1406 S. Coulter Str., Office 1103 Amarillo, TX, 79106, U.S.A.
Home Mailing Address	6316 Oakcrest Ln., Amarillo, TX, 79109, U.S.A.
Work Telephone Number	001-806-414-9242
Cell Telephone Number	001-301-908-3031
E-mail	constantinos.mikelis@ttuhsc.edu const.mikelis@gmail.com
Academic position	Assistant Professor, Department of Biomedical Sciences, School of Pharmacy, Texas Tech University, U.S.A.
Laboratory Webpage	www.mikelislab.com

Education and positions

1998-2002	BSc in Biology, Department of Biology, University of Patras, Greece. Grade: Honors II.I
2002-2004	Master's Degree in Molecular Pharmacology in the Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece.
2004-2009	PhD in the Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece.
2009	Training in Division of Vascular Oncology and Metastasis, German Cancer Research Center (dkfz), Heidelberg, Germany
2009-2014	Postdoctoral fellow in the Oral and Pharyngeal Cancer Branch (OPCB), National Institute of Dental and Craniofacial Research (NIDCR), NIH, USA
2014-present	Assistant Professor, Department of Biomedical Sciences, School of Pharmacy, Texas Tech University Health Sciences Center, USA
2015-present	Faculty Member, Graduate School of Biomedical Sciences, Texas Tech University Health Sciences Center, USA

Research experience

2001-2002	Research for the Dissertation Thesis at the Laboratory of Cell Biology at the Department of Biology of the University of Patras, Greece. Research project: "Angiogenic activity of HARP and Thymosin β 4 peptides".
2002-2004	Research for the MSc degree in the Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece. Research project: "Study of structure – activity relationship of HARP".
2004-2009	Research for the PhD thesis in the Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece. Research project: "Identification of receptors and function-domain study of the growth factor pleiotrophin on cell migration".
2009	Training in Division of Vascular Oncology and Metastasis, German Cancer Research Center (dkfz), Heidelberg, Germany
2009-2014	Visiting fellow in the Oral and Pharyngeal Cancer Branch (OPCB), National Institute of Dental and Craniofacial Research (NIDCR), NIH, USA

Teaching and mentoring experience

1. Department of Pharmacy (University of Patras, Greece):

Participation in the laboratory training (2002-2007) of under-graduate students of the Department of Pharmacy, School of Health Sciences, University of Patras, at the following courses:

- Biological approaches in Pharmacy
- Molecular Pharmacology

2. Oral and Pharyngeal Cancer Branch, NIDCR,NIH:

Mentoring of pre-graduate summer students:

- Hayden Saunders (2010-2011). Current position: Student, University of North Carolina (USA)
- Natalia Alonso (2011). Current position: PhD Candidate, University of Buenos Aires (Argentina)

3. Department of Biomedical Sciences, School of Pharmacy, Texas Tech University

Teaching activities:

PharmD Program:

- Facilitator in Case Studies of 2nd year PharmD students (2015-today).
- Clinical Research and Literature Evaluation (PHAR 1241), 2nd year PharmD students (2015-today).
- Principles of Disease (PHAR 1221), 1st year PharmD students (2016-today).

Graduate Program:

- Cancer Biology and Therapeutics Course (GPSC 5326), Graduate School of Biomedical Sciences (2014 - today).
- Experimental Design and Biostatistics (Teaching Team Leader) (GPSC 5230), Graduate School of Biomedical Sciences (2016 - today).
- Advanced Principles of Disease Graduate Course (GPSC 5356), Graduate School of Biomedical Sciences (2017 - today).
- Advanced Course in Vascular Biology (Teaching Team Leader), Graduate School of Biomedical Sciences (2018 - today).

Mentoring activities:

Supervisor of PhD Candidates

- Mr. Sanaullah Sajib (2015 - today)
- Mrs. Fatema Tuz-Zahra (2016 - today)
- Mr. Hanumantha Rao Madala (2016, graduate student rotation)
- Mr. Andrew Baez (2017, graduate student rotation)

Supervisor of MSc Candidates

- Mrs. Racheal Akwii (2018 - today)

Supervisor of ABRI Interns

1. Mr. Christopher Cobos, West Texas A&M University (2015)
2. Mr. Suyash Srivastava, UT Austin (2017)

Supervisor of PharmD students

1. Mr. Christian Trulio (2017)
2. Ms. Myla Bhakta (2017)

Chair of Oral Qualifying Committees

1. Mr. Faleh Alqahtani (Supervisor: Dr. Ulrich Bickel; 2016)
2. Mrs. Srinidhi Jayaraman (Supervisor: Dr. Vardan Karamyan; 2016)
3. Mr. Ahmed Alobaida (Supervisor: Dr. Fakhru Ahsan; 2017)
4. Mr. Ali Sifat (Supervisor: Dr. Thomas Abbruscato; 2017)

Member in Graduate Committees of PhD Candidates

1. Mr. Ismail Walbi (Supervisor: Dr. Xinli Liu)
2. Mr. Alali Amer (Supervisor: Dr. Xinli Liu)
3. Mr. Sushanta Sarkar (Supervisor: Dr. Ruiwen Zhang)
4. Mr. Ronak Patel (Supervisor: Dr. Abraham Al-Ahmad)
5. Mr. Hanumantha Rao Madala (Supervisor: Dr. Kalkunte Srivenugopal), graduated 3.2018
6. Mr. Mostofa A.M.G. (Supervisor: Dr. Kalkunte Srivenugopal), graduated 8.2017
7. Mrs. Laxmi Iyer (Supervisor: Dr. Thomas Thekkumkara)
8. Mrs. Nehal Gupta (Supervisor: Dr. Sanjay Srivastava)
9. Mrs. Efrosyni Holeva (University of Patras, Greece; Supervisor: Dr. Evangelia Papadimitriou)
10. Mrs. Jee Hyun Park (Supervisor: Dr. Ulrich Bickel), graduated 3.2017
11. Mr. Sreedhar Reddy Suthe (Supervisor: Dr. Minghai Wang)
12. Mr. Anwar Hossain (Supervisor: Dr. Nadezhda German)
13. Mr. Sharavan Ramachandran (Supervisor: Dr. Sanjay Srivastava)
14. Mr. Ahmed Morsy (Supervisor: Dr. Paul Trippier)
15. Mrs. Snehal Raut (Supervisor: Dr. Fakhru Ahsan)

16. Mrs. Daniela Rolph (Supervisor: Dr. Hiranmoy Das)
17. Mr. Carl (Joey) Greene (Supervisor: Dr. Hiranmoy Das)

Member in Graduate Committees of MSc Candidates

1. Mrs. Despoina Ntenekou (Supervisor: Dr. Evangelia Papadimitriou), graduated 6.2017
2. Mrs. Pinelopi Kastana (Supervisor: Dr. Evangelia Papadimitriou), graduated 9.2017

University Committees

- Graduate Program Committee (Member) (2015-2017)
- Student Admissions Committee (Member) (2017-today)
- Continuous Education Committee (Member) (2015-2016)
- Faculty Search Committee for the Department of Biomedical Sciences (Member) (2015-2016)
- Principles of Disease Curricular Renewal Ad-hoc Committee (Chair) (2016-today)
- Research Advisory Committee (Member) (2016-2017)

Honors and Awards

- Award and scholarship reward from *The Hellenic National Scholarships' Foundation* for student excellence (highest grades from University of Patras) (2003-2004).
- Award and scholarship reward from *The Hellenic Pharmaceutical Industry Association* (highest grades nationwide) (2004).
- PENED scholarship from the Research Committee of the University of Patras (2005-2008).
- Fellows Award for Research Excellence (FARE), sponsored by the NIH Scientific Directors, Office of Intramural Training and Education and FelCom (2013-2014).
- "Graduate Mentor of the Year" award for the School of Pharmacy, TTUHSC (2017).
- "Outstanding Teacher of the Year" award for the Graduate School of Biomedical Sciences, sponsored by the Student Senate (2017).
- "Outstanding Teacher of the Year" award for the Graduate School of Biomedical Sciences, sponsored by the Student Senate (2018).

Honors and Awards of the members of the Mikelis lab

- Sanallah Sajib:
 - 2017 AAPS BIOTEC Section Travel Award for the AAPS National Biotechnology Conference, May 1-3 2017, San Diego, California.
 - Best Podium Presentation Award during the 16th Annual Amarillo Research Days, June 15-16 2017, Amarillo, Texas.
 - 2017 Vasculata Scholarship Award for the 2017 Vasculata, July 24-27, Chicago, Illinois.
 - 2017 Mary Lou Clements-Mann Scholarship.
 - Best Oral Presentation in 2017 Graduate Student Seminars, Graduate Program in Pharmaceutical Sciences, September 1, 2017.
 - 2018 Phonathon Scholarship

- Selection for Podium Presentation by TTUHSC Graduate School of Biomedical Sciences at 2018 Student Research Week (SRW), March 20-25, Lubbock, Texas.
- 2018 Vasculata Scholarship Award for the 2018 Vasculata, July 23-26, Washington University, St. Louis, MO.
- Fatema Tuz Zahra:
 - 2017 Vasculata Scholarship Award for the 2017 Vasculata, July 24-27, Chicago, Illinois.
 - 2017 Mary Lou Clements-Mann Scholarship.
 - Selection for Podium Presentation at the 17th Amarillo Research Days, Amarillo, TX, June 13-14, 2018.
 - 2018 Vasculata Scholarship Award for the 2018 Vasculata, July 23-26, Washington University, St. Louis, MO.

Ad-hoc Reviewer

- Oral Diseases Journal 2014.1-today
- British Journal of Pharmacology 2014.12-today
- Thrombosis and Haemostasis 2015.1-today
- Biomedical Chromatography 2015.2-today
- Molecular Biology of the Cell 2016.1-today
- Oncotarget 2016.4-today
- Heliyon 2016.8-today
- BMC Pharmacology and Toxicology 2017.1.-today
- European Journal of Pharmacology 2017.3-today
- Vascular Cell 2017.8-today
- PLOS One 2017.10-today
- Toxicology Reports 2017.11-today
- European Journal of Medicinal Chemistry 2018.1-today
- International Journal of Oncology 2018.3-today
- Journal of Cellular and Molecular Medicine 2018.4-today

Editorial Activity

- Faculty of 1000- Cell Biology (Associated Faculty Member) (2011-2016)
<http://f1000.com/prime/thefaculty/member/1458674642528216>
- Editorial Board Member of “EC Dental Science” Journal (2015-today)
- Editorial Board Member of “Annals of Pharmacology and Pharmaceutics” Journal (2016-today)

Foreign languages

1. **Greek** (native)
2. **English:** First Certificate in English (University of Cambridge), Certificate of Advanced English (University of Cambridge).
3. **Italian:** Celi II (Universita di Perugia).

Publications

A. Articles in peer-Reviewed Journals

1. Papadimitriou, E., Polykratis, A., Hatziapostolou, M., Parthymou, A., Polytarchou, C., **Mikelis, C.** Heparin affin regulatory peptide: a new target for tumour therapy? *Curr Cancer Drug Targets*. 2004 4(6):471-82.
2. Kokolakis, G., **Mikelis, C.**, Papadimitriou, E., Courty, J., Karetsou, E. and Katsoris, P. Effect of Heparin Affin Regulatory Peptide on the Expression of Vascular Endothelial Growth Factor Receptors in Endothelial Cells. *In Vivo* 2006 20(5):629-635.
3. **Mikelis, C.**, Koutsoumpa, M. and Papadimitriou, E. Pleiotrophin as a possible new target for angiogenesis-related diseases and cancer. *Recent Patents on Anti-Cancer Drug Discovery*. 2007 2: 175-186.
4. Parthymou, A., Lampropoulou, E., **Mikelis, C.**, Drosou, G. and Papadimitriou, E. Heparin affin regulatory peptide/pleiotrophin negatively affects diverse biological activities in C6 glioma cells. *Eur J Cell Biol*. 2008 87(1):17-29.
5. **Mikelis, C.** and Papadimitriou, E. Heparin-binding protein pleiotrophin: An important player in the angiogenic process. *Connect Tissue Res*. 2008 49(3):149-152.
6. Polytarchou, C., Hatziapostolou, M., Poimenidi, E., **Mikelis, C.**, Papadopoulou, A., Parthymou, A. and Papadimitriou, E. Nitric oxide stimulates migration of human endothelial and prostate cancer cells through up-regulation of pleiotrophin expression and its receptor protein tyrosine phosphatase beta/zeta. *Int J Cancer* 2009 124(8):1785-1793.
7. Koutsoumpa, M., Hatziapostolou, M., **Mikelis, C.**, Koolwijk, P. and Papadimitriou, E. Aprotinin stimulates angiogenesis and human endothelial cell migration through the growth factor pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta. *Eur J Pharmacol* 2009 602(2-3):245-249.
8. **Mikelis, C.**, Sfaelou, E., Koutsoumpa, M., Kieffer, N. and Papadimitriou, E. Integrin $\alpha_v\beta_3$ is a pleiotrophin receptor required for pleiotrophin-induced endothelial cell migration through receptor protein tyrosine phosphatase β/ζ . *FASEB J* 2009 23(5):1459-1469.
9. Papadimitriou, E., **Mikelis, C.**, Lampropoulou, E., Koutsoumpa, M., Theochari, K., Tsirmoula, S., Theodoropoulou, C., Lamprou, M., Sfaelou, E., Vourtsis, D. and Mpountouris, P. The role of pleiotrophin in cancer. *Eur Cytokine Netw* 2009 20(4):180-190.
10. Kutschera, S., Weber, H., Weick, A., De Smet, F., Genove, G., Takemoto, M., Prahst, C., Riedel, M., **Mikelis, C.**, Baulande, S., Champseix, C., Kummerer, P., Coseiller, E.,

- Multon, M.C., Heroult, M., Bicknell, R., Carmeliet, P., Betsholtz, C. and Augustin, H.G. Differential endothelial transcriptomics identifies semaphoring 3G as a vascular class 3 semaphorin. *Arterioscler Thromb Vasc Biol.* 2011 31(1):151-9.
11. **Mikelis, C.**, Lamprou, M., Koutsioumpa M., Koutsioumpas A.G., Spyranti, Z., Zompra, A.A., Spiliopoulos, N., Vradis A.A., Katsoris, P., Spyroulias, G.A., Cordopatis P., Courty, J. and Papadimitriou E. A peptide corresponding to the C-terminal region of pleiotrophin inhibits PTN-induced angiogenesis in vivo and in vitro. *J Cell Biochem.* 2011 112(6):1532-43.
12. Patel, V., Marsh, C.A., Dorsam, R.T., **Mikelis, C.M.**, Masedunskas, A., Amornphimoltham, P., Nathan, C.A., Singh, B., Weigert, R., Molinolo, A.A. and Gutkind, J.S. Decreased lymphangiogenesis and lymph node metastasis by mTOR inhibition in head and neck cancer. *Cancer Res.* 2011 71(22):7103-12.
13. Koutsioumpa, M., Drosou, G., **Mikelis, C.**, Theochari, K., Vourtsis, D., Katsoris, P., Giannopoulou, E., Courty, J., Petrou, C., Magafa, V., Cordopatis, P. and Papadimitriou, E. Pleiotrophin expression and role in physiological angiogenesis in vivo: potential involvement of nucleolin. *Vasc Cell.* 2012 16;4:4.
14. Pan, W., Pham, V.N., Stratman, A.N., Castranova, D., Kamei, M., Kidd, K.R., Lo, B.D., Shaw, K.M., Torres-Vazquez, J., **Mikelis, C.M.**, Gutkind, J.S., Davis, G.E. and Weinstein, B.M. CDP-diacylglycerol synthetase-controlled phosphoinositide availability limits VEGFA signaling and vascular morphogenesis. *Blood.* 2012 120(2):489-98.
15. Koutsioumpa, M., Polytarchou, C., Courty, J., Zhang, Y., Kieffer, N., **Mikelis, C.**, Skandalis, S.S., Hellman, U., Iliopoulos, D. and Papadimitriou, E. Interplay between $\alpha\beta 3$ integrin and nucleolin regulates human endothelial and glioma cell migration. *J Biol Chem.* 2013 288(1):343-54.
16. Kaspiris, A., **Mikelis, C.**, Heroult, M., Khaldi, L., Grivas, T.B., Kouvaras, I., Dangas, S., Vasiliadis, E., Lioté, F., Courty, J. and Papadimitriou, E. Expression of the growth factor pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta in the serum, cartilage and subchondral bone of patients with osteoarthritis. *Joint Bone Spine.* 2013 80(4):407-13.
17. Chen, J.J., **Mikelis, C.**, Zhang, Y., Gutkind, J.S. and Zhang, B. TRAIL induces apoptosis in oral squamous carcinoma cells – an association with Ras regulated cell surface expression of death receptor 5. *Oncotarget.* 2013 4(2):206-17.
18. **Mikelis, C.M.**, Palmby, T. R., Simaan, M., Li, W., Szabo, R., Lyons, R., Martin, D., Yagi, H., Fukuhara, S., Chikumi, H., Galisteo, R., Mukoyama, Y., Bugge, T. H. and Gutkind, J.S. PDZ-RhoGEF and LARG are essential for embryo development, and provide a link

- between thrombin and LPA receptors and Rho activation. *J. Biol. Chem.* 2013 288(17):12232-43.
19. Lionakis, M., Swamydas, M., Fischer, B., Plantinga, T., Johnson, M., Jaeger, M., Green, N., Masedunskas, A., Weigert, R., **Mikelis, C.**, Wan, W., Lee, C-C.R., Lim, J., Rivollier, A., Yang, J., Laird, G., Wheeler, R., Alexander, B., Perfect, J., Gao, J., Kullberg, B-J., Netea, M., and Murphy, P. CX3CR1-dependent renal macrophage survival promotes candida control and host survival. *J.Clin. Invest.* 2013 123(12):5035-51.
20. Gan, C.P., Patel, V., **Mikelis, C.M.**, Zain, R.B., Molinolo, A.A., Abraham, M.T., Teo, S.H., Abdul Rahman, Z.A., Gutkind, J.S. and Cheong, S.C. Heterotrimeric G-protein alpha-12 (G α 12) subunit promotes oral cancer metastasis. *Oncotarget* 2014 5(20):9626-40.
21. Dillenburg-Pilla, P., Patel, V., **Mikelis, C.M.**, Zarate-Blades, C.R., Amornphimoltham, P., Wang, Z., Martin, D., Leelahavanichkul, K., Doci, C.L., Dorsam, R., Masedunskas, A., Weigert, R., Molinolo, A.A. and Gutkind, J.S. SDF-1/CXCL12 induces directional cell migration and spontaneous metastasis via a CXCR4/G α i/mTORC1 axis. *FASEB J.* 2015 29(3):1056-68.
22. **Mikelis, C.M.**, Simaan, M., Ando, K., Fukuhara, S., Sakurai, A., Amornphimoltham, P., Masedunskas, A., Weigert, R., Chavakis, T., Adams, R.H, Offermanns, S., Mochizuki, N., Zheng, Y. and Gutkind, J.S. RhoA and ROCK mediate histamine-induced vascular leakage and anaphylactic shock. *Nat. Commun.* 2015 10(6):6725. doi:10.1038/ncomms7725.
23. Doçi, C.L., **Mikelis, C.M.**, Molinolo, A.A., Amornphimoltham, P., Lionakis, M.S., and Gutkind, J.S. Genetic Identification of Sema3F as an Anti-Lymphangiogenic Metastasis Suppressor Gene in Head and Neck Squamous Carcinoma. *Cancer Res.* 2015 Jul 15;75(14):2937-48. doi: 10.1158/0008-5472.CAN-14-3121. Epub 2015 May 7.
24. Punganuru, S.R., Madala, H.R., Venugopal, S.N., Samala, R., **Mikelis, C.** and Srivenugopal, K.S. Design and synthesis of a C7-aryl piperlongumine derivative with potent antimicrotubule and mutant p53-reactivating properties. *Eur. J. Med. Chem.* 2016 107:233-44.
25. O'Hayre, M., Inoue, A., Kufareva, I., Wang, Z., **Mikelis, C.M.**, Drummond, R.A., Avino, S., Finkel, K., Kalim, K.W., DiPasquale, G., Guo, F., Aoki, J., Zheng, Y., Lionakis, M.S., Molinolo, A.A. and Gutkind, J.S. Inactivating mutations in GNA13 and RHOA in Burkitt's lymphoma and diffuse large B-cell lymphoma: a tumor suppressor function for the G α ₁₃/RhoA axis in B cells. *Oncogene* 2015 Nov 30. Doi: 10.1038/onc.2015.442.
26. Drummond, R.A., Collar, A.L., Swamydas, M., Rodriguez, C.A., Lim, J.K., Mendez, L.M., Fink, D.L., Hsu, A.P., Zhai, B., Karazum, H., **Mikelis, C.M.**, Rose, S.R., Ferre, E.M.,

- Yockey, L., Lemberg, K., Kuehn, H.S., Rosenzweig, S.D., Lin, X., Chittiboina, P., Datta, S.K., Belhorn, T.H., Weimer, E.T., Hernandez, M.L., Hohl, T.M., Kuhns, D.B. and Lionakis, M.S. CARD9-Dependent Neutrophil Recruitment Protects against Fungal Invasion of the Central Nervous System. *PLoS Pathog.* 2015 Dec 17;11(12):e1005293. doi: 10.1371/journal.ppat.1005293.
27. Rieber, N., Gazendam, R.P., Freeman, A.F., Hsu, A.P., Collar, A.L., Sugui, J.A., Drummond, R.A., Rongkavilit, C., Hoffman, K., Henderson, C., Clark, L., Mezger, M., Swamydas, M., Engeholm, M., Schüle, R., Neumayer, B., Ebel, F., **Mikelis, C.M.**, Pittaluga, S., Prasad, V.K., Singh, A., Milner, J.D., Williams, K.W., Lim, J.K., Kwon-Chung, K.J., Holland, S.M., Hartl, D., Kuijpers, T.W., Lionakis, M.S. Extrapulmonary Aspergillus Infection in Patients 1 with CARD9 Deficiency. *J Clin Invest Insight* 2016 Oct 20; 1(17):e89890.
28. *Doçi, C.L., * **Mikelis, C.M.**, Callejas-Valera, J.L., Hansen, K.K., Molinolo, A.A., Gutkind, J.S. Epidermal loss of Gα_q confers a migratory and differentiation defect in keratinocytes. *PLOS One* 2017 Mar 16;12(3):e0173692. * Co-first author.
29. Ranjan, A., German, N., **Mikelis, C.**, Srivenugopal, K., Srivastava, S.K. Penfluridol induces endoplasmic reticulum stress leading to autophagy in pancreatic cancer. *Tumour Biol.* 2017 Jun;39(6):1010428317705517.
30. Sajib, M.S., Zahra, F.T., Lionakis, M.S., German, N., **Mikelis C.M.** Mechanisms of angiogenesis in microbe-regulated inflammatory and neoplastic conditions. *Angiogenesis* 2017 Nov 6. doi: 10.1007/s10456-017-9583-4.
31. Collar, A.L., Swamydas, M., O'Hayre, M., Sajib, M.S., Hoffman, K.W., Singh, S.P., Mourad, A., Johnson, M.D., Ferre, E.M.N., Farber, J.M., Lim, J.K., **Mikelis, C.M.**, Gutkind, J.S., Lionakis M.S. The homozygous CX3CR1-M280 mutation impairs human monocyte survival. *JCI Insight* 2018 Feb 8;3(3). pii: 95417. doi: 10.1172/jci.insight.95417. [Epub ahead of print]
32. Drummond, R.A., Zahra, F.T., Natarajan, M., Swamydas, M., Hsu, A.P., Wheat, L.J., Gavino, C., Vinh, D.C., Holland, S.H., **Mikelis, C.M.***, Lionakis, M.S. GM-CSF Therapy in Human CARD9 Deficiency. *J Allergy Clin Immunol* 2018 Jun 8. pii: S0091-6749(18)30846-7. doi: 10.1016/j.jaci.2018.05.025. [Epub ahead of print]
- * Co-corresponding author
33. Punganuru, S.R., Madala, H.R., Mikelis, C.M., Dixit, A., Arutla, V., Srivenugopal, K.S. Conception, synthesis, and characterization of a rofecoxib-combretastatin hybrid drug with potent cyclooxygenase-2 (COX-2) inhibiting and microtubule disrupting activities in colon cancer cell culture and xenograft models. *Oncotarget* 2018 May 25;9(40):26109-26129. doi: 10.18632/oncotarget.25450. [Epub ahead of print]

B. Invited Editorials

1. Sajib, M.S. and **Mikelis, C.M.** Angiogenesis in Dental and Oral Conditions: Too important to Ignore. *EC Dental Science* ECP.01 (2016): 43-44.
2. Zahra, F.T. and **Mikelis, C.M.** Anti-angiogenesis efforts for cancer treatment: Seeking for crossroads. *Annals of Pharmacology and Pharmaceutics* (accepted)

C. Patents

1. German, N. and **Mikelis, C.M.** Substituted bisphenylalkylurea compounds and methods. US 62/543,336.

D. Book Chapters

1. Polykratis, A., Papadimitriou, E., **Mikelis, C.**, Zompra, A., Galanis, A., Cordopatis, P., Courty, J., and Katsoris, P. Synthesis and biological action of two synthetic peptides corresponding to the C-terminal region of HARP. *In: 3rd Hellenic Forum of Bioactive Peptides*, ed. by Cordopatis P.A., Manesi-Zoupa E. and Pairas G., Typorama, pps. 473-480, 2003.
2. Kaspiris, A., Sajib, M.S., Tuz Zahra, F., Chronopoulos, E., Savvidou, O.D., **Mikelis C.M.** Role of angiogenesis in bone regeneration. *In: Bone regeneration: Concepts, Clinical Aspects and Future Directions*. Nova Science Publications 2018. *In press*.
3. Castana, P., Zahra, F.T., Denekou, D., Katraki-Pavlou, S., Lionakis, M.S., **Mikelis, C.M.**, Papadimitriou, E. Matrigel plug assay for *in vivo* evaluation of angiogenesis. *Methods in Molecular Biology*, Springer Science+Business Media New York 2018. *In press*.
4. Zahra, F.T., Choleva, E., Sajib, M.D., Papadimitriou, E., **Mikelis, C.M.** *In vitro* spheroid sprouting assay of angiogenesis. *Methods in Molecular Biology*, Springer Science+Business Media New York 2018. *In press*.

E. Abstracts in International Conferences

1. In peer-reviewed journals

1. Polykratis A., **Mikelis C.**, Katsoris P., Courty J., Zompra A., Cordopatis P. and Papadimitriou E. "HARP domains with different activity on angiogenesis". 4th *Conference on Drug Design and Development*, Patras, Greece, March 13-14, 2003. Citation: Review of Clinical Pharmacology and Pharmacokinetics, International Edition, 17: 85, 2003.
2. **Mikelis C.**, Polykratis A., Zompra A., Cordopatis P., Katsoris P., Courty J. and Papadimitriou E. "A synthetic peptide that corresponds to the C-terminal region of HARP inhibits angiogenesis *in vivo* and *in vitro*". 3rd *Panhellenic Congress in Pharmacology, Thessaloniki, Greece, 14-15 February, 2004.* Citation: Review of Clinical Pharmacology and Pharmacokinetics, International Edition, 18: 144-145, 2004.
3. **Mikelis C.**, Polykratis A., Katsoris P., Zompra A., Cordopatis P., Courty J. and Papadimitriou E. "Antiangiogenic activity of a synthetic peptide that corresponds to the C-terminal region of HARP". 4th *Hellenic Forum on Bioactive peptides, Patras, Greece, 22-24 April, 2004.* Citation: Journal of Peptide Science, Supplement 10: H62, 2004.
4. Polykratis A., **Mikelis C.**, Katsoris P., Courty J. and Papadimitriou E. "Heparin affin regulatory peptide signaling in human endothelial cells". *ECCO 13 -The European Cancer Conference, Paris, France, 30 October-3 November, 2005.* Citation: European Journal of Cancer, Supplement 3 (2): 54, 2005.
5. **Mikelis C.**, Zompra A., Cordopatis P. and Papadimitriou E. "A synthetic peptide that corresponds to the C-terminal region of HARP inhibits effects of HARP on endothelial cells". 4th *Panhellenic Congress of Pharmacology, May 19-20 2006, Patras, Greece.* Citation: Review of Clinical Pharmacology and Pharmacokinetics, International Edition, 20: 254, 2006.
6. Parthymou A., Lampropoulou E., **Mikelis C.**, Drosou G. and Papadimitriou E. "Role of heparin affin regulatory peptide in glioma cell growth and angiogenicity". 8th *International Conference "Angiogenesis: Basic Science and Clinical Applications", June 29-July 3 2006, Corfu, Greece.* Citation: Endothelium, 13: 297, 2006.
7. Drosou G., **Mikelis C.** and Papadimitriou E. "Role of heparin affin regulatory peptide in angiogenesis *in vivo*". 8th *International Conference "Angiogenesis: Basic Science and Clinical Applications", June 29-July 3 2006, Corfu, Greece.* Citation: Endothelium, 13: 311, 2006.

8. Lampropoulou E., Lambrou M., Parthymou A., Koutsoumpa M., **Mikelis C.**, Giannopoulou E. and Papadimitriou E. "Pleiotrophin as a new target for therapy of tumors". *32nd FEBS Congress, Vienna, Austria, July 7-12, 2007*. Citation: The FEBS Journal, 274 (Suppl. 1): 160, 2007.
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10. **Mikelis C.** and Papadimitriou E. "Novel mechanism that mediates the angiogenic properties of pleiotrophin through $\alpha_v\beta_3$ ". *33rd FEBS Congress and 11th IUBMB Conference, Athens, June 28-July 3, 2008*. Citation: The FEBS Journal, 275 (Suppl. 1): 314, 2008.
11. Drosou G., **Mikelis C.**, Theochari K., Vourtsis D., Giannopoulou E., Katsoris P. and Papadimitriou E. "Expression of pleiotrophin is essential for angiogenesis in vivo". *33rd FEBS Congress and 11th IUBMB Conference, Athens, June 28-July 3, 2008*. Citation: The FEBS Journal, 275 (Suppl. 1): 317, 2008.
12. Papadimitriou E., **Mikelis C.**, Lampropoulou E., Koutsoumpa M., Theochari K., Tsirmoula S., Theodoropoulou C., Lamprou M., Sfaelou E., Vourtsis D. and Mpountouris P. "The role of the growth factor pleiotrophin and its receptors in tumor growth and angiogenesis". *8th International Conference of Anticancer Research, Kos, 17-22 October 2008*. Citation: Anticancer Research 28 (5C): 3436, 2008.

2. In international conference proceedings

1. Papadimitriou E., Polykratis A., Karetsou E., Kokolakis G., Courty J., **Mikelis C.** and Katsoris P. "Regulation of angiogenesis by the growth factor HARP". *EU Workshop on Cellular Transport Strategies for targeting of Epitopes, Drugs and Reporter Molecules, Budapest, Hungary, 6-9 March 2003*.
2. **Mikelis C.**, Polykratis A., Katsoris P., Zompra A., Cordopatis P., Courty J. and Papadimitriou E. "Synthesis and biological actions of a synthetic peptide that corresponds to the C-terminal region of HARP". *EU Workshop on Cellular Transport Strategies for targeting of Epitopes, Drugs and Reporter Molecules, Budapest, Hungary, 6-9 March 2003*.

3. **Mikelis C.**, Polykratis A., Katsoris P., Zompra A., Cordopatis P., Courty J. and Papadimitriou E. "Synthesis and biological actions of a synthetic peptide that corresponds to the C-terminal region of HARP". *7th Biannual International Conference "Angiogenesis: Basic Science and Clinical Applications"*, Crete, 2-8 July 2003.
4. **Mikelis C.**, Bakopanos K., Pavlopoulos G., Katsoris P., Wdzieczak-Bakala J. and Papadimitriou E. "Effect of the tetrapeptide AcSDKP and analogues on angiogenesis in the chicken embryo chorioallantoic membrane *in vivo*". *7th Biannual International Conference "Angiogenesis: Basic Science and Clinical Applications"*, Crete, 2-8 July 2003.
5. Polytarchou C., Hatziapostolou M., Papadopoulou A., Poimenidi E., **Mikelis C.** and Papadimitriou E. "The role of eNOS in hydrogen peroxide-induced pleiotrophin up-regulation and endothelial cell activation". *3rd International Meeting on Angiogenesis*, VU University Medical Center, Amsterdam, The Netherlands, March 1-3 2007.
6. **Mikelis C.** and Papadimitriou E. "Regulation of angiogenesis by heparin affin regulatory peptide". *FEBS Advanced Lecture Course "Matrix Pathobiology, Signaling and Molecular Targets"*, Conference and Cultural Center of the University of Patras, May 21-26, 2007.
7. **Mikelis C.** and Papadimitriou E. "Novel mechanism that mediates the angiogenic properties of pleiotrophin through interaction with integrin $\alpha_v\beta_3$ and MMP-2". *Keystone Symposia on Molecular and Cellular Biology "Molecular Mechanisms of Angiogenesis in Development and Disease"*, Vancouver, Canada, January 15-20, 2008.
8. **Mikelis C.** and Papadimitriou E. "Novel mechanism that mediates the angiogenic properties of pleiotrophin through $\alpha_v\beta_3$ integrin". *8th Euroconference on Angiogenesis*, Paris, France, May 9-12, 2008.
9. **Mikelis C.** and Papadimitriou E. "Integrin $\alpha_v\beta_3$ is a principal mediator of PTN-induced endothelial cell migration". *9th International Conference "Angiogenesis: Basic Science and Clinical Applications"*, Conference and Cultural Centre of the University of Patras, June 22-26, 2008.
10. Drosou G., **Mikelis C.**, Theochari K., Vourtsis D., Giannopoulou E., Katsoris P. and Papadimitriou E. "The role of endogenous pleiotrophin expression in angiogenesis *in vivo*". *9th International Conference "Angiogenesis: Basic Science and Clinical Applications"*, Conference and Cultural Center of the University of Patras, June 22-26, 2008.

11. Papadimitriou E., **Mikelis C.**, Koutsioumpa M. and Theodoropoulou C. "Receptor Protein Tyrosine Phosphatase beta/zeta as a possible new target to regulate endothelial and tumor cell migration". *EHRlich II: 2nd World Conference on Magic Bullets*, Nuremberg, Germany, October 3-5, 2008.
12. **Mikelis C.**, Koutsioumpa M., Theohari K., Tsirmoula S., Kieffer N., Zompra K., Cordopatis P., Koutsioubas A. G., Vradis A. A. and Papadimitriou E. "Interaction of pleiotrophin with $\alpha_v\beta_3$ integrin determines its effect on endothelial and tumor cell migration". *FEBS Advanced Lecture Course FEBS-MPST "Matrix Pathobiology, Signaling and Molecular Targets"*, Conference and Cultural Center of the University of Patras, July 11-16, 2009.
13. Koutsioumpa M., **Mikelis C.**, Kieffer N., Skandalis S. S., Hellman U., Petrou C., Magafa V., Cordopatis P. and Papadimitriou E. "A role of nucleolin in the $\alpha_v\beta_3$ integrin-mediated pleiotrophin-induced cell migration". *FEBS Advanced Lecture Course FEBS-MPST "Matrix Pathobiology, Signaling and Molecular Targets"*, Conference and Cultural Center of the University of Patras, July 11-16, 2009.
14. Koutsioumpa M., **Mikelis C.**, Kieffer N., Skandalis S. S., Hellman U., Petrou C., Magafa V., Cordopatis P. and Papadimitriou E. "Cell surface expression of nucleolin is maintained by $\alpha_v\beta_3$ integrin and is required for pleiotrophin-induced cell migration". *10th International Conference "Angiogenesis: Basic Science and Clinical Applications"*, Crete, 2010.
15. Kaspiris A., **Mikelis C.**, Khaldi L., Grivas T., Kouvaras I., Dangas S., Vasileiadis E. and Papadimitriou E. "Expression of the growth factor pleiotrophin and its receptor Protein Tyrosine Phosphatase beta/zeta (RPTP β/ζ) in patients with osteoarthritis". OARSI, World Congress on Osteoarthritis, Brussels, Belgium, September 23-26, 2010.
16. Papadimitriou E., Koutsioumpa M. and Mikelis C. "The growth factor pleiotrophin induces migration of endothelial and tumor cells that express $\alpha_v\beta_3$ (alpha v beta 3) integrin and nucleolin on their cell surface". Worldpharma 2010, Copenhagen, Denmark, July 17-23, 2010.
17. **Mikelis, C.M.**, Palmby, T. R., Simaan, M., Li, W., Szabo, R., Lyons, R., Martin, D., Yagi, H., Fukuhara, S., Chikumi, H., Galisteo, R., Mukoyama, Y., Bugge, T. H. and Gutkind, J.S. PDZ-RhoGEF and LARG are essential for embryo development, and provide a link between thrombin and LPA receptors and Rho activation. AABMB Conference, Boston, USA, April 20-24, 2013.

18. **Mikelis, C.M.**, Simaan, M., Ando, K., Fukuhara, S., Sakurai, A., Masedunskas, A., Amornphimoltham, P., Weigert, R., Adams, R.H, Offermanns, S., Zheng, Y. and Gutkind, J.S. ROCK inhibitors prevent from anaphylactic shock. IVBM 2014, Kyoto, Japan, April 14-17, 2014.
19. O'hayre, M., Inoue, A., Sales, K., Kufareva, I., Callejas Valera, J.L., Guo, F., **Mikelis, C.**, DiPasquale, G., Finkel, K., Aoki, J., Zheng, Y., Bugge, T.H. and Gutkind, J.S. Novel roles for GNA13 and RHOA as tumor suppressor genes. AACR 106th Annual Meeting, Philadelphia, PA, USA, April 18-22, 2015.
20. Doçi, C.L., **Mikelis, C.M.**, Lionakis, M.S., Molinolo, A.A., and Gutkind J.S. Recurrent 3p21 deletion in head and neck squamous cell carcinoma identifies SEMA3F as an anti-lymphangiogenic metastasis suppressor gene. AACR 106th Annual Meeting, Philadelphia, PA, USA, April 18-22, 2015.
21. Punganuru, S., Madala, H., Cobos, C., **Mikelis, C.**, Srivenugopal, K. Design of a Rofecoxib-Combretastatin Hybrid Drug That Exerts Potent and Improved Antimicrotubule and Angiogenesis Properties. Cancer Prevention & Research Institute of Texas (CPRIT) 2015 Innovations in Cancer Prevention and Research Conference, Austin, Texas, USA, November 9-10, 2015.
22. Madala, H.R., Punganuru, S.R., **Mikelis, C.M.**, Srivenugopal, K.S. Design of a Rofecoxib-Combretastatin hybrid drug that exerts potent and improved antimicrotubule and anti-angiogenesis properties retaining COX-2 Inhibition. 28th Annual Student Research Week, Texas Tech University Health Sciences Center, Lubbock, Texas, USA, March 8-11, 2016.
23. Sajib, M.S., Ashraf-Uz-Zaman, M., **Mikelis, C.M.**, German, N. Evaluation of the fungal metabolite Gliotoxin as an anti-cancer agent. 28th Annual Student Research Week, Texas Tech University Health Sciences Center, Lubbock, Texas, USA, March 8-11, 2016.
24. Punganuru, S.R., Madala, H.R., **Mikelis, C.M.**, Srivenugopal, K.S. Design of a Rofecoxib-Combretastatin hybrid drug that exerts potent and improved antimicrotubule and anti-angiogenesis properties retaining Cox-2 inhibition. 55th Annual Meeting and Tox Expo, New Orleans, LA, USA, March 13-17, 2016.
25. Sajib, M.S., Park, J.H., Apu, M.N.H., Wagner, R., Tewari, H., Srivastava, S.K., Tullar, P., Bickel, U., **Mikelis, C.M.** Endothelial RhoA signaling pathway: Role in cancer metastasis. 2016 Amarillo Research Week, School of Medicine, Texas Tech University Health Sciences Center, Amarillo, Texas, USA, March 21, 2016.

26. Apu, M.N.H., Sajib, M.S., Wagner, R., Tewari, H., Saifuddin, S., Srivastava, S.K., Tullar, P., **Mikelis, C.M.** Role of RhoA signaling pathway in bFGF- and cancer-induced angiogenesis. 2016 Amarillo Research Week, School of Medicine, Texas Tech Health Sciences Center Amarillo, Texas, USA, March 21, 2016.
27. Punganuru, S.R., Madala, H.R., **Mikelis, C.M.**, Srivenugopal, K.S. Design of a Rofecoxib-Combretastatin hybrid drug that exerts highly potent antimicrotubule, anti-angiogenesis properties and Cox-2 inhibition both in cell culture and xenograft models. AACR Annual Meeting, New Orleans, LA, USA, April 16-20, 2016.
28. Sajib, M.S., Park, J.H., Apu, M.N.H., Wagner, R., Tewari, H., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Endothelial RhoA signaling pathway: Role in cancer metastasis. 2016 Amarillo Research Days, School of Pharmacy, Texas Tech University Health Sciences Center, Amarillo, Texas, USA, June 1-2, 2016.
29. Apu, M.N.H., Sajib, M.S., Wagner, R., Tewari, H., Saifuddin, S., Srivastava, S.K., Tullar, P., **Mikelis, C.M.** Role of RhoA signaling pathway in bFGF-induced angiogenesis. 2016 Amarillo Research Days, School of Pharmacy, Texas Tech Health Sciences Center Amarillo, Texas, USA, June 1-2, 2016.
30. Sajib, M.S., Ashraf-Uz-Zaman, M., **Mikelis, C.M.**, German, N. Evaluation of the Fungal Metabolite Gliotoxin as an Anti-Cancer Agent. 2016 Amarillo Research Days, School of Pharmacy, Texas Tech Health Sciences Center Amarillo, Texas, USA, June 1-2, 2016.
31. Sajib, M.S., Park, J.H., Zahra, F.T., Tullar, P., Bickel, U., **Mikelis, C.M.** Role of endothelial RhoA in cancer cell trans-endothelial migration and metastasis. NAVBO Vasculata Conference, Philadelphia USA and Uppsala, Sweden, August 15-17, 2016.
32. Sajib, M.S., Park, J.H., Zahra, F.T., Tullar, P., Srivastava, S.K., Gutkind, J.S., Bickel, U., **Mikelis, C.M.** Role of endothelial RhoA signaling pathway in cancer metastasis. 19th International Vascular Biology Meeting, Boston, MA, USA, October 30- November 3, 2016.
33. Sajib, M.S., Park, J.H., Zahra, F.T., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Involvement of endothelial small GTPases in trans-endothelial cancer cell migration. 2017 Gordon Conference on Vascular Cell Biology: Emerging Mechanisms of Vascular Biology, Disease and Treatment, Ventura, CA, USA, January 15-20, 2017.
34. Zahra, F.T., Sajib, M.S., Apu, M.N.H., Tullar, P., Lionakis, M.S., **Mikelis, C.M.** Participation of endothelial RhoA in basic Fibroblast Growth Factor (bFGF)-induced

- angiogenesis. 29th TTUHSC Student Research Week, Lubbock, TX, USA, March 7-10, 2017.
35. Sajib, M.S., Zahra, F.T., Park, J.H., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Endothelial cytoskeletal reorganization through RhoA/ROCK pathway is required for cancer cell migration. 29th TTUHSC Student Research Week, Lubbock, TX, USA, March 7-10, 2017.
 36. Zahra, F.T., Sajib, M.S., Apu, M.N.H., Tullar, P., Lionakis, M.S., **Mikelis, C.M.** Participation of endothelial RhoA in basic Fibroblast Growth Factor (bFGF)-induced angiogenesis. Vasculata 2017, University of Illinois at Chicago, IL, USA, July 23-27, 2017.
 37. Sajib, M.S., Zahra, F.T., Park, J.H., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Endothelial cytoskeletal reorganization through RhoA/ROCK pathway is required for cancer cell migration. Vasculata 2017, University of Illinois at Chicago, IL, USA, July 23-27, 2017.
 38. Hossain, A., Sajib, M.S., Patel, R., Al-Ahmad, A., **Mikelis, C.**, German N. Effect of the disulfide bridge on the biological activity of the gliotoxin. American Chemical Society, 73rd Annual Southwest Regional Meeting, Lubbock, TX, USA, October 29- November 1, 2017.
 39. Sajib, M.S., Zahra, F.T., Park, J.H., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Tumor cells activate small GTPase RhoA in endothelial cells to facilitate transendothelial migration during cancer metastasis. TTUHSC Student Research Week (SRW), Lubbock, TX, March 20-25, 2018.
 40. Zahra, F.T., Sajib, M.S., Ichiyama, Y., Tullar, P., Kubota, Y., **Mikelis, C.M.** Role of endothelial small GTPase RhoA in embryo development and retinal angiogenesis. TTUHSC Student Research Week (SRW), Lubbock, TX, March 20-25, 2018.
 41. Sajib, M.S., Zahra, F.T., Akwii, R., Park, J.H., Tullar, P., Srivastava, S.K., Bickel, U., **Mikelis, C.M.** Endothelial RhoA-mediated vascular permeability in metastasis. 17th Amarillo Research Days, Amarillo, TX, June 13-14, 2018.
 42. Zahra, F.T., Sajib, M.S., Ichiyama, Y., Tullar, P., Kubota, Y., **Mikelis, C.M.** Differential role of endothelial small GTPase RhoA in physiological versus pathological angiogenesis. 17th Amarillo Research Days, Amarillo, TX, June 13-14, 2018.

Professional Memberships

- Hellenic Society of Biochemistry and Molecular Biology (HSBMB) (2005-today)
- Associate member of Faculty 1000 (2011-today).
- American Society of Biochemistry and Molecular Biology (ASBMB) (2012-today)
- North American Vascular Biology Organization (NAVBO) (2015-today)
- American Association of Pharmaceutical Scientist (AAPS) (2015-today)
- International Society for Extracellular Vesicles (ISEV) (2016-today)
- American Association of Cancer Research (AACR) (2016-today)
- American Association of Colleges of Pharmacy (AACP) (2016-today)

Fellowships for Conference Participations

- Fellowship for participation in the CellTarget Conference, Budapest, Hungary, March 2003.
- Fellowship from the European School of Haematology for participation in the 8th Euroconference on Angiogenesis, Paris, France, May, 2008.
- Fellowship from the Hellenic Society for Biochemistry and Molecular Biology for participation in the 33rd FEBS Congress and 11th IUBMB Conference, Athens, June, 2008.
- Fellowship from ASBMB (American Society for Biochemistry and Molecular Biology) for attendance of 2013 ASBMB Annual Meeting, Boston, MA, April, 2013.
- Fellows Award for Research Excellence (FARE), sponsored by the NIH Scientific Directors, Office of Intramural Training and Education and FelCom for conference attendance within 2014.

Invited Lectures

1. University of Dresden, Germany (August 2013)
2. Texas Tech University, Texas, USA (February 2014)
3. University of Nottingham, UK (May 2014)
4. Wilmer Eye Institute, Johns Hopkins University, USA (July 2014)
5. University of Patras, Greece (June 2015)

6. Immunotherapeutics and Biotechnology Department, School of Pharmacy, Texas Tech Health Sciences Center, Abilene, Texas, USA (October 2015)
7. Department of Pharmaceutical Sciences, Bouve College of Health Sciences, Northeastern University, Boston, Massachusetts, USA (March 2016)
8. Amarillo Research Days organized by the School of Pharmacy, TTUHSC, Amarillo, USA (June 2016)
9. Amarillo Research Days organized by the School of Pharmacy, TTUHSC, Amarillo, USA (June 2018)

Invited Lectures in International Conferences

1. 12th Annual International Innate Immunity Conference (June 2015)
2. 14th Annual International Innate Immunity Conference (June 2017)

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