

CURRICULUM VITAE KONSTANTINA NIKA

Personal Information

Name: Konstantina Nika

Date of birth: 09/03/1975

Place of birth: Athens

Employment: Lecturer, School of Medicine, University of Patras

Address: Division of Biochemistry, 1 Asklipiou st., 26504 Patras, Greece

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EDUCATION

October 1993 - June 1996: BSc (Hons) second upper class in Biomedical Sciences in the School of Pharmacy and Biomedical Sciences, University of Portsmouth, UK

January 1997 - May 2001: PhD in the School of Pharmacy and Biomedical Sciences, Portsmouth University, UK, with the title: 'The interactions of immune cytokines with sulphated polysaccharides

SCIENTIFIC POSITIONS

06 February 2015 -present: Lecturer, Division of Biochemistry, Faculty of Medicine, University of Patras.

19 July 2006 - 01 February 2015: Research Scientist (grade 8, point 7), Sir William Dunn School of Pathology, University of Oxford, UK

14 May 2002 – 6 June 2006: Postdoctoral associate, Sanford/Burnham Medical Research Institute, La Jolla CA, USA.

PUBLICATIONS

Published: 15

Under Review: 2

Citations: 3355 (Google Scholar), 2387 (Scopus)

h index: 13 (Google Scholar), 12 (Scopus)

Accumulated Impact Factor (IF): 128.8

Nika, K*, Schutze, A., Grottesi, A., Marco D'Abramo, M., Kalli, A., Schermelleh, L., Masi, G., Hoefler, T., Sansom, M., He, H. T. and Acuto, O. The lipid-protein-self-rule for the functional nanoscale lateral organization of the plasma membrane. DEVELOPMENTAL-CELL-D-17-00629. Under review, *Corresponding author

Theofani, E., Alexis, S., Costeas, P., Andriopoulos, C., Feleskoura, G., Zikos, P., Aktypi, A., Spyridonidis, A. and **Nika, K.*** Ectopic Lck expression in CLL demarcates intratumoral subpopulations with aberrant B-cell receptor signaling. Blood Advances MS#ADVANCES/2017/015321. Under review, *Corresponding author

1. **Nika, K.*** and Acuto, O. (2015) Membrane nanodomains in T cell antigen receptor signalling. *Essays Biochem.* 57;165-75, *Corresponding author **IF: 2.227, Number of citations: 3**
2. Paster W., Bruger AM., Katsch K., Grégoire C., Roncagalli R., Fu G., Gascoigne NR., **Nika K.**, Cohnen A., Feller SM., Simister PC., Molder KC., Cordoba SP., Dushek O., Malissen B., Acuto O. (2015) A THEMIS:SHP1 complex promotes T-cell survival. *EMBO J.* 34(3):393-409. **IF: 9.792, Number of citations: 33**
3. **Nika, K.**, Soldani, C., Salek, M., Paster, W., Gray, A., Etzensperger, R., Fugger, L., Polzella, P., Cerundolo, V., Dushek, O., Höfer, T., Viola A. and Acuto, O. (2010) Constitutively active Lck kinase in T cells drives antigen receptor signal transduction. *Immunity.* 32:766-77. **IF: 22.845, Number of citations: 210**
4. Dong, S., Corre, B., **Nika, K.**, Pellegrini, S. and Michel, F. (2010). T cell receptor signal initiation induced by low-grade stimulation requires the cooperation of LAT in human T cells. *PLoS ONE.* 5(11):e15114. **IF: 2.806, Number of citations: 16**
5. **Nika***, **K.**, Tautz, L., Arimura, Y., Williams, S. and Mustelin, T. (2007) A weak Lck tail-bite is necessary for Lck function in T cell antigen receptor signaling. *J. Biol. Chem.* 282:36000-9. *Corresponding author **IF: 4,125, Number of citations: 31**
6. Friedberg, I., **Nika, K.**, Tautz, L., Saito, K., Cerignoli, F., Friedberg, I., Godzik, A. and Mustelin, T. (2007) Identification and characterization of DUSP27, a novel dual-specificity protein phosphatase. *FEBS Lett.* 581:2527-33. **IF: 3.902, Number of citations: 18**
7. **Nika, K.**, Charvet, C., Williams, S., Tautz, L., Bruckner, S., Rahmouni, S., Bottini, N., Scoenberger, S.P., Baier, G., Altaman, A. and Mustelin, T. (2006) Lipid Raft targeting of the hematopoietic protein tyrosine phosphatase (HePTP) by PKC θ -mediated phosphorylation. *Mol. Cell. Biol.* 26:1806-16. **IF: 4.398, Number of citations: 26**
8. Vang T., Congia M., Macis M.D., Musumeci L., Orru V., Zavattari P., **Nika K.**, Tautz L., Taskén K., Cucca F., Mustelin T., and Bottini N. (2005) Autoimmune-associated lymphoid tyrosine phosphatase is a gain-of-function variant. *Nat Genet.* 160:121-6. **IF: 27.959, Number of citations: 688**
9. Bottini, M., Brunker, S., **Nika, K.**, Bottini, N., Belluci, S., Magrini, A., Bergamasci, A. and Mustelin, T. (2005) multi-walled carbon nanotubes induce T lymphocyte apoptosis. *Tox. Let.* 5984:1-6. **IF: 3.262, Number of citations: 648**
10. Abrahamsen, H., Baillie, G., Ngai, J., Mongillo, M., Vang, T., **Nika, K.**, Ruppelt, A., Mustelin, T., Housley, M., Zaccolo, M. and Tasken, K. (2004). TCR- and CD28-mediated recruitment of phosphodiesterase 4 to lipid rafts potentiates TCR signaling. *J. Immunol.* 173:4847-58. **IF: 4.92, Number of citations: 128**
11. Mustelin T, Alonso, A., Bottini, N., Huynh, H., Rahmouni, S., **Nika, K.**, Louis-dit-Sully, C., Tautz, L., Togo, S.H., Bruckner, S., Mena-Duran, A.V., al-Khoury, AM. (2004). Protein tyrosine phosphatases in T cell physiology. *Mol. Immunol.* 41(6-7):687-700. **IF: 3.555, Number of citations: 115**
12. Bottini N., Musumeci L., Alonso A., Rahmouni S., **Nika K.**, Rostamkhani M., MacMurray J., Pellecchia M., Eisenbarth G.S., Comings D. and Mustelin T. (2004). A functional variant of lymphoid tyrosine phosphatase is associated with type I diabetes. *Nat. Genet.* 36(4):337-8. **IF: 27.959, Number of citations: 1343**

13. **Nika, K.**, Hyunh, H., Williams, S., Surojit, P., Bottini, N., Tasken, K., Lombroso, P. and Mustelin, T. (2003). Hematopoietic protein tyrosine phosphatase (HePTP) phosphorylation by cAMP-dependent protein kinase in T cells: dynamics and subcellular location. *Biochem. J.* 387(Pt 2):335-42. **IF:** 3.797, **Number of citations:** 55
14. Huynh, H., Wang, X., Li, W., Bottini, N., Williams, S., **Nika, K.**, Ishihara, H., Godzik, A. and Mustelin, T. (2003). Homotypic secretory vesicle fusion induced by the protein tyrosine phosphatase MEG2 depends on polyphosphoinositides in T cells. *J. Immunol.* 171:6661-6671. **IF:** 4.92, **Number of citations:** 41
15. **Nika, K.**, Mulloy, B., Carpenter, B. and Gibbs, R. Specific recognition of immune cytokines by sulphated polysaccharides from marine algae. (2003). *Eur. J. Phycol.* 38:257-264. **IF:** 2.412, **Number of citations:** 23

Oral Presentations

- 2015** **Nika, K.**, Schutze, A., Grottesi, A., D'Abramo, M., Schermelleh, L., Hoefler, T. and Acuto, O. *Lck as a sensor for demonstrating the missing link between molecular compartmentalization and biological function.* 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology December 2015 Athens, Greece
- 2014** **Nika, K.**, Schutze, A., Schermelleh, L., Hoefler, T., and Acuto, O. *Lck as a probe for plasma membrane lateral organization.* 14th meeting of Systems Biology of T-cell activation in health and disease' (SYBILLA), October 2014 Madrid, Spain
- 2013** **Nika, K.**, Masi, G., Schutze, A., Kalli, A., Grottesi, A., D'Abramo, M., Schermelleh, L., Hoefler, T., Sansom, M., He, HT., and Acuto, O. *A functional probing of the plasma membrane lateral organization reveals the "lipid-protein-self" rule.* 13th meeting of Systems Biology of T-cell activation in health and disease' (SYBILLA), September 2013 Oxford, UK
- 2012** **Nika, K.**, Schutze, A., Schermelleh, L., Hoefler, T., and Acuto, O. *The role of subcellular localization of Lck in the regulation of its activity and TCR signaling.* 12th meeting of Systems Biology of T-cell activation in health and disease' (SYBILLA), October 2012 Basel, Switzerland
- 2009** **Nika, K.**, Soldani, C., Salek, M., drian Gray, A., Etzensperger, R., Polzella, P., Viola, A. and Acuto, O. *Lck regulation in T cells: new insights into T cell antigen receptor triggering.* Aegean Conferences, 5th Leukocyte Signal Transduction Workshop, June 2009, Crete, Greece.
- 2008** **Nika, K.**, Soldani C., Viola, A. and Acuto O. *Lck kinase regulation in T cells: New perspectives on T Cell Receptor signalling.* The Sir William Dunn School of Pathology Departmental Symposium Oxford UK.
- 2006** **Nika, K.**, Charvet, C., Williams, S., Tautz, L., Bruckner, S., Rahmouni, S., Bottini, N., Scoenberger, S.P., Baier, G., Altaman, A. and Mustelin, T. *Regulation of hematopoietic protein tyrosine phosphatase (HePTP) by PKC θ -mediated phosphorylation* The Burnham Institute Departmental retreat La Jolla CA.
- 2000** **Nika, K.**, Guelle, M., Carpenter, B., and Gibbs, R.V. *Characterisation of the interaction of immune cytokines with algal polysaccharides* (2000). The Journal of

Biotechnology and Molecular Biology; 12(3):121.
Proceedings of the *Joint Symposium SI-SIHC, BCG and EAACI, June 7-10, 2000, Ferrara, Italy.*

- 2000** Guelle, M., **Nika, K.**, Mernagh, D., Mulloy, B., Forster, M. and Gibbs, R. *Characterisation of interleukin 7–glycosaminoglycan interactions.* (2000). The Journal of Biotechnology and Molecular Biology; 12(3):123.
Proceedings of the *Joint Symposium SI-SIHC, BCG and EAACI, June 7-10, 2000, Ferrara, Italy.*

Posters

- 2017** Theofani, E., Alexis, S., Andriopoulos, C., Feleskoura, G., Spyridonidis, A. and **Nika, K.** *Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients.* 2nd Congress of the Hellenic Society of Gene Therapy and Regenerative Medicine, May 2017 Athens, Greece
- 2016** Theofani, E., Alexis, S., Andriopoulos, C., Feleskoura, G., Spyridonidis, A. and **Nika, K.** *Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients.* 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology, November 2016 Ioannina, Greece
- 2016** **Nika, K.**, Theofani, E., Alexis, S., Andriopoulos, C., Feleskoura, G. and Spyridonidis, A. and. *Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients.* 27th Conference of the Hellenic Society of Haematology, November 2016 Thessaloniki, Greece
- 2011** **Nika, K.** and Acuto, O. *Regulation of Lck activity and ITAM accessibility by differential subcellular localization*
EMBO conference series on ‘Signaling in the Immune System’, Siena Italy, September 2011. (25)
- 2011** **Nika, K.** and Acuto, O. *Regulation of Lck activity and ITAM accessibility by differential subcellular localization*
The 15th meeting of the Signal Transduction Society (STS) “Signal Transduction: Receptors, Mediators and Genes” November 2011, Weimar, Germany
- 2007** **Nika, K.**, Tautz, L., Arimura, Y., Williams, S. and Mustelin, T. *A weak Lck tail-bite is necessary for Lck function in TCR signaling,*
EMBO conference series on ‘Signaling in the Immune System’, Siena Italy, May 2007. (24)
- 2006** **Nika, K.**, Charvet, C., Williams, S., Tautz, L., Bruckner, S., Rahmouni, S., Bottini, N., Scoenberger, S.P., Baier, G., Altaman, A. and Mustelin, T. *Lipid raft targeting of HePTP by PKC θ -mediated Phosphorylation.* 3rd Annual Cell Signaling Symposium. Signaling in the Innate and Adaptive Immune systems, Dundee UK, June 2006. (25)
- 2001** Guelle, M., **Nika, K.**, Mulloy, B., Forster, M., Rice, J., Carpenter, B. and Gibbs, R. *Further characterization of Interleukin-7-GAG interactions.*
19th Interlec, Fortaleza Brazil, March 2001. (26)
- 1999** **Nika, K.**, Mulloy, B., Carpenter, B. and Gibbs, R. *The interactions of immune cytokines with sulphated polysaccharides*
18th Interlec, Portsmouth UK, July 1999. (27)

FUNDING

- 2016-2017 PI. Asklepeios Program (Gilead). “The role of ectopic Lck expression in constitutive activation of BCR-signaling in CLL” (Inst: University of Patras)
- 2016-2019 PI. Program C. Caratheodory. “Identification of determinants attributing Src Family Kinase substrate specificity”. (Inst: University of Patras)
- 2015-2016 Co-PI. Asklepeios Program (Gilead). “The effect of concurrent PI3K δ and LcK inhibition on BCR signaling and survival in CLL.” (Inst: University of Patras)
- 2010-2015 Co-participant. Wellcome Trust Programme Grant no. GR076558MA “Molecular mechanisms of TCR signal initiation, propagation and regulation determining T cell fate”. (Inst: University of Oxford)

TEACHING

2015-present: University of Patras

Undergraduate courses: Biochemistry II and III and Clinical Biochemistry

Postgraduate Programs: Postgraduate Program in Biomedical Sciences (BIE), Medical Physics, Biomedical Engineering

2006-2015: University of Oxford, UK

Lecturing, tutorials and supervision of lab classes in the subject of Immunohaematology for 2nd and 3rd year Medical students.

1997-2001: University of Portsmouth, UK

Part-time Lecturing position in the subjects of Immunology, haematology, Biochemistry and Histology at the School of Pharmacy and Biomedical Sciences

Supervision of Research project Theses

University of Patras, Greece

Master’s thesis advisor:

2017-present Nikolaos Koutras

Master’s thesis dissertation committee member:

2015-2017 Efthymia Theofani

Senior Undergraduate Thesis:

2016-2017 Nikolaos Koutras

2017- present Dimitrios Konstantinou

2017- present Nasia Predari

2017- present Konstantinos Souliotis

Doctoral students dissertation committee member:

2015-present Ilias Skeparnias

University of Oxford, UK

DPhil Thesis supervision:

Thomas Barke, DPhil Student.

Title: “Regulation of T cell signalling by CD45”

Annika Malin Bruger, DPhil Student.

Title: “T cell antigen receptor (TCR) signalling signatures: a quantitative assessment of the effect of TCR signal strength on early activation events”

Undergraduate Thesis supervision:

Anna Rita Liuzzi, Interuniversity program with University of Parma in Applied Biomedicine

Title: Facs analysis application on Lck activated in naive and memory T cells quantification

MSc Thesis supervision:

Roberta Mancini, Interuniversity program with Sapienza University of Rome in Pharmaceutical Biotechnology

Title: Lck expression in 293T cells by a lentiviral inducible system

REVIEWER

Frontiers in Immunology

Annals of Clinical Biochemistry

EMBO Journal

The Journal of Immunology

The European Journal of Immunology

Bioorganic and Medicinal Chemistry