

Vaclav Vetvicka

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Vaclav.vetvicka@louisville.edu

A. Education

B.S., Charles University, Prague, Czechoslovakia, Faculty of Natural Sciences, 1978,
major in General Biology

Ph.D., Institute of Microbiology, Department of Immunology, Czechoslovak Academy of
Sciences, Prague, Czechoslovakia, 1983, major in Immunology, major
professor: Helena Tlaskalová, M.D., Ph.D., Dissertation: "The role of
macrophages in immune processes".

B. Academic Appointments

Postdoctoral Research Associate, Institute of Microbiology, Department of Immunology,
Czechoslovak Academy of Sciences, Prague, Czechoslovakia, 1983-1984.

Postdoctoral Fellow, Oklahoma Medical Research Foundation, Oklahoma City, OK,
supervisor: Prof W. Kincade, Ph.D., 1984-1985.

Research Scientist, Institute of Microbiology, Department of Immunology, Czechoslovak
Academy of Sciences, Prague, Czechoslovakia, 1985-1988.

Research Associate, Oklahoma Medical Research Foundation, Oklahoma City, OK,
supervisor: Prof. Paul W. Kincade, Ph.D., 1988-89.

Research Scientist, Institute of Microbiology, Department of Immunology, Czechoslovak
Academy of Sciences, Prague, Czechoslovakia, 1989-1991.

Research Associate, University of Louisville, School of Medicine, Department of
Microbiology and Immunology, Louisville, KY, 1991 – 1994.

Assistant Professor, University of Louisville, School of Medicine, Department of
Pathology, Louisville, KY, 1994 – 2000.

Associate Professor, University of Louisville, School of Medicine, Department of
Pathology, Louisville, KY, 2000 – 2005.

Full Professor, University of Louisville, School of Medicine, Department of Pathology,
Louisville, KY, 2005 – present.

C. Other positions and Employment including Military Service

N/A

D. Research Interest Keywords

Immunomodulators; glucan; immunity; cathepsin D; breast cancer; natural immunomodulators; aspartic proteinases

E. Professional Memberships and Activities

Czech Immunological Society
International Society of Development and Comparative Immunology
Czech Chemical Society
International Union of Cancer Societies

F. Honors and Awards

Distinguished Young Scientist Award of the Czechoslovak Academy of Sciences, 1983
Fellowship of the International Union against Cancer, 1997
Outstanding Research Faculty, Chairman's Recognition Award, 1999
3rd place – Potential for Major Research Application, Research Louisville, 1999

G. Committee Assignments and Administrative Services

Vice-Chair of the Department of Pathology 2012-2017
Director for Research 2012-2017

H. Journal Editorial Boards, Advisory Councils, Peer Reviewer of Manuscripts

Editor-in-Chief, Immunology News, Official magazine of the Czechoslovak Immunological Society, 1988 – 1991.
Editor - African Journal Biochemistry Reserch, 2007 – 2016
Editor – Open Glycosciences – 2009 – 2011
Editor - North American Journal of Medical Sciences, 2010-2017
Editor – World Journal of Clinical Oncology, 2009-2014
Editor – American Journal of Immunology, 2011-present
Editor – Current Bioactive Compounds - 2011-present
Editor – J. Res. Biol. 2011-present
Editor – Chinese Journal of Clinicians – 2010 – present
Editor – ISRN Immunology – 2011 – present
Editor – Journal of Research Biology – 2011 – present
Editor – Journal of Chinese Clinical Medicine, 2001 – present
Editor – Journal of Cancer Therapeutics & Research, 2012 – present

Editor – World Journal of Respiriology – 2013 – present
Editor – Journal of Tumor – 2013 – present
Editor – Pathology Discovery – 2013 – present
Editor – Annals of Translational Medicine – 2013 – present
Editor – Science Postprint – 2013 – 2016
Editor-in-Chief – Applied Scientific Reports – 2013 – 2015
Editor – Journal of Pharmacy & Nutritional Sciences, 2013 – present
Editor – Austin Journal of Clinical Pathology, 2014 – present
Editor – Annals of Cancer Research, 2014 – present
Editor – Food Science and Nutrition, 2014 – present
Editor – The Open Biochemistry Journal, 2013 - present
Editor - International Journal of Clinical and Experimental Medical Sciences, 2015 – present
Editor-in-Chief – International Clinical Pathology Journal, 2015-present
Editor-in-Chief - Edorium Journal of Pathology – 2013 – present

Ad hoc reviewer for:

Carbohydrate Polymers, Development and Comparative Immunology, Folia Biologica, Folia Microbiologica, Journal of Interferon Research, Developmental Immunology, Journal of Immunological Methods, Immunological Letters, BioTechniques, Journal of Immunology, International Journal of Oncology, World Journal of Clinical Oncology, Open Glycoscience, Expert Reviews of Anti-Infective Therapy, Biochemical Pharmacology, Grant Agency of the Czech Republic, Susan Komen Cancer Foundation, Plant Medicine, U.S. Army Research Program, Armenia Grant Agency, International Clinical Pathology Journal, American Journal of Immunology, Marine Drugs, Ann. Translational Medicine,

I. Board Memberships

N/A

J. Teaching

Graduate Students

Methods in Immunology – 1979-1984 – 4 teaching labs per year

Immunology, Spring 1988

Immunology, Fall 1989

Immunology, Fall 1990

Immunology, Spring 1991

Immunology, UofL, Fall 1991

Immunology, UofL, Fall 1993

Medical Students

Microbiology, UofL, Fall 1991 – lectures and teaching labs
Microbiology and Immunology, UofL, Summer 1992
Microbiology and Immunology, UofL, Summer 1993
Microbiology and Immunology, UofL, Fall 1993
Microbiology and Immunology, UofL, Summer 1994
Microbiology and Immunology, UofL, Fall 1994
Elective Course Immunology of HIV Infection, Fall 1998
Microbiology and Immunology, UofL, Dental School, Spring, 1999
Elective Course Immunology of Cancer, Fall 1999
Elective Course Immunology of Cancer, Fall 2000
Biochemistry of Cancer, Dept. of Biochemistry, Fall 2000
Elective Course Immunology of Cancer, Fall 2001
Elective Course Immunology of Cancer, Spring 2003
Elective Course Immunology of Cancer, Spring 2010-2011
Elective Course Immunology of Cancer, Spring 2013-2016

Director of the Allied Health Pathology Course, UofL, 1999-2001

Graduate Students Supervised and Trained

Martin Bilej, 6/86-6/87, title of dissertation research: “Characterization and functional properties of coelomocytes for earthworms (Annelida).” Results published in two papers published in Immunol. Letters and Fol. Biologica.

Jarmila Vonková, 86/89, title of dissertation research: “Ontogenetic development of immune status of low IgG responding strain B10.” Results published in one abstract.

Martina Nechovalová, 10/90-2/91, laboratory rotation student, project: “Effect of alkaloids on the properties of macrophages.”

Ondrej Havelka, 1/91-4/91, laboratory rotation student, project; “The potentiation of the immune response in low IgG responding strain by alkaloids.”

Paula Chilton, 9/91-12/91, laboratory rotation student, project; “Effect of C3 component on the growth of human B cell lines.”

Brian P. Thornton, 1992-1995, Co-Supervisor with G.D. Ross on Ph.D. dissertation research “Natural antibody and complement-mediated antigen processing and presentation by B lymphocytes.”

Postdoctoral Fellows Trained

Jarmila Vonková, RNDr., 1990-1991, Presently Government Agency for Ecology, Decin, Czechoslovakia, Project: "Analysis of the ontogenetic development of low IgG response in C57BL/10 strain of mice."

Brian P. Thornton, 1992-1995, Co-Supervisor with G.D. Ross on project "Role of β -glucan in activation of CR3 receptors on human cells."

Petr Benes, Ph.D., 2001-2002; Project: "Transfection of cancer cells with Cathepsin D cDNA vectors".

Aruna Vashista, 2003 – 2006, Project: "Inhibition of procathepsin D by Synthesis by specific ribozymes".

Sujata Saraswat, 2003 – 2006, Project: Procathepsin D in Prostate Cancer Screening and Therapy".

K. Abstracts and Presentations

a. Oral Presentations: National/International Meetings

1. Invited talk at Institute of Physiology, "Uloha makrofagu v imunite", Prague, Czechoslovakia, March 7, 1979. (in Czech)
2. Invited talk at Institute for Drug Control, "Polymerní mikrocastice v imunologii", Prague, Czechoslovakia, February 12, 1980. (in Czech)
3. Invited talk at Conference Nеспецифическая и специфическая иммуниты и их взаимоотношения при инфекциях, "Makrofag a mezibunecne interakce", Valtice, Czechoslovakia, October 15, 1980. (in Czech)
4. Invited speaker at Czechoslovak Medical Society Workshop Biospecific Polymers, "Vyuziti syntetickych polymernich mikrocastic na bazi 2-hydroxyethyl methakrylatu v imunologickych technikach", Prague, Czechoslovakia, March 18, 1981. (in Czech)
5. Invited talk at Institute of Pharmacology, "Low- and high-responding inbred strains of mice", Prague, Czechoslovakia, June 2, 1981. (in Czech)
6. Invited talk at Symposium Phylogeny and Ontogeny of Vertebrates, "Plasma membrane properties of macrophages isolated during ontogenetic development, Masserberg, GDR, September 10-13, 1983.
7. Invited speaker at Czechoslovak Medical Society, Workshop: macrophages, "Vyuziti makrofagu pri studiu ontogenetického vyvoje mysi", Prague, Czechoslovakia, October 26, 1983.
8. Invited speaker at Oklahoma Medical Research Foundation, "Immune functions in low IgG responding strain B10", Oklahoma, Ok, April 30, 1984.
9. Invited speaker at NIH, "The synthesis and utilization of synthetic polymeric HEMA microspheres", Bethesda, MD, October 15, 1984.
10. Invited speaker at Institute of Microbiology, "Imunosupresivni efekt 5-flourouracilu na imunokompetentni bunky", Prague, Czechoslovakia, May 15, 1985. (in Czech)

11. Invited talk at Conference Cell structure and functions, "Citlivost lymfocytu a rezistence makrofagu k ucinkum 5-flourouracilu", Nitra, Czechoslovakia, march21, 1986. (in Czech)
12. Invited speaker at Czechoslovak Medical Society Workshop Genetically-based immunodeficiency, "Vlastnosti makrofagu izolovanych z spatne odpovidajiciho kmene mysi C7BL/10ScSc", Prague, Czechoslovakia, August 12, 1987. (in Czech)
13. Invited talk at Institute of Experimental and Clinical Medicine, "Phagocytosis and membrane receptors of athymic nude mice macrophages", Prague, Czechoslovakia, December 7, 1987.
14. Plenary Session speaker at V. Congress of Czechoslovak Immunologists, "Vyznam a funkce antigen presentujicich bunek v imunitnich reakcich", Plzen, Czechoslovakia, July 6, 1988. (in Czech)
15. Invited tak at Oklahoma Medical Research Foundaton, "The effect of age on antibody response in high and low IgG producing strains of mice", Oklahoma City, OK, October 19, 1988.
16. Invited talk at University of Utah, Department of Bioengineering, "The synthesis and use of polymeric HEMA microbeads in immunology and cell biology", Salt Lake City, UT, December 19, 1988.
17. Invited talk at the Institute of Microbiology, Cezchoslovak Academy of Sciences, "Rozdily v regulaci tvorby B lymfocytu a makrofagu v kostni dreni mezi dobre a spatne odpovidajicimi kmeny mysi", Prague, Czechoslovakia, may 11, 1990.
18. Invited talk at the Deutsche Rheuma-Forschunginstitut, "C57BL/10 as a model of serious immunodeficiency", West Berlin, FRG, February 15, 1991.
19. Invited talk at the University of Louisville, "The immune systems of immunodeficient mice", Louisville, KY, November 1991.
20. Invited tak at the NIH, Laboratory of Oral Medicine, "Low IgG responsiveness in B10 mice", Bethesda, MD, June 18, 1992.
21. Invited talk at the University of Delaware, Dept. Animal Science and Agriculture Biochemistry, "Immunology of annelids", Neward, DE, April 27, 1993.
22. Invited talk at the Louisiana State University, Dept. of Physiology, "Activatin of NK cells for cytotoxicity of breast cancer cells", New Orleans, LA, November 12, 1993.
23. Invited talk at the Institute of Organic Chemistry and Biochemistry, "Mitogenic function of procathepsin D", Prague, Czech Republic, December 20, 1994.
24. Invited talk at the Oklahoma Medical Research Foundation, "Activatin peptide as a potential inhibitor of breast cancer", Oklahoma City, OK, August 12, 1997.
25. Invited talk at the University of West Virginia, "Aspartic proteinases in breast cancer development, Morgantown, WV, September 9, 1997.
26. Invited talk at the Biopharm, Glucan as immunomodulator, Prague, Czech Republic, July 5, 2002.
27. Invited talk at the Mustafa Immunopharmaceuticals, Glucan as new potent immunomodulator, Istanbul, Turkey, March 2, 2003.

28. Invited talk at the Mustafa Immunopharmaceuticals, Introduction of Glucan as a promising tool for immunomodulations, Ankara, Turkey, March 3, 2003.
29. Invited talk at the Mustafa Immunopharmaceuticals, Beta glucan – new immunomodulator, Istanbul, Turkey, March 4, 2003.
30. Invited talk at the Mustafa Immunopharmaceuticals, Glucan: new look at the old immunomodulator, Ismir, Turkey, March 5, 2003.
31. Invited talk at the Mustafa Immunopharmaceuticals, The promises of beta glucan, Istanbul, Turkey, March 6, 2003.
32. Invited talk at the Institute of Microbiology, Czech Academy of Sciences, Prague, Czech Republic, Procathepsin D in breast cancer: What do we know? March 23, 2004
33. Invited talk at the Institute of Organic Chemistry and Biochemistry, Czech Academy of Sciences, Prague, Czech Republic, Cathepsin D and procathepsin D: are they two different proteins? March 25, 2004
34. Invited talk at the Annual Scientists' Seminar KLCR: Inhibition of procathepsin D secretion in lung cancer treatment, Lexington, KY, May 2004.
35. Invited talk at the Workshop "Phycarine in Oncology": The role of Phycarine and synthetic oligosaccharides in immunology, Institute Gustave roussey Villejuif, France, October 25, 2004.
36. Vetvicka, V., Ohri, S., Vashishta, A., Vetvickova, J. Molecular aspects of procathepsin D effects on invasion and growth of cancer cells. 12th World Congress on Advances in Oncology, October, Crete, Greece, p. 194, 2007.
37. Glucans as immunomodulators, Purkyne University, Brno, August 2008
38. Invited talk: Vetvicka, V.: Synergy of humic acid and beta glucan in modulation of immune reactions. Roullier Groups, Pamplona, Spain, October 10, 2008.
39. Vetvicka, V.: Beta glucan – most important immunomodulator, Prague, Czech Republic, June 25, 2009.
40. Vetvicka, V.: Beta glucan – magic bullet or big con? Keynote lecture, 5th International Conference on Polysaccharides, Prague, Czech Republic, November 11, 2009.
41. Vetvicka, V.: Vliv glukanu na zdraví, Brno, November 21, 2009.
42. Vetvicka, V.: Synergistic effects of glucan and humic acid. St. Malo, France, June 2010.
43. Vetvicka, V.: Glucan in cancer – magic bullet or big con? International Congress Natural Anticancer Drugs, Olomouc, Czech Republic, June 2012.
44. Vetvicka, V.: Role of glucan in anti-infection immunity. IKEM, Prague, Czech Republic, November 2012.
45. Vetvicka, V.: Glucans – clinical trials. Medical Faculty, Charles University Plzen, Czech Republic, November 2013.
46. Vetvicka, V.: Beta glucan v klinických zkouškách. Int. Oncol. Congress, Karlovy Vary, November 2013.
47. Vetvicka, V.: Biological effects of synthetic glucan-based oligosaccharides. Trends in Natural Products, Olomouc 2014.
48. Vetvicka, V.: Clinical trials of β -glucan: Experience from the Czech Republic. 10th International Conference on Polysaccharides-glycoscience, Prague 2014
49. Vetvicka, V.: Glucan: Clinical Trials. Biomedical Centrum Plzen, 2015

50. Vetvicka, V.: Potential benefits of β -(1-3)-D-glucans for dogs. Pet Forum 2015
51. Vetvicka, V., Vetvickova, J.: Resveratrol/Glucan/Vitamin C combinations offers strong stimulation of immunity. Annual Meeting of American Soc. Pharmacognosy, Copper Mountain, USA, *Planta Medica*, 81: 889-890, 2015
52. Vetvicka, V., Pinatto-Botello, M.F., Dos Santos, A.A., De Oliveira, A.F.: Anticancer effects of glucan combined with organic selenium derivatives. Proc. 20th World Congress on Advances in Oncology, Athens, Greece, 2015.
53. Vetvicka, V.: Glucan in health, Inst. Clinical Exp. Immunol., Prague, September 14, 2016.
54. Vetvicka, V.: Beta glucans and health, Masaryk Oncological Institute, Brno, September 15, 2016.
55. Vetvicka, V.: Glucan and human health, IKEM, February 2017.
56. Vetvicka, V.: Glucan: Clinical trials, Hospital Usti nad Labem, February 2017
57. Vetvicka, V.: Immune support in clinical patients, World Day Against Cancer, Olomouc, February 2017.
58. Vetvicka, V.: Beta glucans and health, Ostrava, February 2017.
59. Vetvicka, V.: Potential benefits of 1,3-glucan for animals, University of Sao Paolo, May 2017.
60. Vetvicka, V.: Potential benefits of glucan, Biorigin, Sao Paolo, May 2017.
61. Vetvicka, V.: Functional ingredients – how to evaluate them? Opening lecture at the XVI Congresso CBNA Pet, Brazil, May 2017.
62. Vetvicka, V.: Anti-stress action of orally-given combination of resveratrol, beta-glucan, and vitamin C. American Society of Pharmacognosy Annual Meeting, Portland, Oregon, July 29-August 2, 2017.

b. Oral Presentations: Local/Regional Meetings

1. Vetvicka, V.: Glucans and their role in oncological therapy. Arcus, Desna-Sous, 2015.
2. Vetvicka, V.: Glucan: Clinical Trials. Biomedical Centrum Plzen, 2015
3. Vetvicka, V.: Glucan. Clinical Chemistry Rounds, Louisville, KY, March 2016.
4. Vetvicka, V.: Glucan: Natural Supplements. Charles University, Prague, April 2016.
5. Vetvicka V.: Lecture Beta glucans and health at Masaryk Oncological Institute, Brno, Czech Republic, 9/15, 2016.
6. Vetvicka V.: Lecture: Role of glucans in infectious immunity, Conference Nutrition and Health, Teplice, Czech Republic, 9/20 to 9/22, 2016
7. Vetvicka, V.: Glucan: Clinical trials. Conference Clinical Immunology, Usti nad Labem, April, 2016.
8. Vetvicka, V.: Glucan and hematopoiesis, North Bohemian Immunological Conference Immunology and Hematology, Usti nad Labem, September 23-24, 2016.
9. Vetvicka V.: – Beta glucans and health. Regional Conference of professionals in pharmacy, Usti nad Orlici, 5/26/2018
10. Vetvicka V.: – Beta glucans and health. Regional Conference of Czech Ministry of Health, Teplice, 5/28/2018

11. Vetvicka V.: Beta glucans and their biological significance, Local symposium Safe Nutrition, Prague, 6/2/2018
12. Vetvicka V.: Beta glucan in human and animal health. US Embassy in Prague, 5/6/2018.
13. Vetvicka V.: Beta glucans in health. Conference for Pharmacists, Usti nad Orlici, 5/26/2018.
14. Vetvicka V.: Glucans and their biological importance. Conference Safe Nutrition, 5/20/2018, Prague
15. Vetvicka V.: Beta glucans in health. OSL Meeting, 5/28/2018, Teplice
16. Vetvicka V.: Glucans in human health. Conference for Pharmacist, 9/25/2018, Zlin
17. Plenary lecture: Beta glucan – new candidate for vaccines and drug delivery. 17th Annual Congress on Pharmaceutics and Drug Delivery Systems, September 20-22, 2018, Prague, Czech Republic

N/A

c. Poster Presentations: National/International Meetings

1. Viklicky, V., Vetvicka, V.: reflection of macrophage stimulation in the cell membrane properties, 4th Eur. Immunol. Meeting, Budapest, p.83, 1978.
2. Tlaskalova, H., Pospisil, M., Tuckova, L., Vetvicka, V., Mancal, P., Coupek, J.: Receptorove specificka separace lidskych T a B lymfocytu a jejich mitogenni odpoved, XVII Symp. Biol. Modely, Hrubá Skála, 1979 (in Czech).
3. Vetvicka, V., Jaroskova, L., Zeleny, V., Viklicky, V.: Srovnání funkční activity normalních a stimulovaných PEC v suspenzi a v podložní a vrstve, XVII Symp. Biol. Modely, Hrubá Skála, 1979 (in Czech).
4. Vetvicka, V., Viklicky, V.: Srovnání funkční activity normalních a stimulovaných makrofagu, Imunol. Zpravodaj, 10:33, 1979 (in Czech).
5. Vetvicka, V., Tlaskalova, H., Tuckova, L., Mancal, P.: Metody separace makrofagu a lymfocytu, Imunol. Zpravodaj, 10:37, 1979 (in Czech).
6. Vetvicka, V., Tlaskalova, H., Viklicky, V., Rihova, B., Horejsi, V.: Rate of receptor redistribution on the membrane of macrophages of young, adult and aged mice, IUIS Symposium, Jablonna 1980.
7. Viklicky, V., Vetvicka, V.: Limited mobility of membrane receptors of proteose peptone stimulated or adhered macrophages, Int. Congress Cell Biol., West Berlin 1980.
8. Tlaskalova, H., Rihova, B., Vetvicka, V., Novak, M., Hofman, J.: Simultaneous appearance of different hapten specific antibody forming cells (AFC) in developing mice, 4th Int. Congress Immunol., Paris, 6.3.13, 1980.
9. Vetvicka, V., Tlaskalova, H., Viklicky, V., Rihova, B., Horejsi, V.: Rate of receptor redistribution on membrane of macrophages from young, adult and aged mice, 4th Int. Congress Immunol., Paris, 4.1.15, 1980.
10. Tlaskalova, H., Tuckova, L., Vetvicka, V.: Development of immunological memory and inhibition of immune response after long-term feeding with antigen. XIX

- Internat. Symp. Biol. Models, Cellular and Molecular Mechanisms of Immunological Toleran Brno, 1980.
11. Vetvicka, V., Fornusek, L.: Zmeny funkcních aktivit makrofagu behem ontogeneze, Sjezd Cs. spol. Mikrobiol., Gottwaldov, 1980 (in Czech).
 12. Tlaskalova-Hogenova, H., Vetvicka, V., Sterzl, J., Stepankova, R.: Development of immune potential and migration pattern of cells from spleen, mesenteric lymph nodes and peyer's patches in germfree and conventionally reared rats, 7th Internat. Conference Lymphatic Tissues and Germinal Ctr. In Immune Reactions, Groningen 1981.
 13. Vetvicka, V., Tlaskalova, H., Stepankova, R.: Effect of microflora antigens on lymphocyte migration pattern in germfree and conventional rats, XXth Internat. Symp. Biol. Models, Hrubá Skála, p. 69, 1981.
 14. Koulasalova, M., Fornusek, L., Vetvicka, V., Viklicky, V.: Comparison of membrane receptor mobilities and function properties in normal and embryo fibroblasts, XXth Internat. Symp. Biol. Models, Hrubá Skála, p.40, 1981.
 15. Fornusek, L., Vetvicka, V., Stepankova, R., Jaroskova, L.: Influence of germfree state on some macrophage membrane characteristics, XXth Internat. Symp. Biol. Models, Hrubá Skála, p.16, 1981.
 16. Tlaskalova, H., Kopecek, J., Pospisil, M., Vetvicka, V.: Antibody formation and proliferative response to bacterial and synthetic antigen in cells from immature, adult and ageing mice, 14th leukocyte Culture Conf., Heidelberg, Immunobiology 159:132, 1981.
 17. Tlaskalova, H., Vetvicka, v., Lodinova, R.: Immunological components of milk; their origin and function, Human Milk Banking symp., Hradec kralové, 1981.
 18. Tlaskalova, H., Vetvicka, V., Sterzl, J., Hofman, J., Stepankova, R.: Development of some immunological functions in germfree and conventional rats, 5th Eur. Immunol. Meeting, Istanbul, p. 56, 1982.
 19. Fornusek, L., Vetvicka, V., Jaroskova, L., Stepankova, R.: Germ-free state and the macrophage plasma membrane properties, 5th Eur. Immunol. Meeting, Istanbul, p. 64, 1982.
 20. Rihova, b., Vetvicka, V.: Uptake of ⁵¹Cr-SRBC in low- and high-responder mouse strains, 5th Eur. Immunol. Meeting, Istanbul, p. 65, 1982.
 21. Rihova, B., Tlaskalova, H., Kopecek, J., Ulbrich, K., Vetvicka, V.: Immunogenicity of N-(2-hydroxypropyl) metharcylamide copolymers and their haptented derivates in inbred strains of mice, 5th Eur. Immunol. Meeting, Istanbul, p. 71, 1982.
 22. Vetvicka, V., tlaskalova, H., Fornusek, L., Rihova, B., Sima, P., Pospisil, M.: Some properties and functions of macrophages from old mice. 5th Eur. Immunol. Meeting, Istanbul, p. 128, 1982.
 23. Kopecek, J., Fornusek, L., Vetvicka, V., Kaminkova, J.: Hydrophilic microspheric particles based on 2-hydroxyethyl metharcrylate and their use in laboratory and clinical practice, 5th Eur. Immunol. Meeting, Istanbul, p. 162, 1982.
 24. Vetvicka, V., Tlaskalova, H., Fornusek, L., Sima, P.: some properties and functions of macrophages during ontogeny, Dev. Comp. Immunol. Vertebr., Masserberg, 1982.

25. Tlaskalova, H., Kopecek, J., Pospisil, M., Rihova, B., Novak, M., Hofman, J., Vetvicka, V.: Immune response to different bacterial and synthetic antigens during ontogeny, *Dev. Comp. Immunol. Vertebr.*, Masserberg, 1982.
26. Kaminkova, J., Fornusek, L., Ivaskova, E., Vetvicka, V., Rihova, B., Kasperek, L., Vranova, M.: Immune status of children with repeated acute and chronic middle-ear inflammations, 4th symp. *Allergy Clin. Immunol.*, Budapest, 1982.
27. Tlaskalova, H., Kopecek, J., Pospisil, M., Novak, M., Rihova, B., Vetvicka, V.: In vitro protilatkova a mitogenní odpoved na bakteriální odpoved na bakteriální a syntetické antigeny behem ontogenenze, *Souhrny III. Kongresu Cs. imunol.*, Hradec kralové, p. 35, 1982 (in Czech).
28. Tlaskalova, H., Vetvicka, V., Pospisil, M., Lodinova, R., Rihova, B., Mancal, P., Kopecek, J.: Imunologicka reaktivita bunek separovanych z liské krve a materského mléka, *Souhrny III. Kongresu Cs. imunol.*, Hradec Kralové, p. 38, 1982 (in Czech).
29. Vetvicka, V., Tlaskalova, H., Fornusek, L., Sima, P.: Zmeny vlastností makrofagu behem starnutí, *Souhrny III. Kongresu Cs. imunol.*, Hradec kralové, p. 40, 1982 (in Czech).
30. Vetvicka, V., Fornusek, L.: Rozdíly ve vlastnostech stimulovanych a normalních makrofagu, *Souhrny III. Kongresu Cs. imunol.*, Hradec Kralové, p. 56, 1982 (in Czech)
31. Fornusek, L., Vetvicka, V., Jaroskova, L., Stepankova, R.: Vlastnosti plazmatické membrany makrofagu u bezmikrobních zvířat, *Souhrny III, kongresu Cs. imunol.*, Hradec kralové, p. 61, 1982 (in Czech)
32. Vetvicka, V., fornusek, L., Kaminkova, J., Kasperek, L., Vranova, M.: Imunologicky profil dětí s chronickými otitdami. I. Fagocytární aktivita leukocytu a pocty T lymfocytu v periferní krvi, *Souhrny III. Kongresu Cs. imunol.*, Hradec Kralové, p. 68, 1982 (in Czech)
33. Vetvicka, V., Tlaskalova, H., Pospisil, M.: Presentace antigenu po antigenne specifické proliferaci T bunek, *Souhrny III. Kongresu Cs. Immunol.*, Hradec kralové, p. 94, 1982 (in Czech)
34. Fornusek, L., Jandova, D., Tlaskalova, H., Vetvicka, V.: Vyuzití monoklonálních anti-TNP protilatek ke studiu Fc receptoru pro IgG₁, IgG_{2a}IgM, IgA a IgE, *Souhrny III. Kongresu Cs. imunol*, Hradec Kralové, p. 96 (in Czech)
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204. Vetvicka, V. Anti-procathepsin D antibodies as an indicator of clinical outcome in breast carcinoma. 10th Kentucky Innovatgion & Entrepreneurship Conference, Louisville, KY, September 5, 2014
205. Svozil, V., Richter, J., Vetvicka, V., Rajnohova-Dobiasova, L., Kral, V. Complex therapy (climatotherapy, speleotherapy, immunotherapy) in children with chronic respiratory problems. XV International symposium of speleotherapy, Poland 2014
206. Richter, J., Kral, V., Vetvicka, V., Svozil, V., Pohorska, J., Stiborova I., Rajnohova-Dobiasova, L. Zivotni prostredi a sliznicni imunita – stale aktualni tem. ALERGIE, XIV. Kongres ceskych a slovenskych imunologu, Czech Republic 2014
207. Vetvicka V.: Combination therapy with beta-glucan and coenzyme Q10 in murine experimental autoimmune disease and cancer. *Am. Soc. Pharmacognosy*, July 21-25, Lexington, KY, p. 38
208. De O. Roberti Filho, F., Brunnetoo, M.A., Vetvicka V.: Beta glucans effects in pets: benefits and possible applications. *Petfood Forum*, Bangkok, Thailand, 3/28, 2018.
209. Vetvicka V, Vasicek R.: Comparison of immunological effects of commercially important β -glucans. *Vitafoods Europe*, May 15-17th, 2018, Geneva, Switzerland

d. Poster Presentations: Local/Regional Meetings

N/A

L. Patents

- Yvin, J.C., Vetvicka, V.: Therapeutical treatment, **US Patent # 6,660,722**
- Yvin; J.C, Panak; E., Vetvicka; V.: Therapeutical combination against cancer **US Patent # 7,070,778**
- Yvin; J.C, Panak; E., Vetvicka; V.: Therapeutical combination against cancer **EU Patent # 200500925250**

- Yvin, J.C., Vetvicka, V.: Chemotherapeutic antineoplastic treatment, **Patent Number: 7,671,040**
- Yvin, J.C., Vetvicka, V.: Chemotherapeutic antineoplastic treatment, **EU Patent # 20050065111**
- Yvin, J.C., Jamois, F., Vetvicka, V.: Therapeutical treatment with oligo-beta-(1,3)-glucans, dryg used in said treatment. **EU Patent # 20050065114**
- Vetvicka, V., Fusek, M.: Method for inhibition of breast tumor growth, **US Patent # 5,800,814**
- Yvin, J.C. Descroix, K., Ferrieres, V., Jamois, F., Laurent, I., Vetvicka, V.: Oligo-beta-(1,3)-glucan-(1,3)-mannose, oligo-beta-(1,3)-glucane-(1,3)-mannitol and derivatives thereof for treating diseases of the immune system, methods for preparing the same and drugs containing them. **EU Patent # EP 2102222**
- Yvin, J.C., Panak, E., Vetvicka, V.: Oligo-beta-(1,3)-glucan and monoclonal antibodies against cancer. **EU Patent # EP1684770**
- Yvin, J.C., Jamois, F., Vetvicka, V.: Pharmaceutical composition and therapeutic treatment with oligo-beta-(1,3)-glucans. **EU Patent EP1663258**
- Yvin, J.C. Descroix, K., Ferrieres, V., Jamois, F., Laurent, I., Vetvicka, V.: Use of modified oligo-beta-(1,3)-glucans for treating diseases of the immune system, oligo-beta-(1,3)-glucan-(1,3)-mannose, oligo-beta-(1,3)-glucan-mannitol and derivates thereof, methods for preparing them and medicaments containing them. **US Patent # 8,367,641**
- Yvin, J.C., Vetvicka, V.: Use of laminarin in the treatment of cancer. **EU Patent # EP1448215**
- Vetvicka, V., Fusek, M., Zidkova, J. Systems and methods for diagnosis and prognosis of cancer, **US Patent # 8,852,870**

M. Research Funding

- 1992-1994 The Phi Beta Psi Sorority,
"Immunosuppressive Effects of 5-Fluorouracil, an Anti-Cancer Drug",
 Principal Investigator
- 1993-1994 Grant Agency of the Czech Republic IG-00310
"The Effects of Cold on Immunity",
 Co-Principal Investigator.
- 1993-1994 American Heart Association
"Complement Inhibitors and Prevention of Ischemia/Reperfusion Injury of Myocardial and Skeletal Muscle",
 Co-Investigator
- 1993-1998 NIH
"Regulation of Phagocyte and NK Cell C3-Receptor Function",
 Co-Investigator

- 1994-1999 The Phi Beta Psi Sorority,
"Pro-Cathepsin D in Breast Cancer",
Principal Investigator
- 1996-1997 Intramural Research Incentive Grant,
The Role of Procathepsin D in Stimulation of Human Breast Cancer Cells,
Principal Investigator
- 1996-1997 Pardee Foundation,
Procathepsin D and Human Breast Cancer,
Principal Investigator
- 1997-1998 Abbott Laboratories, Cooperative Research Agreement,
Co-Investigator
- 11/97-10/98 Grant-In-Aid Program, School of Medicine,
Use of Synthetic Fragments in Study of Procathepsin D Binding to Cancer Cells,
Principal Investigator
- 1999-2002 U.S. Army Breast Cancer Research Program,
Procathepsin D Stimulation of Human Breast Cancer Cell Growth,
Principal Investigator
- 1999-/2004 NIH,
Targeting of Phagocyte and NK Cell CR3 to Tumor-Bound iC3b,
Co-Investigator (15% Effort)
- 1999-2001 The Phi Beta Psi Sorority,
"Pro-Cathepsin D in Prostate Cancer",
Principal Investigator
- 2001-2005 American Cancer Society Grant,
Development of Procathepsin D Fragments for Breast Cancer Screening and Therapy,
Principal Investigator
- 2002-2004 Kentucky Lung Cancer Grant Research Program,
"Inhibition of Procathepsin D Secretion in Lung Cancer Treatment";
Principal Investigator
- 2002-2008 NIH,
GRTN020217
"Regulation of Breast Cancer Growth by Activation Peptide of Procathepsin D", Principal Investigator (100% Effort)

- 2000-2007 Goemar Laboratories, France,
Cooperative Research Agreement
Principal Investigator
- 2003-2015 Tradeworks, North Caroline,
Cooperative Research Agreement,
Principal Investigator
- 2004-2009 Elefant, Prague, Czech Republic,
Cooperative Research Agreement,
Principal Investigator
- 2006-2017 Biorigin, Brazil,
Cooperative Research Agreement,
Principal Investigator
- 2007-2016 Roullier Laboratories, France,
Cooperative Research Agreement,
Principal Investigator
- 2009-2012 NIH, "*Regulation of immune reactions by synthetic thioglucans*",
OGMB090473
Principal Investigator, (100 % Effort, 50% Collaboration), \$373,383
- 2008-2009 Kentucky Lung Cancer Grant Research Program,
OGMB081168
"*Inhibition of Procathepsin D: A Novel Anti-Lung Cancer Agent*";
Principal Investigator. (100 % Effort, 0% Collaboration), \$50,000
- 2010-2011 University of Louisville School of Medicine grant program,
Procathepsin D in serum of cancer patients;
Principal Investigator. (100 % Effort, 0% Collaboration), \$15,000
- 2012-2014 Kentucky Fund – Use of anti-procathepsin D autoantibodies for screening
of breast cancer,
OGMB130270, Principal Investigator, 100%, 0% Collaboration, \$100,000
- 2015-2017 BARD Foundation, Evaluation of effects of glucan in mushroom, 100%
effort, 50% collaboration, \$175,000

N. Clinical Service

N/A

O. Publications, Book Chapters, Monographs and Textbooks

a. Peer-reviewed

Articles Published in Peer-Reviewed Journals:

1. Vetvicka, V., Zeleny, V., Viklicky, V.: Cell surface changes of the mouse peritoneal macrophages after proteose peptone or thioglycollate induction, *Fol. Biol.*, 25:156-168, 1979. (IF = 0.99)
2. Vetvicka, V., Viklicky, v., Jaroskova, L., Kopecek, J.: Comparison of functional activity of normal and stimulated PEC in suspension and after adherence to the substrate, *Fol. Biol.*, 25:403-404, 1979. (IF = 0.99)
3. Vetvicka, V., fornusek, L., dlabac, V., Lokaj, J., Viklicky, V.: Makrofág - aktivace nebo stimulace? *Imunol. Zpravodaj*, 11:22-25, 1980 (in Czech).
4. Fornusek, L., Vetvicka, V., Petelikova, J.: účinek redidel pro dlouhodobé uchování na akrosomy braních spermii, *Vet. Med.*, 26:213-221, 1981 (in Czech).
5. Vetvicka, V., Fornusek, L., Tlaskalova, H.: Comparison of different methods for separation of human, mouse and rat macrophages and lymphocytes, *Fol. Biol.*, 27:194-202, 1981. (IF = 0.99)
6. Fornusek, L., Vetvicka, V., Kopecek, J.: Differences in phagocytic activity of methacrylate copolymer particles in normal and stimulated macrophages, *Experientia*, 37:418-420, 1981. (IF = 1.50)
7. Fornusek, L., Vetvicka, V., Kopecek, J.: Fabocytóza leukocytu periferní krve: nova jednoduchá metoda, *Imunol. Zpravodaj*, 13:67-68, 1982 (in Czech).
8. Vetvicka, V., Fornusek, L., Kousalova, M.: Mobility of different lectin receptors on the plasma membrane of peritoneal macrophages and thymocytes, *Fol. Biol.*, 28:74-79, 1982. (IF = 0.99)
9. Fornusek, L., Vetvicka, V.: Co je indukovaný makrofág? *Biol. Listy*, 47:253-263, 1982 (in Czech). (IF = 0.62)
10. Vetvicka, V., Fornusek, L., Kopecek, J., Kamikova, J., Kasperek, L., Vranova, M.: Phagocytosis of human blood leukocytes: a simple micromethod, *Immunol. Letters*, 5:97-100, 1982. (IF = 2.51)
11. Vetvicka, V., Viklicky, V.: Limited mobility of membrane receptors of proteose peptone stimulated or adhered macrophages, *Immunology*, 163:22-30, 1982. (IF = 3.30)
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13. Kaminkova, J., Fornusek, L., Vetvicka, V., Rihova, B., Kasperek, L., Vranova, M., pekarek, J.: Vliv prenosového faktoru na fagocytózu a humorální imunitu u dětí s recidivujícími zanety středousí, *Cas. Lekarů Ceských*, 122:1577-1579, 1983 (in Czech).
14. Tlaskalova-Hogenova, H., Sterzl, J., Stepankova, J., Dlabac, V., Vetvicka, V., Rejnek, J., Rossmann, P., Trebichavsky, I., Kopecek, J.: Development of immune

- capacity in germfree and conventional conditions, *Ann. New York Acad. Sci.*, 409:96-113, 1983.(IF = 2.67)
15. Tlaskalova, H., Kopecek, J., Pospisil, M., Rihova, B., Novak, M., Hofman, J., Vetvicka, V.: Immune response to different bacterial and synthetic antigens, *Dev. Comp. Immunol.*, 7:743-744, 1983. (IF=3.29)
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 19. Rossmann, P., Vetvicka, V., Zidkova, J.: C3b receptors on the cell membranes of the stimulated mouse macrophages. An immnohistochemical study, *Cell Biol. Int. Rep.*, 7:1041-1048, 1983. (IF=1.75)
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