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CURRICULUM VITAE

Mariusz Z. Ratajczak, M.D., Ph.D., D.Sci. *d.hc*.

ADDRESSES

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PLACE OF BIRTH Szczecin, Poland

CITIZENSHIP American, Polish

EDUCATION

1989	**D.Sci**.	Habilitated Doctor in Internal Medicine Central Clinical Hospital WAM, Warsaw, Poland; based on published papers and prepared thesis: "*Changes in the biochemical parameters related to the bone marrow transplantation. Clinical and experimental studies*."
1986	**Ph.D**.	Experimental Hematology, Polish Academy of Sciences, Warsaw, Poland; based on the dissertation: "*Fetal liver as a source of hematopoietic stem cells for transplantations. Experimental and technical aspects.*"
1981	**M.D.**	Pomeranian School of Medicine, Szczecin, Poland; Diploma Magna cum laude; first in the class (among 280 students).

POSTGRADUATE TRAINING

1989-1992	Research Fellowship	University of Pennsylvania, Philadelphia, USA
1984-1986	Research Fellowship:	Polish Academy of Sciences, Warsaw, Poland
1984-1989	Residency:	CSK WAM, Warsaw
1986	Board Certification	Internal Medicine, Poland
1981-1984	Internship:	Pomeranian Medical School, Szczecin, Poland

ACADEMIC APPOINTMENTS

2018 -	Profesor	Director Stem Cell Institute, Division of Hemtology/Oncology, Department of Medicine, James Graham Brown Cancer Center, University of Louisville, Louisville, USA
2015-	Visiting Professor	Department of Regenerative Medicine Warsaw Medical University, Warsaw, Poland
2007 - 2018	Professor	Director Stem Cell Institute, James Graham Brown Cancer Center, University of Louisville, Louisville, USA
2007-	Visiting Professor	Kansai University, Osaka, Japan.
2008-	Visiting Professor	Fudan University, Shanghaj.
2006- 2014	Professor	Department of Physiology, Pomeranian, Medical University, Poland.
2002–	Professor	Department of Microbiology and Immunology, University of Louisville, KY, USA
2001 - 2007	Director	Stem Cell Biology Program, James Graham Brown Cancer Center, Louisville
2001–	Professor	Medicine, Department of Medicine, University of Louisville, Louisville
1999 - 2005	Professor	Head of Department of Transplantology at Polish-American Children's Hospital, CMUJ, Krakow, Poland
2000–2001	Research Associate Professor	Department of Pathology & Lab. Medicine, University of Pennsylvania School of Medicine, Philadelphia
1999–2000	Research AssociateProfessor	Medicine, Department of Medicine, University of Pennsylvania School of Medicine, Philadelphia
1998–1999	Research Assistant Professor	Medicine, Department of Medicine, University of Pennsylvania School of Medicine, Philadelphia
1996–1998	Research Assistant Professor	Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia
1992–1995	Senior Researcher Investigator	Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia
1989–1994	Associate Professor	Internal Medicine, Center for Clinical and Experimental Medicine, Polish Academy of Sciences, Warsaw
1986–1989	Research Adjunct	Center for Clinical anExperimental Medicine, Polish Academy of Sciences, Warsaw
1981–1984	Research Assistant	Department of Clinical Gastroenterology, Pomeranian School of Medicine, Szczecin

AWARDS AND HONORS

2014	Karl Landsteiner Life Achievement Award from the German Society of Transfusiology and Hematotherapy for discovery of VSELs and for identification of new mechanisms regulating stem cell mobilization.
2009- now	Visitng Professor, Kansai University, Osaka, Japan
2010	Honorary Professorship, Ji Nan University, Guangzhou, China
2008	Distinguished Faculty Award for Outstanding Scholarship and Research from the President of the University of Louisville.
2008	Doctor honoris causa from the Medical University of Silesia.
2008	Foreign Member of the Polish Academy of Art and Science
2007	Mosaic Award from Jewish Family and Vocational Service.
2006 – now	Visiting Professor Fudan University, Shanghai, China.
2006	The Annual Award in Medicine and Biology from The Foundation for Polish Science (The highest scientific award in Poland).
2006	Hoening Endowed Chair in Cancer Biology at James Graham Brown Cancer Center, University of Louisville, Ky
2005	Sniadecki Award from Polish Academy of Sciences
2004	Individual Award from Polish Ministry of Health for Scientific Achievements
2002	Chad Kopple Spirit Award from the Leukemia & Lymphoma Society
2001	Honorary Member of Polish Society of Cytobiology and Histochemistry
1986	Ph.D. thesis with Award
1981	M.D. *magna cum laude* – first in class of 280 students
1980	Nicolaus Copernicus Award from Polish Ministry of Health
1979	Special Award for Young Student Scientists from Polish Academy of Sciences

MEDICAL & SCIENTIFIC SOCIETY MEMBERSHIPS

2008-	Foreign Member of the Polish Academy of Art and Science
2007-	Polish Academy of Sciences Committee for Pathophysiology
1999-	International Society of Experimental Hematology
1999–	American Society for Cancer Research
1997– 2006	Polish Academy of Sciences, Committee for Tissue Culture & Molecular Pathology
1993–	American Society of Hematology
1986– 2005	Polish Academy of Sciences, Committee for Experimental Hematology,
1981–	Polish Medical Society

EDITORIAL POSITONS

Current:

1997-present	*Stem Cells*, Editorial Board
2003-present	Editor, *Central European Journal of Biology*
2004-present	*Journal of Cellular and Molecular Medicine*, Editorial Board
2005-present	*Journal of Applied Genetics*, Editorial Board
2014-present	Editor, *Journal of Cancer Stem Cells Research*
2015-present	Editor, *Folia Histochemica et Cytobiologica*
2015-present	*Cell Transplantation*, Editorial Board.
2015-present	*Leukemia*, Associate Editor
2016-present	*Clinical and Tranlational Medicine*, Section Editor
2016-present	Editor-in-Chief, *Stem Cell Reviews & Reports*

Past: 2008-2012 Consulting Editor, *Journal of Clinical Investigation*, 2006-2014 Section Editor *Leukemia*, 2012-2014 Associate Editor *Journal of Blood Cancer*. 2008–2010, Assoc. Editor, *Experimental Hematology*,

Reviewer for: *Science, Journal of Clinical Investigation, Blood, Proceedings of National Academy of Sciences USA, Journal of Cell Biology, Cancer Research, Molecular cancer Research, Experimental Cell Research, Experimental Hematology, Stem Cells, Leukemia, Nucleic Acids Research, Experimental Neurology*

Grant Study Sections:

2008 - 2009 National Institute of Health – Hematopoiesis Study Section – standing member
2010 - 2012 National Institute of Health – Molecular and Cellular Hematology – standing member
2017-2022 National Institure of Health, T32 PhD Training Grant Study Section

Ad hoc:
2017 - National Heart, Lung and Blood Institute, Molecular and Cellular Hematology – ad hoc
2016 - National Heart, Lung and Blood Institute, Molecular and Cellular Hematology – ad hoc
2015 - National Heart, Lung and Blood Institute, Molecular and Cellular Hematology – ad hoc
2014 -- National Heart, Lung and Blood Institute, Molecular and Cellular Hematology – ad hoc
2013- National Institute of Health, Tumor Microenvironment Study Scetion – ad hoc
2008- National Institute of Health, Intercellular Interactions Study Section – ad hoc
2007- National Heart, Lung and Blood Institute, Hematopoiesis Study Section – ad hoc
2006- National Heart, Lung and Blood Institute, Hematopoiesis Study Section – ad hoc
2006- National Institute of Helath, Hematopoiesis Special Panel – ad hoc
2005 - National Heart, Lung and Blood Institute, Hematopoiesis Study Section Special Panel
2005- National Heart, Lung and Blood Institute, Hemostasis/Thromb. – ad hoc
2005- National Heart, Lung and Blood Institute, Stem Cell Therapy Centers
2004- National Cancer Institute Review Group, Clinical Studies

GRANT SUPPORT

NIH 2R01DK07420-10 07/31/17-06/30/21
(PI: Ratajczak, MZ)
"Novel mechanisms involving complement cascade in stem cell trafficking".

The aim of this study is to investigate a role of complement in homing and mobilization of hematopoietic stem cells.

NIH T32 HL134644-01A1 (contact PI: Ratajczak MZ) 05/01/18-04/31/22
"Current Trends in Stem Cell Therapies"
The aim of this grant ro train postdoc in area of stem cell research and regenerative medicine.

NIH 1R01HL112788-01A1 (PI: Ratajczak, MZ) 03/31/17-02/28/19
Bioactive Lipids in Stem Cell Homing and Mobilization
The role of bioactive lipids S1P and C1P in homing and mobilization of HSPCs.
No cost extension

Past Research Support (past three years)

NIH 1 R01: DK07420 03/01/07-02/29/17
Ratajczak, MZ (PI)
Novel hematopoietic effects of C3 cleavage fragments.

NIH 2P0IHL078825-06 07/01/11-05/31/16
(PI: Bolli R)
Protection of Ischemic Myocardium- CORE C

NeoStem, Inc 1R43AI098325-01 12/01/11-02/28/14
(PI: Rodgerson D)
Development of Human, Autologous, Pluripotent Very Small Embryonic Like (VSELs) Stem Cells as a Countermeasure to Radiation Threat.

INVITED LECTURES (selected)

September 23, 1992. "Antisense oligodeoxynucleotides as probes for studying human hematopoiesis". Jahrestagung der Deutschen Gesellschaft fuer Haematologie und Onkologie, Berlin, Germany.

June 9, 1993. "Antisense strategy. The perspectives of therapeutical use of antisense oligomers in the treatment of human leukemias. Symposium in memory of Rudolf Virchow, Szczecin, Poland.

June 14, 1993. "The role of receptors with intrinsic tyrosine kinase activity in regulation of normal human haematopoiesis. V Annual Conference on Cell Biology, Wroclaw, Poland.

June 22, 1994. "Molecular mechanisms of the regulation of the human erythropoiesis.Clinical implications". Conference of the Polish Society of Haematology and Transfusiology,. Wroclaw.

June 26, 1994. "Oligodeoxsynucleotide-based therapeutics of human leukemias." 1st Berlin Symposium on the application of molecular biology to cancer patients. Berlin, Germany.

October 22, 1994. "Isolation, storage and expansion of CD34+ bone marrow cells. Transplantological implications ". Conference on Bone Marrow Transplantation in Poland, Warsaw, Poland.

March 15, 1995. "Oligonucleotide therapeutics for human leukemias." Antisense Therapy - International IBC. Conference. Charing Cross Medical School, London, UK.

April 12, 1995. "Oligonucleotide therapeutics for human leukemias." The Treatment of Cancer: Beyond Chemotherapy. IBC International Conference, London, UK.

June 14, 1995. “Molecular mechanisms regulating the proliferation of the earliest human hematopoietic cells." XVI Meeting of Polish Society of Haematology and Transfusiology. Warsaw, Poland.

November 14, 1995. "Contemporary methods of investigation of the molecular mechanisms regulating the proliferation and differentiation of human hemopoietic stem and progenitor cells". 3rd Annual Meeting of The Polish Section of the European Cell and Tissue Culture Society. Krakow, Poland.

June 22, 1996. “The biology of human hematopoietic stem cells. Transplantological implications”. Annual Meeting on Bone Marrow Transplantation, Poznan, Poland.

September, 24, 1996. “The role of receptors possessing intrinsic tyrosinekinase activity in regulating biology of the human earliest hematopoietic cells”. International Conference on Cellular Interactions, Poznan, Poland.

September, 24, 1996. ”The pathogenesis of the anemia of chronic disorders”. International Conference on Cellular Interactions, Poznan, Poland.

June 19, 1997. “The biology of human hematopoietic stem and progenitor cells”. 2nd Symposium of Tissue Cultures of Central European Countries, Krakow, Poland.

June 19, 1997.”The new trends for isolating and ex vivo expanding of human early hematopoietic cells. Clinical implications.” 2nd Symposium of Tissue Cultures of Central European Countries, Krakow, Poland.

September 17, 1997. “The application of FACS for studying expression of the intracellular proteins”. Annual Conference on Advances of Cytometry in Clinical Medicine. Poznan, Poland.

September 17, 1997. “The application of FACS for isolating human earliest hematopoietic cells”. Annual Conference on Advances of Cytometry in Clinical Medicine. Poznan, Poland.

September 24, 1997. “A new strategies for isolating and ex vivo expanding of human early hematopoietic cells. Clinical implications”.XVIIth Congress of the Polish Society of Hematology and Transfusiology. Krakow, Poland.

May 13, 1998. “Isolation of human hematopoietic stem cells” Puget Sound Blood Center, Seattle, University of Washington.

August 13, 1998. “New strategies for isolating human earliest hematopoietic cells”. Center for Gene Therapy, Allegheny University, Philadelphia.

September 25, 1998. “The role of chemokines in HIV infection”. Annual Conference of the Polish Histochemical Society, Szczecin, Poland.

October 6, 1998. “Hunting for the stem cells” University of Pennsylvania, Hematology/Oncology Research Conferences, Philadelphia.

May 11, 1999. "New strategies for isolation and ex vivo expansion of early human hematopoietic cells". Coriell Institute, Camden.

June 24, 1999. "Influence of HIV infection on human hematopoiesis. Clinical implications". XVIII Meeting of the Polish Society of Haematology. Lodz, Poland.

November 2, 1999. "Of CD34+ cells and HIV" University of Pennsylvania, Hematology/Oncology Research Conferences, Philadelphia.

September 11, 2000. "Of $CD34^+$ cells and HIV". University of Louisville, Louisville, KY.

September 17, 2000. "New strategies to ameliorate posttransplant related thrombocytopenia" – Plenary lecture - Annual Conference of Polish Society of Hematology, Warsaw, Poland.

March 4, 2002. "The role of CXCR4-SDF-1 axis in hematopoiesis", Jewish Hospital, Louisville, Ky.

August 8, 2002. "CXCR4 – one receptor many functions", Purdue University, West Lafayette, IN.

May 29, 2003. "The role of circulating stem cells in regeneration", Plenary lecture – Annual Meeting of Polish Society of Hematology, Krakow, Poland.

June 18th, 2003. "Priming of SDF-1–CXCR4 axis: a new strategy to improve engraftment of hematopoietic stem cells." American Red Cross Holland Laboratories, Rockville, MD.

October 23rd, 2003. "The role of SDF-1-CXCR4 axis in circulation of tissue committed stem cells" Plenary lecture at 1st Annual Meeting of European Stem Cell Therapeutic Excellence Center, Cracow, Poland.

December 18th, 2003. "Tissue-committed early muscle, liver and neural cells reside in the bone marrow and can be isolated by chemotactic gradients to SDF-1, HGF/SF or LIF: A new perspective on plasticity of bone marrow-derived stem cells and aging." Plenary lecture at 2nd International Meeting on Stem Cells, Beijing, China.

January 12th, 2004. "A new perspective on plasticity of bone marrow-derived stem cells and aging". SCIRC Louisville, KY

May 16th, 2004. "Tissue committed stem cells reside in the bone marrow: novel insights into the "plasticity of adult stem cells" and the aging process. Plenary lecture at "From oocytes to stem cells. Progress in basics and applications". Prague, Czech Republic.

May 18th, 2004. "Microparticles and their effects on stem cells." Plenary lecture at 8th European Symposium on Platelet and Granulocyte Immunobiology, Rust, Burgenland, Austria.

June 7th, 2004. "Are stem cells plastic or heterogenous – that is the question." – Plenary lecture at 2nd Annual Meeting of European Stem Cell Therapeutic Excellence Center, Cracow, Poland.

July 20th, 2004. "Tissue committed stem cells (TCSC) are deposited in the bone marrow early during ontogenesis as a mobile pool of stem cells for tissue/organ regeneration. A new insight into the phenomenon of stem cell plasticity and aging". Presidential Symposium at 33rd Annual Meeting of the International Society of Experimental Hematology, New Orleans.

September 29th, 2004. "Are bone marrow stem cells plastic or heterogenous?" – Invited Speaker and Visiting Professor, Roger Williams Hospital and Cancer Center, Providence.

October 30th, 2004. "Bone marrow as a source of circulating $CXCR4^+$ tissue committed stem cells for cardiac regeneration." The 9th Myocardial Ischemia Symposium 2004. Seoul, Korea.

December 17th, 2004. "Are bone marrow stem cells plastic or heterogenous – that is the question". 3rd International Symposium on Hematopoietic Stem Cell Transplantation in Children. Poznan, Poland.

January 21st, 2005. "Incorporation of CXCR4 into membrane lipid rafts primes homing-related responses of hematopoietic stem/progenitor cells to an SDF-1 gradient." 5th International Workshop on Non-meyloablative Stem Cell Transplantation. Cancun, Mexico.

February 15th, 2005. "A novel insight into cancer metastasis" University of Alberta, Cross Cancer Institute, Edmonton, Canada.

March 3rd, 2005. "Are Bone Marrow Stem Cells Plastic or Heterogenous – That is the Question". Cancer Center at University of Indiana, Indianapolis, USA.

April 6th, 2005. "Bone Marrow as a Home of Heterogenous Populations of Nonhematopoietic Stem Cells". Harvard Medical School Boston, USA.

April 15th, 2005. "Are Bone Marrow Stem Cells Plastic or Heterogenous – That is the Question". European School of Hematology, Cascais, Portugal.

May 19th, 2005. "Stem cells our key to longevity" – Opening lecture – XII Meeting of the Polish Society of Experimental and Clinical Immunology, Lublin, Poland.

June 27th, 2005. "Isolation of cardiac progenitors from bone marrow and mobilized peripheral blood using flow sorting capabilities" – Plenary lecture at International Meeting "New Frontiers in

Cytometry", Moscow, Russia.

September 11th, 2005. "Bone marrow as a source of non-hematopoietic stem cells". Meeting of the Polish Society of Hematology and Transfusiology. Wisla, Poland.

September 18th, 2005. "Nonhematopoietic bone marrow-derived stem cells" – Invited Lecture 67th Annual Meeting of the Japanese Society of Hematology (JSH) and the 47th Annual Meeting of the Japanese Society of Clinical Hematology (JSCH) in Yokohama, Japan.

September 21st, 2005. "A population of embryonic-like stem cells identified in human bone marrow" Kansai University, Osaka, Japan.

October 7th, 2005. "Normal Stem Cells "Jedi" that went over to the "dark side". Plenary lecture at 3rd Annual Meeting of European Stem Cell Therapeutic Excellence Center, Cracow, Poland.

November 4th, 2005. "UCB Hematopoietic Stem Cell Homing: Implications for Engraftment". Case Western Reserve University. Cleveland, USA.

March 2nd, 2006. "VSEL – very small embryonic like stem cells". Southern Society for Clinical Investigation, Atlanta, USA.

March 23rd, 2005. "Stem cells our key to longevity". Polish Academy of Sciences, Warsaw, Poland.

April 24th, 2006. "Adult bone marrow derived very small embryonic like (VSEL) stem cells". Annual Canadian Blood and Marrow Transplant Group Meeting, Edmonton, Canada.

May 24th, 2006. – "Novel biological aspects of bone marrow stem cells". The 10th ESH-EBMT Training Course on Blood and Marrow Transplantation, Warsaw, Poland.

June 5th, 2006. – "In vivo and in vitro evidence that the third complement component (C3) cleavage fragments enhance platelet production during reactive thrombocytosis". 3rd Annual Innate Immunity Meeting, Corfu, Greece.

June 10th, 2006. – "Stem cell therapies a key to longevity" XXII Annual Congress "Fetus as a patient". Poznan, Poland

June 15th, 2006. – "Very small embryonic like stem cells" – University of Illinois. Chicago, USA.

June 24th, 2006. – "Stem cell plasticity – new paradigms" – Medical College of Georgia, Augusta, USA.

August 1st, 2006. – "Very small embryonic like (VSEL) stem cells – our key to longevity. Blood Center Milawukee, USA.

September 15th, 2006. "Physiological and patho-physiological consequences of circulation of very small embryonic like (VSEL) stem cells". XXIII Annual Meeting of Polish Physiological Society. Inauguration lecture, Warsaw, Poland.

September 19th, 2006 – "Very small embryonic like (VSEL) stem cells – our key to longevity and passkey to cancerogenesis". Alfried Krupp Tumorbiology Conference, University of Greifswald, Greifswald, Germany.

October 6, 2006. –"VSEL our key to longevity", Biology and Clinical Applications of Mesenchymal Stem Cells. Mandelieu La Napoule, France.

October 10, 2006. – "Non-hematopoietic bone marrow-derived stem cells". 21 Annual Clinical Cytometry Society Meeting, Long Beach, CA, USA.

October 23, 2006 – "A role of SDF-1-CXCR4 axis in stem cell mobilization, trafficking and homing". Fudan University, Shanghai, China.

October 24, 2006 – "A role of bone marrow in organ/tissue regeneration". Fudan University, Shanghai, China.

October 26, 2006 – "The role of SDF-1-CXCR4 axis in developmental migration of normal stem cells and metastasis of cancer stem cells". Fudan University, Shanghai, China.

November 1, 2006 – "Physiological and Pathological Consequences of Very Small Embryonic Like (VSEL) Stem Cells in Adult Bone Marrow". Lerner Research Institute, Cleveland, OH.

November 8th, 2006 - "Physiological and Pathological Consequences of Very Small Embryonic Like (VSEL) Stem Cells in Adult Bone Marrow". Medical College of Georgia, Augusta, GA.

November 20st, 2006. – "Very small embryonic like (VSEL) stem cells – our key to longevity. University of Pennsylvania, Philadelphia, PA.

January 9th, 2007 – "Embryonic like stem cells in adult tissues". Case Western Univ., Cleveland, OH

January 18th, 2007 – "The role of complement in homing and mobilization of stem cells" – Univ. of Greifswald, Greifswald, Germany.

January 26th, 2007 – "Physiological and pathological consequences of a presence of circulating very small embryonic-like stem cells". University of Dresden, Dresden, Germany.

January 31st, 2007 – "SDF-1-CXCR4 axis as regulator of stem cell trafficking". Med. Coll. Wisconsin, Milwaukee, WN.

February 13th, 2007 – "Hetreogenous populations of stem cells reside in the bone marrow: which therapeutic implications?" "Normal and malignant stem cells 2007", Collegio Ghislieri, Pavia, Italy.

February 22nd, 2007 – "A hypothesis for an embryonic origin of pluripotent Oct-4+ stem cells in adult bone marrow and other tissues". University of Florida, Gainesville, FL.

March 15th, 2007 – "A hypothesis for an embryonic origin of pluripotent Oct-4+ stem cells in adult bone marrow and other tissues". Univ. of Michigan, Ann Arbor, MI

April 28th, 2007 – "Stem cells and stem cell plasticity – fact or artifact?" – University of Southern Indiana, Evansville, IN.

May 23rd, 2007 – "VSEL and heart regeneration" – 5th EuroPCR Meeting, Barcelona, Spain.

June 14th, 2007 – "The role of complement in stem cell trafficking". IV Innate Immunity Meeting, Porto Heli, Greece.

June 26th, 2007 – "The identification of embryonic like SSEA+ OCT-4+ CXCR4+ stem cells in adult bone marrow and cord blood". Plenary lecture at 13th Annual Meeting of the International Society for Cellular Therapy".

July 25th, 2007 – "The role of complement system in trafficking of stem cells". International stem cell meeting. Foz do Iguassu, Brazil.

September 6th, 2007 – "Stem cells key to longevity" - Plenary lecture at Annual Meeting of Polish Society of Pediatric Endocrinology, Cracow, Poland.

September 7th, 2007 – "Stem cells in regenerative medicine" – Plenary lecture at Pomeranian Alergology Symposium, Szczecin, Poland.

September 19th, 2007 – "The role of bone marrow-derived stem cells in regenerative medicine – new paradigms and future directions" – Plenary lecture at 2nd Annual Congress of Genetic, Warsaw, Poland.

September 24th, 2007 – "Adult bone marrow - and cord blood-derived very small embryonic like stem cells" – Plenary lecture at International Meeting on Regeneration, Mulhouse, France.

October 6th, 2007 – "Very small embryonic-like (VSEL) stem cells – implications for aging". Plenary lecture at European Conference on Cancer and Aging "Seneca 2007", Warsaw, Poland.

October 8th, 2007 – "Stem cells our key to longevity". Opening Lecture at the Central Inauguration of Academic Year of the Medical Schools in Poland. Katowice, Poland.

October 13th, 2007 – "Stem cells in regenerative medicine" – Plenary lecture at Annual Meeting of the Polish Gynecological Society. Lublin, Poland.

October 19th, 2007 - "Identification of very small embryonic like (VSEL) stem cells in cord blood". Invited talk at Annual European Cord Blood Meeting, Paris, France.

October 27th, 2007 – "A hypothesis for an embryonic origin of pluripotent Oct-4+ stem cells in adult bone marrow and other tissues". Plenary lecture at the 21st Century Center of Excellence Meeting, Osaka, Japan.

November 26th, 2007 – "Stem cell plasticity – revised". Jewish Hospital Louisville, KY

December 5th, 2007 – "Bone marrow-derived stem cells". Kentucky Lion Eye Clinic Louisville, Ky.

January 26th, - "Small cells in bone marrow". Graft versus Host – Graft versus Leukemia symposium, Bad Aibling, Germany.

February 17th, 2008 - "Identification of VSEL stem cells in adult tissues". Plenary leture at ABBMT Tandem Meeting. San Diego, CA

February 23rd, 2008 – "Hypothesis for embryonic deposition of VSEL in adult tissues". Plenary lecture at the symposium "Stem Cells: from Bench to Bedside"- organized by Swiss Institute for Stem Cell Biology. Zurich, Switzerland.

April 18th, 2008 – "A role of complement in homing and mobilization of stem cells". Plenary lecture at Polish School of Hematology, Cracow, Poland.

May 1st, 2008. – "Small cells with great potential". Derby Lecture at the University of Louisville, Louisville, Ky.

June 4th, 2008 – "Very small embryonic like stem cells in adult tissues" – 2nd Annual ESTOOL Meeting, Budapest, Hungary.

June 19th, 2008 – "Identification of pluripotent stem cells in adult tissues". XVII Stem Cell Meeting, Wilsede, Germany.

June 24th, 2008 – "The studies in various murine strains with defects in activation of complement cascade (CC) reveal both pivotal and peliotropic role of CC in mobilization of hematopoietic/stem progenitor cells. 5th International Conference on Innate Immunity. Chania, Greece.

August 23rd, 2008 – "Identification of very small embryonic like stem cells in adult tissues". XIII International Congress of Histochemistry and Cytochemistry, Gdansk, Poland.

September 1st, 2008 – "VSEL – physiological and pathological consequences". Ludwig Boltzmann Institute for Cancer Research, Vienna, Austria.

September 5th, 2008 – "The role of stem cells in aging". Annual Meeting of the Anti-Aging Society. Warsaw, Poland

September 8th, 2008 – "The identification of VSEL stem cells in adult organs". Opening lecture at the Annual Meeting of the Polish Society of Cell Biology and Biochemistry, Olsztyn, Poland.

September 15th, 2008 – "Stem cell therapeutics – hope and reality". EVG Meeting, Cracow, Poland.

September 18th, 2008 – "VSEL – newly discovered population of stem cells". 7th Stem Cell Meeting, Meersburg, Germany.

October 13th, 2008 – "Very small embryonic like stem cells (VSELs) identified in adult tissues". Thomas Jefferson University, Philadelphia, PA.

October 17th, 2008 – "Cord blood-derived VSELs" – 20th Anniversary Cord Blood Symposium, Mandelieu, France.

November 8th, 2008 – "Identification of very small embryonic like (VSEL) stem cells in adult tissues - physiological and pathological consequences" – 2008 Taiwan International Somatic Stem Cell Symposium, Taipei, Taiwan.

November 13th, 2008 – "Stem cells and regenerative medicine". Soochow University, Souzhou, China.

November 22nd, 2008 – "Future of stem cell therapies". Jagiellonian University, Cracow, Poland.

December 4th, 2008 – "The novel role of complement in stem cell trafficking". Thomas Jefferson University, Philadelphia, PA.

February 26th, 2009 – "The novel role of complement in stem cell homing and mobilization". University of Texas, Houston, TX.

April 13th, 2009 – "Stem cells our key to longevity" – New York Blood Center, NY.

April 21st, 2009 – "Very small embryonic like stem cells, characterization and biological relevance" Annual Experimental Biology Meeting, New Orleans, LA.

April 30th, 2009 – "Stem cells in regenerative medicine". Louisiana State University at Paddington, Baton Rouge, LA

June 6th, 2009 – "Optimization of Isolation and Further Molecular and Functional Characterization of SSEA-4^+/Oct-4^+/CD133^+/CXCR4^+/LIN$^-$/CD45^- Very Small Embryonic-Like Stem Cells (VSELs) Isolated from Umbilical Cord Blood." 7th Annual International Cord Blood Transplantation Symposium, Los Angeles, CA.

June 14th, 2009 – "Multilineage differentiation of small Oct-4^+ cells isolated from adult tissues". Weizmann Institute, Rehovot, Israel.

June 15th, 2009 – "Adult Tissues-derived Very Small Embryonic Like (VSEL) Stem Cells – Characterization, Developmental Origin and Biological Significance", 3rg Israeli Stem Cell Meeting, Tel Aviv, Israel.

June 19th, 2009 – "Stem Cell therapeutics – hope and dangers". XVIII Congress of Polish Society of Hematology and Transfusiology, Wroclaw, Poland.

June 23rd, 2009 – "The role of C5 complement component in stem cell mobilization". 6th Congress on Innate Immunity, Heraklion, Greece.

September 12th, 2009 – "Very Small Embryonic Stem Cells – further characterization". 3rd Meeting of European Vascular Biology Organization, Marseille, France.

September 17th, 2009 – "Stem cells and regenerative medicine" – 50th Congress of Polish Society of Gynecology, Lublin, Poland.

September 27th, 2009 – "Very Small Embryonic Like (VSEL) Stem Cells – Characterization, Developmental Origin and Biological Significance". Medical University of South Carolina, Charleston, SC.

October 23rd, 2009 – "VSELs and potential clinical applications". Nebraska University Medical College, Omaha, NE.

November 19th, 2009 – "VSELs – identification and biological role". 3rd International Meeting on Non-Hematopoietic Stem Cells. Tubingen, Germany

November 22nd, 2009 – Very Small Embryonic Like (VSEL) Stem Cells – Characterization, Developmental Origin and Biological Significance ". University of Ulm, Germany.

November 27th, 2009 - "Non-hematopoietic Stem Cells in BM" – International Bone Marrow Transplantation Conference. Warsaw, Poland.

January 22nd, 2010 – "Innate Immunity – an underappreciated conductor of stem cell trafficking" – Kentucky Lion Eye Clinic Louisville, Ky.

January 27th, 2010 – "Developmental Origin and Biological Significance of Oct-4+ Very Small Embryonic Like Stem Cells (VSELs) Isolated From Adult Tissues" – Yale University, New Haven CT.

February 18th, 2010 – "Very small embryonic like stem cells (VSELs) and regenerative medicine". University of WV, Morgantown, WV.

March 9th, 2010 – The role of complement cascade in stem cell trafficking. ISCT Univ. of Louisville, Louisville, Ky.

April 26th, 2010 - Novel View on Stem Cell Homing/Engraftment and Mobilization – Involvement of Complement Cascade – Translational Implications. University of West Virginia, Morgantown, WV.

May 14th, 2010 – VSELs and their potential clinical applications. 1st International Conference of Frontiers of Regenerative Medicine and Biomedical Science. Guangzhou, China.

May 26th, 2010 - Umbilical cord blood (UCB)-derived $CD45^{-}/SSEA\text{-}4^{+}/OCT\text{-}4^{+}/CD133^{+}/CXCR4^{+}/Lin^{-}$ very small embryonic/epiblast like stem cells (VSELs) - Potential Clinical Applications. 16th Presidential Symposium - Annual Meeting of International Society for Cellular Therapy. Philadelphia, PA.

June 3rd, 2010 – Umbilical cord blood-derived VSELs – an update. International Umbilical Cord Blood Transplantation Symposium. San Francisco, CA.

June 4th, 2010 – New strategies to accelerate engraftment/homing of UCB HSPCs. International Umbilical Cord Blood Transplantation Symposium. San Francisco, CA.

June 12th, 2010 – Future of Stem Cell Therapies. Opening Lecture - XIV Congress of Polish Society of Gastroenterology. Szczecin, Poland.

July 5th, 2010 – The role of complement system in stem cell mobilization. VII International Meeting on Innate Immunity. Rhodes, Greece.

July 14th, 2010 – VSELs – potential application in regenerative medicine. 3rd International Congress on Stem Cells and Tissue Formation. Dresden, Germany.

August 14th, 2010 – Potential application of VSELs in regenerative medicine. Burnham Institute, La Jolla, CA.

September 7th, 2010 – Very small embryonic like stem cells – a key for longevity and passkey for tumorigenesis. Feinstein Medical Institute, Manhasset, NY.

September 9th, 2010 – Umbilical Cord Blood derived VSELs- an update. 2nd International Symposium Stem Cells: from bench to bedside. Gmunden, Austria.

September 21st, 2010 – VSELs – origin, biology and clinical implications. 1st International Stem Cell Meeting on Neurogenesis. Sao Paulo, Brazil.

October 6th, 2010 – Future of Stem Cell Therapies. National Korean University, Seoul, Korea.

October 8th 2010 – Very small embryonic like stem cells isolated from adult tissues – origin, biological significance and potential applications. 22nd Annual Meeting of the Korean Society for Molecular and Cellular Biology, Seoul, Korea.

October 22nd, 2010 – VSELs - developmental origin and potential clinical applications. Keynote speaker at 18th Annual Research Celebration, Rhode Island Hospital, Providence, RI.

December 18th, 2010 – VSELs research – update and future directions. 3rd POIG Meeting, Warsaw, Poland.

December 27th, 2010 – Molecular signature and epigenetic mechanisms that regulate VSELs proliferation. Invited lecture at Fudan University, Shanghai, China.

December 28th, 2010 - The novel role of complement system and bioactive lipids in stem cell homing and mobilization. Invited lecture at Fudan University, Shanghai, China.

January 11th, 2011 - VSELs – an update. Neostem SAB, Boston, MA, USA..

February 18th 2011 - Pluripotent stem cells isolated from adult tissues. NYMC, Valhalla, NY, USA.

March 17th, 2011 – The role of complement and bioactive lipids in stem cell trafficking. Lion Eye Clinic, UofL, Louisville, KY, USA.

April 15th, 2011 - Pluripotent stem cells: iPS and VSELs Technology in Hematopoietic Regenerative Medicine. 2011 ASPHO Meeting, Baltimore, MD, USA.

April 22nd, 2011 – Pleiotropic effects of microvesicles. 1st International Symposium on exosomes. Providence, RI, USA.

May 26th, 2011 – Stem Cells in tissue organ regeneration. Opening lecture, Annual Meeting of Polish

Society of Psychiatry. Miedzyzdroje, Poland.

May 27th, 2011 – VSELs an update. 1st Baltic Stem Cell Meeting, Opening lecture. Szczecin, Poland.

June 8th, 2011 – Stem Cell Therapies, 75th Annual meeting of Polish-American Institute of Science. Washington DC, USA

June 27th, 2011 – The role of sphingolipids in stem cell trafficking. 6th Aegean Innate Immunity Meeting, Rhodes, Greece.

August 31st, 2011 – Very small embryonic like stem cells – our key to longevity and passkey to tumorigenesis. 5th SENS Aging Foundation Meeting, Cambridge, UK.

September 17th, 2011 – Stem cells and aging. XXV Meeting of Polish Society of Physiology, Olsztyn, Poland.

October 17th, 2011 – VSELs an update. Stem Cell Symposium. University of Lund, Lund, Sweden.

October 26th, 2011 – Stem cells in regeneration. XII Annual Meeting of German Blood Banks, Dresden, Germany.

November 12th, 2011 – VSELs non-controversial PSCs. 1st Vatican conference on Adult Stem Cells. Vatican City, Rome, Italy.

November 17th, 2011. Stem cells and regenerative medicine. University of Kentucky, Lexington, USA.

November 29th, 2011 – Stem cells and regenerative medicine. Medical University of Bialystok, Bialystok, Poland.

December 1st, 2011 – Mechanisms regulating trafficking of stem cells. Medical University of Bialystok, Bialystok, Poland.

December 19th, 2011 - Adult stem cell therapies – time for VSELs. Soochow University, Suzhou, China.

January 19th, 2012 – VSELs our key to longevity. Tulane University, New Orleans, Louisiana, USA.

February 24th, 2012 – VSELs are key to longevity. 34th Annual Meeting of Japanese Society for Stem Cell Therapies. Osaka, Japan.

February 27th, 2012 - VSELs an update. Special Forum on Stem Cell Therapies. Osaka, Japan.

March 8th, 2012 – Controversies in stem cell therapy. Conference on Ethics in Science Bialystok, Poland.

March 17th, 2012 – Potential role of VSELs in regenerative medicine. Perspectives in Cell- and Gene-Based Medicines. Frankfurt, Germany.

March 19th, 2012 - Very Small Embryonic Like Stem Cells (VSELs) – our key to regeneration, longevity and passkey to cancer. Disputationes 2012, Florence, Italy.

April 8th, 2012 – VSELs a rosetts stone to understand aging and cnacer. JGB Cancer Center, Louisville, USA

April 25th, 2012 – Vest small embryonic likes stem cells as a rosetta stone to undesratnd aging and cancer. Stony Brook, USA.

May 10th, 2012 – The role of complement and bioactive lipids in stem cell trafficking. X!! European Symposium on Granulocytes and Platelets. Openning Lecture, Warsaw, Poland.

May 15th, 2012 – Mechanisms of mobilization and homing of hematopoietic stem cells revisited. – Inst. Cell. Therap., Louisville, USA.

May 18th, 2012 - Basic biology of paracrine factors and stem cells. American Association of Aging, Orlando, Florida.

May 18th, 2012 - Clinical effects of stem cell/paracrine interactions. American Association of Aging, Orlando, Florida.

May 18th, 2012 - Current research on the effects of stem cell paracrine factors e.g., exosomes. American Association of Aging, Orlando, Florida.

June 7th, 2012 – Very small embryonic like stem cells (VSELs) as Rosetta stone to understand aging and cancer. Fudan University, Shanghai, China.

June 8th, 2012 – The role of complement in mobilization, homing and engraftment of hematopoietic setm/progenitor cells – a novel link between innate immunity and hematopoiesis. Fudan University, Shanghai, China.

June 11th, 2012 – Clinical effects of stem cell-derived paracrine soluble factors and microvesciels. Fudan University, Shanghai, China.

June 15th, 2012 – VSELs a Rosetta stone to understand cancer and aging. Hematology conference. UofL, Louisville, Ky

June 20th, 2012 – VSELs a new players. Digestive Disorder Federeation Meeting, Liverpool, UK.

July 11th, 2012 - VSELs - as Rosetta stone to understanding tissue rejuvenation, aging and cancer, Center of Biomedical Research Excellence (COBRE), Roger Williams Medical Center, Providence, Rhode Island.

August 21st, 2012 – VSELs and their potential clinical applications. FECTs Meeting, Katowice, Poland.
September 12th, 2012 – VSELs and update – UofL Dept. of Cardiology Ground Rounds, Louisville, Poland.
September 21st, 2012 – Mechanisms that orchestrate stem cell mobilization. Hematologica Conference. Sopot, Poland.
October 5th, 2012 – Stem cells current status of research, ethics and future. Innaugurational lecture for new academic year. Medical University, Bialystok, Poland.
October 6th, 2012 – Stem cells current status of research, ethics and future. Innaugurational lecture for new academic year. Pomeranian Medical University, Szczecin, Poland.
October 12th, 2012 – VSEL – our key to longevity and passkey to cancerogenesis. XVII World Cancer Congress. Hersonissos, Greece.
November 29th, 2012 – VSEL a Rosetta Stone to understand aging and cancer. Boston CHOP, Harvard University, Boston, MA.
December 3rd, 2012 – Stem cells and regenerative medicine. Warsaw Medical University, Warsaw, Poland.
March 19th, 2013 – Quo Vadis Regenrative Medicine? EU Parliament, Brussels, Belgium.
April 13th, 2013 – VSELs and aging. 2nd International Conference on Regenerative Medcicne, Vatican, Rome, Italy.
May 3rd, 2013 - The presence of very small embryonic like stem cells (VSELs) in adult tissues and an emerging role of microvesicles, exosomes and paracrine signals in regenerative medicine – towards development of novel therapeutic approaches. Univ of Dresden, Dresden, Germany.
May 6th, 2013 - New strategies in regenerative medcine. Fudan Univ. Shanghai, China.
May 7th, 2013 - VSELs and update. Fudan. Univ, China.
May 13th, 2013 - The role of bioactive lipids in stem cell trafficking. Fudan Univ. Shangai, China.
May 14th, 2013 – The role of complement in stem cell homing an dmobilization. Fudan Univ. Shanghai, China.
May 30th, 2013 – Quo vadis regenerative medicine? Opening lecture. 2nd Baltic Stem Cell Meeting, Szcecin, Poland.
June 13th, 2013 – HIV unwanted guest in bone marrow. Opening lecture, AIDS Symposium, Cracow, Poland.
June 22nd, 2013 - A novel view on involvement of complement cascade (CC) and sphingosine-1 phosphate (S1P) in pathogenesis of Paroxysmal Nocturnal Hemoglobinuria (PNH). Complement Theraputic Conference, Kos, Greece.
July 2nd, 2013 - The presence of very small embryonic like stem cells (VSELs) in adult tissues and an emerging role of microvesicles, exosomes and paracrine signals in regenerative medicine – towards development of novel therapeutic approaches. XIII World Congress on Toxicology, Seoul, Korea.
July 2nd, 2013 – Novek strategies in regenerative medicine. Catholic University, Seoul, Korea.
July 3rd, 2013 - The presence of very small embryonic like stem cells (VSELs) in adult tissues and an emerging role of microvesicles, exosomes and paracrine signals in regenerative medicine. Seoul National University, Seoul, Korea.
July 3rd, 2013 – Very Small Embryonic Like Stem Cells – practical applications. Ulsan University, Seoul, Korea.
August 22nd, 2013 – Effect of insulin growth factors and somatotrophic signaling on stem cells, tissue organ regeneration, aging and tumor development. 20th Meeting of Brasilian Society of Biology, Caxambou, Brasil.
August 27th, 2013 – VSELs and insulin like growth factors signaling. Sao Paulo University, Sao Paulo, Brasil.
September 18th, 2013 – Stem cells and regenerative medicine. 66th Congress of Polish Surgeons, Warsaw, Poland.
September 26th, 2013 – Quo vadis regenerative medicine? Openning Lecture at 25th Congress of Polish Society of Hematology and Transfusiology. Poznan, Poland.
October 11th, 2013 – The role of bioactive sphigolipids in metastasis of rhabdomyosarcoma cells. XVIII World Congress Advances in Oncology. Hersonissos, Greece.
October 16th, 2013 – Regenerative medicine in cardiovascular diseases – cell therapies and paracrine effects. Innovative Technologies in Biomedicine. Cracow, Poland.
Ocober 22nd, 2013 – VSELs as a key to understand regeneration and aging. Univ. of Califronia Davis,

Los Angeles, CA.

November 24th, 2013. Umbilical Cord Blood Stem Cells. Annual Meeting of Obstetricians. Cracow, Poland.

December 13th, 2013. Stem cells in lung regeneration. Annual Meeting of Pulmonary Surgeons. Sczecin, Poland.

December 16th, 2013. Very small embryonic-like stem cells and update. Annual Meeting on Stem Cells. Wroclaw, Poalnd.

December 19th, 2013. Regenerative Medicine today and tomorrow. Medical University of Bialystok, Bialystok, Poland.

January 24th, 2014. Quo Vadis Regenerative Medicine? - of stem cells, regeneration, aging and cancer. European Conference of Oncology Pharmacy. Hamburg, Germany.

February 20th, 2014. Stem cells and regenrative medicine. Meharry Medical College, Nasvville, TN, USA.

March 11th, 2014. Novel view on stem cell homing and mobilization. Stem Cell Meeting. Providence, Rhode Island, USA.

May13th, 2014. Current ststus and future of regenerative medcine. Biotechnology 2014 Meeting. Jagiellonian University, Cracow, Poland.

May 18th, 2014. Stem cells in aging and regenration. 43rd Annual Meeting of Brazilian Society of Biochemistry. Foz Do Igazu, Brazil.

June 5th, 2014. Quo Vadis Regenerative Medicine? International Meeting on Advances in Psychiatry. Warsaw, Poland.

June 13th, 2014. Pivotal Role of Paracrine Effects in Stem Cell Therapies in Regenerative Medicine – Can we Translate Stem Cell-Secreted Paracrine Factors and Extracellular Microvesicles into Better Therapeutic Strategies? International Extracellular Vesicles Symposium. Providence, Rhode Island, USA.

June 18th, 2014. Quo vadis regenerative medicine – stem cells in regeneration, aging and cancerogenesis. Openning lecture at the Annual Meeting of the European Society of Oncological Therapy. Cracow, Poland.

June 19th, 2014. Today and future of regenerative medicine. XV Meeting of the Polish Society of Experimental and Clinical Immunology. Wroclaw, Poland.

September 1st, 2014. Quo Vadis Regenerative Medicine – of stem cells aging and cancerogensis. Univ of Bern, Switzerland.

September 9th, 2014 – Novel view on compartment of adult stem cells and stem cell traffciking. Karl Landsteiner distinguished lecture at 47 Annual Meeting of German Society of Transfusion Medicine and Immunohaematotherapy, Dresden, Germany.

October 8th, 2014 – The role of purinergic signaling in metastasis of lung cancer. 17 Annual World Congress Meeting, Athens, Greece.

October 16th, 2014 - Novel view on stem cell compartment – of germ line and parental impritning. 2014 International Experimental Biology and Medicine Conference. Shanghai, China.

October 29 th, 2014 - Very Small Embryonic Like Stem Cells (VSELs) – A Novel View on Hierarchy of Stem Cells in Adult Tissues. Novel Stem cells and vesicles Symposium. Rhode Island, USA.

February 18th, 2015 – Novel view on hierarchy of stem cells in adult bone marrow. Frontiers in Regenerative Medicine, Torino, Italy.

March 19th, 2015 – Novel view on hierarchy of stem cell in bone marrow. 8th Annual World Congress of Regenerative Medicine & Stem Cells. Busan, South Korea.

March 21st, 2015 – Germ line potential of bone marrow derived stem cells. 8th Annual World Congress of Regenerative Medicine & Stem Cells. Busan, South Korea.

May 19th, 2015. Stem cells and aging. 3rd Baltic Meeting on Aging, Szczecin, Poland.

May 30th, 2015 - Extracellular nucleotides as novel, underappreciated pro-metastatic factors that stimulate purinergic signaling in human lung cancer cells. 5th Brazilian Purine Club Meeting. Maresijas. Brazil.

June 19th, 2015 - Challenging questions to hierarchy of bone marrow stem cells and their developmental and postnatal trafficking. 3rd Baltic Stem Cell Meeting, Warsaw, Poland.

June 24th, 2015 – Bone marrow stem cell hierarchy. Visiting Professor Lecture at Medical University of Bialystok, Poland.

September 26th, 2015 – Novel view on stem cell compartment. XXVI Meeting of Polish Society of Hematology and Transfusiology. Szczecin, Poland.

October 9th, 2015 – Embryonic hypothesis of tumor development – 150 years later. XX World Cancer Meeting, Athens, Greece.

October 17th, 2015 – Novel view on stem cell mobilization and homing. II International Conference on Regenerative Medicine, Antalya, Turkey.

November 1st, 2015 – Novel view on stem cell hierarchy in bone marrow. Openning lecture at Annual Meeting of MEPSA and ANZBMS, Hobbart, Australia.

November 3rd, 2015 – Novel view on stem cell trafficking. Plenary lecture at Annual Meeting of MEPSA and ANZBMS, Hobbart, Australia.

January 12th, 2016 - Novel view on hierarchy of bone marrow stem cells – implications for tissue/organ regeneration. State Key Laboratory of Experimental Hematology. Tianjin, China.

January 13th, 2016 - Novel view on mobilization and homing of hematopoietic stem cells. State Key Laboratory of Experimental Hematology. Tianjin, China.

March 15th, 2016 - Adult stem cell therapies - current status and future directions. 9th World Congress of Regenrative Medicine and Stem Cells. Seoul, South Korea.

March 16th, 2016 - Novel view on hematopoietic stem cell mobilization and homing – an emerging role of innate immunity, bioactive lipids and extracellular nucleotides. 9th World Congress of Regenerative Medicine and Stem Cells. Seoul, South Korea.

April 26th, 2016 - Novel View on Hematopoietic Stem Cell Mobilization and Homing – An Emerging Role of Innate Immunity, Bioactive Lipids and Extracellular Nucleotides. 9th BIT World Congress, Dalian, China.

May 16th, 2016 - Extracellular nucleotides as novel, underappreciated pro-metastatic factors for human lung cancer cells. Openning lecture at 5th Brazilian Purinergic Signaling Meeting, Joae Pesoa, Brazil.

June 19th, 2016 – Stem cells a key to longevity. 14th National Congress of Psychiatry, Katowice, Poland.

June 29th, 2016 – The novel role of activation of complement cascade in pathogenesis of hematopoietic malignancies - modulatory effect of heme oxygenase-1 (HO-1). 8th Innate Immunity Aegean Conference, Rhodes, Greece.

September 28th, 2016 – Novel View of Stem Cell Hierarchy in Adult Bone Marrow: An Evidence for a Presence of Pluripotent Stem Cells from Embryonic Development. 5th Congress of World Union of Wound Healing Societies. Florence, Italy.

October 6th, 206 – The novel role of the activation of complement cascade in the pathogenesis of hematopoietic malingnancies and the modulatory effect of heme oxygenase-1 (HO-1). 21st World Congress on Advances in Oncology. Athens, Greece.

November 17th, 2016. Quo vadis regenerative medicine. 5th Science Polish Perspective Sympozjum. Oxford, UK.

February 17th, 2017. Quo vadis medicina regenerativa? Warsaw Medical University Symposium. Warsaw, Polalnd.

March 9th, 2017. The novel role of complement cascade and bioactive phosphosphingolipids in trafficking of hematopoietic stem cells. University of Virginia, Charlotensville, Virginia, USA.

April 19th, 2017. Pivotal role of innate immunity in stem cell mobilization. 8th CETO Meeting, Portoroze, Slovenia.

April 24th, 2017. Novel view on hematopoietic stem cell mobilization and homing – an emerging role of innate immunity, bioactive lipids and extracellular nucleotides.8th BIT Congress, Xian, China.

May 5th, 2017. Potential VSELs therapy in hematological disorders. Plenary lecture at 2nd International Conference on Hematology. Shiraz, Iran.

May 5th, 2017. New challenges in hematopoietic stem cell homing and engraftment. Plenary lecture at 2nd International Conference on Hematology. Shiraz, Iran.

May 19th, 2017. Adult stem cell therapies - old concepts and recent progress. Plenary lecture at 15th International Meeting of ICHC. Antalya, Turkey.

June 26th, 2017. Innate Immunity as a Pivotal Player in Mobilization of Hematopoietic Stem Cells from Bone Marrow Into Peripheral Blood. 8th Innate Immunity Aegean Conference. Hersonisos, Crete, Grece.

September 24th, 2017. Pathogenesis of paroxysmal nocturnal hemoglobinuria – do we know everything? XXIV Meeting of Polish Society of Hematology and Transfusiology. Warsaw, Poland.

September 25th, 2017. Novel view on hierarchy of bone marrow stem cell compartment. XXIV Meeting of Polish Society of Hematology and Transfusiology. Warsaw, Poland.

October 23rd, 2017. Novel view on stem cell compartment. IRHT Meeting, Mulhouse, France.

November 12th, 2017. Current status and future of stem cell therapies - novel view on stem cells isolated from adult tissues. 8th BIT Congress. Macau, China.

November 13th, 2017. Novel view on hematopoietic stem cell mobilization and homing – an emerging role of innate immunity, bioactive lipids and extracellular nucleotides. 8th BIT Congress. Macau, China.

November 14th, 2017. Current status and future of stem cell therapies - novel view on stem cells isolated from adult tissues. University of Macau. Macau, China.

March 6th, 2018. Innate Immunity and Purinergic Signaling orchestrate mobilization of Hematopoietic Stem Cells. Penn State University, Hershey, PA, USA.

May 15th, 2018. Pluripotent stem cells in adult tissues. River Side University, Riverside, CA.

June 21st, 2018. Novel evidence that extracellular nucleotides and purinergic signaling induce innate immunity-mediated mobilization of hematopoietic stem/progenitor cells. Foz d'Igasu, Brazil.

July 23rd, 2018. Pluripotent stem cells in adult tissues. Cancer Meeting, Rome, Italy.

August 26th, 2018. Isolation and culture of very small embryonic-like stem cells, and their applications in regenerative medicine. Fudan University, Shanghai, China.

August 27th, 2018. A role of purinergic signaling in stem cell trafficking and regeneration. Fudan University, Shanghai, China.

September 27th, 2018. Current status of regenerative medicine. IVth Baltic Stem Cell Meeting, Warsaw, Poland.

October 10th, 2018. Thunder from Louisville - VSELs shake the stem cell world and if we are right textbooks will be rewritten. Lion Eye Clinic, UofL, Louisville.

HIRSCH FACTOR = 70

Ph.D. THESES SUPERVISION (MENTHOR)

1995 - Kuczyński, Wojtek MD, PhD - *summa cum laude*
1996 - Nieborowska, Skorska Margaret MD, PhD - *summa cum laude*
1997 - Hałasa, Maciek MD, PhD - *summa cum laude*
1997 - Marlicz, Wojtek MD, PhD - *summa cum laude*
1997 - Honczarenko, Marek MD, PhD - *summa cum laude*
2000 - Majka, Marcin PhD - *cum laude*
2000 - Paczkowska, Edyta MD, PhD
2002 - Baj-Krzyworzeka, Monika PhD - *summa cum laude*
2003 - Kijowski, Jacek MD, PhD - *summa cum laude*
2004 - Kucia, Magda PhD - *summa cum laude*
2004 - Jankowski, Kacper PhD - *summa cum laude*
2004 - Reca, Ryan PhD - *Dean's Citation*
2005 - Trzyna, Ela PhD
2007 - Danuta Jarocha PhD
2007 - Marcinowska, Agnieszka – MD, PhD
2007 - Michalowska, Anna – MD, PhD
2009 - Wysoczynski, Marcin – PhD - *summa cum laude*
2011 - Wan Wu MD, PhD
2013 – Katarzyna Mierzejewska – PhD – *summa cum laude*
2013 – Ewa Bryndza – PhD
2013 – Joanna Tarnowska – MD, PhD
2015 – Malwina Suszynska – PhD
2015 – Sylwia Brokowska – PhD – *summa cum laude*
2015 – Karol Serwin – PhD
2017 – Zacharias Sellers - PhD

PUBLICATIONS

BOOKS

1. Ratajczak M.Z. Changes in the biochemical parameters of the patients after bone marrow transplantation. Clinical and experimental studies. Medical Center of Postgraduate Education WAM, Lodz 1989.
2. Ratajczak MZ. Adult Stem Cell Therapies: Alternatives to Plasticity. Springer 2014.

BOOK CHAPTERS

1. Ratajczak M.Z., Gewirtz A.M.: Role of the c-kit protooncogene in normal and malignant human hematopoiesis. In: Molecular Biology of Haematopoiesis, vol. II (red. Abraham N., Konwalinka G., Marks P., Sachs L., Tavassoli M.) , Intercept Ltd, 1992 (449-456).
2. Ratajczak M.Z., Gewirtz A.M.: Oligonucleotide based therapeutics of human malignancies. In: Nucleic Acids & Molecular Biology, vol. VIII, (red. F. Eckstein), Springer Verlag, Berlin - Heidelberg 1994, 298 - 326.
3. Kregenow D., Ratajczak M.Z., Gewirtz A.M.: Disrupting the flow of genetic information with antisense oligodeoxynucleotides: research and therapeutic applications. In: Delivery strategies for antisense oligonucleotide therapeutics. S. Akhtar (ed.), CRC, New York, 1994, pp. 1-15.
4. Gewirtz A.M., Ratajczak M.Z.: Perturbing hematopoietic cell gene expression with oligodeoxynucleotides. Research and clinical applications. In: Applied Antisense Oligonucleotide Technology, (CA. Stein, AM. Krieg, eds.) Wiley-Liss 1998, New York, Singapore, Toronto, pp. 299-315.
5. Ptasznik A., Ratajczak M.Z.: Hematology of mononuclear phagocytes. In: Ultrastructure and cell function. Vol 4 (J. Kawiak and E. Osuchowska eds.), PWN, Warsaw, 1989.
6. Jedrzejczak W.W., Szczylik C., Ratajczak M.Z., Pojda Z.,: Bone marrow transplantation. In: Ultrastructure and cell function. Vol 5. (J. Kawiak and E. Osuchowska, eds.), PWN, Warsaw, 1991.
7. Ratajczak M.Z, Szwech P.: Hybrid hematopoietins. In: Cytokines. Clinical applications. (W.W. Jedrzejczak, M. Podolak-Dawidziak, eds.), Volume, Warsaw. 1997.
8. Ratajczak M.Z.: The role of the growth factors acting through the receptors with intrinsic tyrosine kinase activity in the regulation of the proliferation of the early human haematopoietic cells. In: Fizjologia krwiotworzenia wraz z metodyka badawacza. (Dabrowski Z. ed.), PWN, Krakow, 1998.
9. Ratajczak M.Z., Gewirtz A.M.: Oligodeoxynucleotide based therapeutics for human leukemias. In: Molecular aspects of cancer and its therapy. (A. Mackiewicz, P.B. Sehgal, eds.), Birkhauser Verlag, Basel, 1998, pp. 163-177.
10. Calabretta B., Skorski T., Zon G., Ratajczak M.Z., Gewirtz A.M.: Antisense strategies in the treatment of leukemias. In: Gene therapy of cancer. (E.C. Lattime, S.L. Gerson, eds.), Academic Press, San Diego, London, Boston 1998, pp. 223-232.
11. Allendorf, D. J., G. R. Ostroff, J. T. Baran, C. W. Dyke, M. Z. Ratajczak, G. D. Ross. 2003. Oral WGP beta glucan treatment accelerates myeloid recovery and survival after radiation exposure. *In:* BTR 2003: Unified Science & Technology for Reducing Biological Threats & Countering Terrorism. Univ. New Mexico, Albuquerque. pp. 104-113.
12. Majka M, Ratajczak M.Z. 2006. Biological role of the CXCR4-SDF-1 axis in normal human hematopoietic cells. *In*: Transmembrane signaling protocols (Ydar A, Bodduluri H, eds.), Humana Press, Totowa, New Jersey. pp. 103-114.
13. Ratajczak M.Z. 2007. Hetreogenous populations of stem cells reside in the bone marrow: which therapeutic implications? *In*: Progressi in Biologia e Medicina, Bernasconi C (ed), Collegio Ghislieri, Pavia, Italy. pp.72-81.
14. Ratajczak MZ, Reca R, Wysoczynski M, Kucia M, Ratajczak J. A role of complement system in mobilization and homing of hematopoietic stem/progenitor cells. In: Frontiers in Research vol 1. Georgiev VSt, Westen KA, McGoven JJ (eds). Humana Press 2008, pp. 357-363.
15. Zuba-Surma EK, Shin DM, Klich I, Ratajczak J, Kucia M, Ratajczak MZ. Identification of very small embryonic like stem cells from murine and human specimens. In: Applications of Flow Cytometry in Stem Cell Research and Tissue Regenration.(Krishan A, Krishnamutry H and Torey S eds), Willey-Blackwell 2010, pp. 91 -101.
16. Ratajczak MZ, Zuba-Surma E, Kucia M, Nowacki P, Machalinski B. Potential Application of Very Small Embryonic Like (VSEL) Stem Cells in Neural Regeneration. In: Perspectives of Stem

Cells From Tools for Studying Mechanisms of Neuronal Differentiation towards Therapy (Ulrich H ed.). Springer 2009, pp. 231-243.

17. Shin DM, Lui R, Nowacki P, Ratajczak J, M Kucia M, Ratajczak MZ. Very small embryonic-like stem cells and their potential relevance for kidney homeostasis. In: Regenerative Nephrology. (Goligorsky M (ed). Academic Press 2010, pp. 189-199.
18. Shin DM, Klich I, Ratajczak J, Kucia M, Ratajczak MZ. Very small embryonic-like stem cells (VSELs) and importance in growth. In: Handbook of Growth and Growth Monitoring in Health and Disease. (Preedy VR (ed). Springer Science 2012, pp. 1257-1271.
19. Shin DM, Ratajczak J, Kucia M, Ratajczak MZ. Very small embryonic/epiblast-like stem cells (VSELs) residing in adult tissues and their role in tissue rejuvenation and regeneration. In: Embryonic Stem Cells – Differentiation and Pluripotent Alternatives. Intech 2011, pp. 433-450.
20. Ratajczak J, Shin DM, Kucia M, Ratajczak MZ. Very small embryonic-like stem cells from umbilical cord blood. In: Cord Blood, Biology, Transplantation, Banking and regulation. (Broxmeyer H (ed.) AABB Press 2011, pp. 113-131.
21. Ratajczak MZ, Tarnowski M, Borkowska S, Serwin K. The embryonic rest hypothesis of cancer development: 150 years later. In: Trends in Stem Cell Proliferation and Cancer Research. (Resende RR and Ulrich H (eds.) Springer 2013, pp 51-63.
22. Ratajczak MZ. Regenerative Medicine and the Search for Pluripotent/Multipotent Stem Cells. In: Adult Stem Cell Therapies: Alternatives to Plasticity. (Ratajczak MZ ed.) Springer 2014, pp 1-17.
23. Kucia M, Suszynska M, Ratajczak J, Ratajczak MZ. Novel Therapeutic Approaches in RegenerativeMedicine - Adult Tissue-Derived Very Small Embryonic-like Stem Cells and Harnessing Paracrine Signals of Adult Stem Cells. In: Adult Stem Cell Therapies: Alternatives to Plasticity. (Ratajczak MZ ed.) Springer 2014, pp 19-33.
24. Ratajczak MZ, Schneider G, Ratajczak J. Paracrine effects of fetal stem cells. In: Fetal Stem Cells in Regenrative Medicine (Fauza DO and Bani M. eds). Humana Press 2016, pp 47-56.
25. Suszynska M, Ratajczak J, Ratajczak MZ. Very Small Embryonic Like Stem Cells (VSELs) and Their Hematopoietic Specification. In: Working with Stem Cells (Ulrich H, Davidson Negraes P eds.) Springer 2016, pp. 97-110.
26. Schneider G, Ratajczak MZ. Ceramide-1-phosphate and its role in trafficking of normal setm cells and cancer metastasis. In: Lipidomics of Stem Cells (Pebay A, Wong R.C.B) Sringer 2017, pp. 137-150.

ORIGINAL PEER-REVIEWED ARTICLES

1. Jedrzejczak W.W., Ratajczak M.Z.: Eosinophilic granulocyte deficiency in mice mutant in sl and w loci. Experientia 1985, 41, 1596- 1598. PMID: 3841073
2. Jedrzejczak W.W., Szczylik C., Ratajczak M.Z., Ahmed A.: Congenital murine osteopetrosis inherited with osteosclerotic (oc) gene: hematological characterization. Exp. Hematol. 1986, 14, 819 - 826. PMID: 3758233
3. Jedrzejczak W.W., Szczylik C., Pojda Z., Siekierzynski M., Kansy J., Klos M., Ratajczak M.Z., Pejcz J., Jaskulski D., Gornas P.: Success of bone marrow transplantation in congenital Diamond - Blackfan anaemia: a case report. Eur.J.Haemtol. 1987, 38, 204 - 206. PMID: 3109937
4. Jedrzejczak W.W., Pojda Z., Ahmed A., Ratajczak M.Z.: Hematological compensation of microphtalmic mice with congenital osteopetrosis. Bone 1987, 8, 315 - 317. PMID: 3426889
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