

# ***CURRICULUM VITAE***

**Jarosław Woliński**

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**Personal data:** Date and place of birth: 13 September 1975, Pułtusk, Poland  
Nationality: Polish

## **Qualifications**

**2012** - Maria Curie-Skłodowska University (UMCS), Lublin, Poland, Faculty of Biology and Biotechnology - **Habilitation in Biology/Animal Physiology.**

**2003** - **PhD** in Agricultural/Animal Science (*with distinctions*)

**1999** - Master's Degree in Animal Science

## **Education**

**1994-1999** Warsaw Agricultural University, Animal Science Faculty.

**1990-1994** L High School named after Piotr Skarga, Pułtusk.

## **Employment history**

**2017 and present** - The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, **Department of Animal Physiology.**

**Position: Associate Professor**

**2014-2016** - The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, **Department of Endocrinology.**

**Position: Associate Professor**

**2010-2014** - The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, **Department of Endocrinology.**

**Position: Assistant Professor**

**2005-2010** The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, **Department of Gastrointestinal Physiology.**

**Position: Head of Department**

**2003** - The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, **Department of Endocrinology.**

**Position: Assistant Professor**

**2000** - The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences, Jabłonna near Warsaw, Department of Endocrinology.

**Position: Assistant**

**Areas of interests:** gastrointestinal tract development in neonatal animals, confocal microscopy, experimental surgery of the gastrointestinal tract, neuro-hormonal regulation of the gastrointestinal

motility and exocrine pancreatic secretion; animals experiments setup, biochemical, radioimmunoassay, motility recording and statistical analysis.

### **Total number of publications:**

Original journal articles – 61, total numbers of publications - 226. (Total IF = 116,129 HI = 12 (Scopus))

### **Scholarships/ scientific research**

- 1) **May 2000.** Lund University, Department of Animal Physiology, Sweden. Scholarship within the frames of interdisciplinary VISBY programme: “Environmental impact of animal breeding, food production and human/veterinary medicine”, (2 weeks).
- 2) **September-December 2001.** Scientific mission in the Institut National de la Recherche Agronomique, Unité Mixte de Recherches sur le Veau et le Porc, INRA, Rennes, France. Joint research project: “The role of exogenous leptin and cholecystokinin on the gastrointestinal tract development in neonatal piglets”, (4 months).
- 3) **September-December 2002.** Scholarship in the Institut National de la Recherche Agronomique, Unité Mixte de Recherches sur le Veau et le Porc, INRA, Rennes, France. Joint research project: “The role of exogenous leptin and cholecystokinin on the gastrointestinal tract development in neonatal piglets”, (4 months).
- 4) **June 2002.** Scholarship in the Department of Animal Physiology in Lund University, Lund, Sweden. Joint research project: “Leptin influence on intestinal permeability in neonatal pigs” (2 weeks).
- 5) **September 2004.** Scientific mission in the Adisseo France S.A.S. Joint research project: The effect of ADISSEO’s multi-enzyme complex *Rovabio<sup>TM</sup> Excelon* intestinal physiology of piglets”, (2 weeks).
- 6) **March 2005. Scientific training in Serviei de Microscopia Electronica, Universitat de Lleida (2 weeks).**
- 7) **June 2005.** Scientific research in the Department of Human Biology, TU Munich, Freising – Weihenstephan. Joint research project: “**A three-dimensional analysis of jejunal myenteric ganglia**”, **confocal techniques** (1 week).
- 8) **January, February, May, June, July, December 2006 and January 2007.** Scientific research in the Research Institute for the Biology of Farm Animals, Dummerstorf . Joint research project: POLONIUM program (nr 7068/R07/R08 Poland, and 13968PE France), (1 week per each month), **Responsible for all immunohistochemical analysis.**
- 9) **September-November 2007.** Scientific mission in the Department of Animal Nutrition, Estación Experimental del Zaidín (CSIC), Armilla, Granada, Spain (2 weeks).
- 10) **November 2007.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden. (1 week).
- 11) **February-April 2008.** Scholarship in the Department of Cell and Organism Biology, Lund University, Sweden. **Author of the project:** “The influence of leptin, ghrelin and obestatin on structure and function development of gastrointestinal track in new-born rats”, (3 months).
- 12) **June 2008.** Scholarship in the Department of Cell and Organism Biology, Lund University, Sweden (3 weeks).
- 13) **September-November 2008.** Scholarship in the Department of Cell and Organism Biology, Lund University, Sweden (1 month).
- 14) **January 2009.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (2 weeks).
- 15) **April 2009.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (1 week).
- 16) **November-December 2009.** Scholarship in Department of Cell and Organism Biology, Lund University, Sweden. “The influence of leptin, ghrelin and obestatin on structure and function development of gastrointestinal track in new-borns rats” - **continuation**, (3 weeks).

- 17) **February-March 2010.** Scholarship in Department of Cell and Organism Biology, Lund University, Sweden. **Co-author of the project:** "Environmental and health impact of feed enzyme additive in pigs diet", (2 months). **Coordinator and head of research group responsible for all histological and Immunohistochemical analysis.**
- 18) **November 2015.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (1 month).
- 19) **January 2016.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (1 week).
- 20) **February 2016 –** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (1 month)
- 21) **March 2016.** COST action FA1401 (PigGutNet) Grant. Department of Cell and Organism Biology, Lund University, Sweden (3 weeks).
- 22) **April 2016 –** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (3 weeks)
- 23) **November 2016.** Scientific research in the Department of Cell and Organism Biology, Lund University, Sweden (1 month).
- 24) **January 2017 -** Department of Biology, Lund University, Sweden (1 month).
- 25) **November 2017 -** Department of Biology, Lund University, Sweden (1 month).
- 26) **August 2018 -** Department of Biology, Lund University, Sweden (1 week).

### Training courses

**January 2001.** STATISTICA - for medicine and biology. StatSoft, Cracow.

**June 2004.** Techniques of confocal microscopy. Zeiss, Poland.

**June 2005.** Techniques of confocal microscopy, Gliwice, Zeiss, Poland.

**June 2007.** XIX Summer school of Molecular Biology, Poznań, Poland

**September 2015.** Training for persons responsible for planning procedures and experience and their conduct. Polish Laboratory Animal Science Association. Certificate No. 668/2015.

**September 2015.** Training for persons performing the procedure. Polish Laboratory Animal Science Association. Certificate No. 668/2015.

**September 2015.** Training for persons killing of animals were used in procedures. Polish Laboratory Animal Science Association. Certificate No. 668/2015.

**June 2016.** Certificate of competence for drivers and attendants pursuant to Article 17(2). Certificate No. 113/14/14/16; 13.06.2016.

**October 2016.** Polish Central Anti-Corruption Bureau - E-learning trainings: Social consequences of corruption. Certificate No. P-00119/2016/00001532669 – 7.10.2016.

**October 2016.** Polish Central Anti-Corruption Bureau - E-learning trainings: Corruption in bussines. Certificate No. P-00125/2016/00001532668 – 7.10.2016.

**October 2016.** Polish Central Anti-Corruption Bureau - E-learning trainings: Corruption in public administration. Certificate No. P-00098/2016/00001532670 – 7.10.2016.

### Grants

**“COST action FA1401 (PigGutNet)” - COST STSM Reference Number: COST-STSM-FA1401 (PigGutNet) – 32719; (2016-02-12 to 2016-03-11);** “The impact of colostral immunoglobulins on gastrointestinal tract structure in newborn piglets” As part of the project: “The impact of colostral immunoglobulins on brain development is crucial for behaviour, survival and welfare of newborn piglets”. Head of the project, (5000Eur).

**2015-2019 -** National Science Centre Poland no. 2015/17/B/NZ9/01447. The influence of specific growth factors on the jaw development in anodontia patients - porcine model. Head of the project, (720000PLN).

**2013-2017** - National Science Centre Poland no. 2012/05/B/NZ9/00901. The development of gastrointestinal motor activity in newborn piglets - the role of ghrelin and obestatin. Head of the project, (720000PLN).

**2012-2016** - National Science Centre Poland no. 2011/03/D/NZ9/03697. The role of obestatin in the small intestinal development in the early postnatal period. Principal Investigator, (430000PLN).

**2007-2011** - Grant KBN no. NN 311 1357 33. The effect of exogenous obestatin on the small intestinal structural and functional development in neonatal piglets. Position: Head of the project, (350000PLN).

**Polonium 2007-2008** no. 7068/R07/R08. The short- and long-term effects of the nutritional status of pregnant sows on the gastrointestinal tract development of their offspring, (600000PLN).

**2006-2008**. Grant KBN no. N 308 013 31. The effect of leptin, ghrelin and melatonin on gastrointestinal myoelectric activity in early postnatal period, (350000PLN).

**2003-2006** - Grant KBN no. PBZ-KBN-093/P06/2003. The role of exogenous leptin and ghrelin in the regulation of gastrointestinal track maturation in neonatal piglets. Position: Head of the task, (260000PLN).

**2003-2005** - Grant KBN no. 3P05C 029 24. Relation of intestinal migrating motor complex recovery to the preservation of the network of interstitial cells of Cajal in pigs, (250000PLN).

**2002-2004** – EUREKA Project, SPUB-E! No. 2675, HEALTHY-WEANING, (500000PLN).

**2002-2003** - Grant KBN no. 3P06D 047 22. The role of colostral and milk leptin on the structural and functional gastrointestinal tract development in neonatal piglets, (50000PLN).

### **Scientific research for industry**

**2018 - URI-01 study – PROF – ALLENA, USA** - Testing the stability of different formulations of ALLN-346 immediate release capsules along gastrointestinal tract in fed state in pigs, ALLN-346 PK study in the gut - **Supervisor - coordinator. Pre-clinical study.**

**2018 – ARIP-02 study – PROF – POLPHARMA S.A.** - Main comparative study of three tested Aripiprazole 400mg LAI formulations versus reference Aripiprazole 400mg LAI formulation and reference Aripiprazole solution for intramuscular injection in domestic pigs/fed state **Supervisor - coordinator. Pre-clinical study.**

**2018 – ARIP-01 study – PROF – POLPHARMA S.A.** - Dose-finding study of Aripiprazole LAI formulation in domestic pigs/fed state - **Supervisor - coordinator. Pre-clinical study.**

**2017 – BF08 study - ALCRESTA Pharmaceutical, USA/PROF Lublin** - Testing PrEFIC (fat predigestion) in simulating (mimicking) NICU (clinical) conditions of enteral feeding in the human neonates on pig model - **Supervisor - coordinator. Pre-clinical study.**

**2017 – BF07 study – ALCRESTA Pharmaceutical, USA/PROF Lublin** – Testing Feed Tolerance in a Pre-Term Piglet Model, 21-day study - **Supervisor - coordinator. Pre-clinical study.**

**2017 – BF06 study - ALCRESTA Pharmaceutical, USA/PROF Lublin** – Feed tolerance – Pre-term porcine model - **Supervisor - coordinator. Pre-clinical study.**

**2017 – PR01 study - ALCRESTA Pharmaceutical, USA/PROF Lublin** - Effectiveness of pancreatic

enzyme replacement therapy (PERT) vs Relizorb in EPI pig model. **Supervisor - coordinator. Pre-clinical study.**

**2016 – PROF, Lublin Poland.** The impact and role of oxalate decarboxylase enzyme in the formation of kidney stones and preventing kidney stones - pig model. **Supervisor - coordinator. Pre-clinical study.**

**2016 – SGPlus, Malmo, Sweden – ALCRESTA, MA, USA.** Effectiveness of pancreatic enzyme replacement therapy (PERT) in the relation to the time and form of the treatment with SIMILAC vs. PreEFIC. **Supervisor - coordinator. Pre-clinical study, (90000USD).**

**2016 – SGPlus, Malmo, Sweden.** Effectiveness of pancreatic enzyme replacement therapy (PERT) on the glucose absorption. **Supervisor - coordinator. Pre-clinical study, (90000USD).**

**2015 – PROF, Lublin Poland.** Effectiveness of pancreatic enzyme replacement therapy (PERT) in the relation to the time and form of the treatment with SIMILAC vs. PreEFIC. **Supervisor – coordinator. Pre-clinical study, (90000USD).**

**2015 – ALCRESTA Pharmaceutical, USA. Supervisor - coordinator.** Effectiveness of pancreatic enzyme replacement therapy (PERT) in the relation to the time and form of the treatment with SIMILAC vs. PreEFIC. **Supervisor – coordinator, Pre-clinical study, (120000USD)**

**2010 – Alnara Pharmaceutical, USA.** Effectiveness of pancreatic enzyme replacement therapy (PERT) in the relation to the time and form of the treatment with Liprotamse vs. Creon. **Supervisor - coordinator. Pre-clinical study, (219000USD)**

**2006-2010 - ADISSEO, France.** The effect of ADISSEO's multi-enzyme complex *Rovabio™ Excelon* on the small intestine myoelectric activity in weaned pigs. **Supervisor – coordinator, (30000EUR)**

**2005-2006 - Ilerimplant, Lleida, Spain.** A novel preparation procedure to evaluate the bone cell response produced at the bone-implant interface using the technique scanning electron microscopy with backscattered electron imaging (SEM-BSE). **Supervisor – coordinator, (25000EUR)**

**2005 - VETAGRO S.R. L., Reggio Emilia, Italy.** The effect of diet on the small intestine development in weaned pigs. **Supervisor – coordinator, (15000EUR).**

**2004 - ADISSEO, France.** The effect of ADISSEO's multi-enzyme complex *Rovabio™ Excelon* on intestinal physiology in piglets. **Supervisor – coordinator, (20000EUR).**

## **Patents**

**1. Patent application no. P-375746,** registered in 17.06.2005. D. Laubitz, P. Michałowski, J. L. Valverde Piedra, S. G. Pierzynowski, B. R. Weström, **J. Woliński**, R. Zabielski. A process of manufacturing a lectin preparation, the lectin preparation and methods of administration of the preparation to mammals. 2005.

**2. European patent no. EP1734131,** registered in 14.06.2006, published in 20.12.2006. D. Laubitz, P. Michałowski, J. L. Valverde Piedra, S. G. Pierzynowski, B. R. Weström, **J. Woliński**, R. Zabielski. A process of manufacturing a lectin preparation, the lectin preparation and methods of administration of the preparation to mammals. 2006

## **Awards**

1. **September 2000.** Second award in competition “Best Master work in 1999” Polish Society of Animal Production in Warsaw in September 2000
2. **June 2001.** Award for Young Scientist on 33<sup>rd</sup> European Pancreatic Club - Meeting, Toulouse, France 13-16.06.2001.
3. **April 2003** – Conference grant – The Foundation for Polish Science (FNP) - (Banff, Canada 2003)
4. **June 2003** – PhD thesis distinction by Scientific Committee of The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Sciences.
5. **June 2004** - Prize of „*Pro Scientia et Vita*” foundation for “Young Active Scientist”.
6. **November 2004** - **Prize of Prime Minister of Poland.**
7. **December 2004** – Team Prize of Chairman of Division V Agricultural, Forestry and Veterinary Sciences Polish Academy of Sciences.
8. **February 2005** – **Award for Young Scientist – The Foundation for Polish Science (FNP) – present – START Programme.**
9. **June 2005** – **Bronze Worth Cross, Prize of President of the Republic of Poland.**
10. **March 2006** - **Award for Young Scientist – The Foundation for Polish Science (FNP) – present – START Programme – prolongation.**
11. **June 2006** – Award for the best Assistant Professor in The KIAPN PAS in 2005, prize of Director of the Institute.
12. **July 2006** - Conference grant – The Foundation for Polish Science (FNP) - (Tokyo-Hakone, Japan).
13. **September 2006** - Award for Young Scientist on 16<sup>rd</sup>. Conference on Regulatory Peptides (Tokyo-Hakone, Japan).
14. **June 2007** - Award for the best Assistant Professor in The KIAPN PAS in 2006, prize of Director of the Institute.
15. **October 2007** – Team Prize (premier rang) of Rector of University of Live Sciences in Lublin for 2006.
16. **June 2008** - Award for the best Assistant Professor in The KIAPN PAS in 2007, prize of Director of the Institute.
17. **June 2008** – **Prize of Minister of Science and Higher Education for Young Scientist (2008-2011)**
18. **June 2009** - Award for the best Assistant Professor in The KIAPN PAS in 2008, prize of Director of the Institute.
19. **January 2010** – Award for the best Assistant Professor in The KIAPN PAS in 2009, prize of Director of the Institute.
20. **January 2013** - Award for the habilitation, prize of Director of the Institute.
21. **The winner of the program “COST action FA1401 (PigGutNet)” - COST STSM Reference Number: COST-STSM-FA1401 (PigGutNet) – 32719; (2016-02-12 to 2016-03-11);** “The impact of colostral immunoglobulins on gastrointestinal tract structure in newborn piglets” As part of the project: “The impact of colostral immunoglobulins on brain development is crucial for behaviour, survival and welfare of newborn piglets”

### Lecturer:

2006 – Biotechnology Interdepartmental Studies, Hugon Kołłątaj University, Cracow. Faculty: “Gastrointestinal physiology in neonates” – **author** and lector of faculty.

2006-2007 – Department of Biology, Warsaw University of Life Sciences SGGW. Faculty: “Gastrointestinal development in new-borns mammals” - **author** and lector of faculty.

### Supervisor of MSc thesis:

**June 2004** – Anna Kotunia – The effect of sodium butyrate on the small intestine development in neonatal piglets feed with milk formula in artificial sow system. Department of Biology, Warsaw University of Life Sciences SGGW (*with distinctions*).

**June 2006** – Marta Jurkowska – The effect of exogenous leptin and ghrelin on the apoptosis in the small intestine in neonatal piglets. Faculty of Animal Bioengineering, University of Warmia and Mazury in Olsztyn.

**June 2007** – Katarzyna Białkowska - The short- and long-term effects of the nutritional status of pregnant sows on the gastrointestinal tract brush border enzymes activity in suckling piglets. Department of Biology, Warsaw University of Life Sciences SGGW

**June 2007** - Joanna Kucharska - The short- and long-term effects of the nutritional status of pregnant sows on the apoptosis in small intestinal mucosa in suckling piglets. Department of Biology, Warsaw University of Life Sciences SGGW

### **Organisation:**

European Pancreatic Club (from 2001),  
Polish Physiological Society (from 2002),  
Polish Pancreatic Club (from 2004 – founder member),  
Foundation for Mother's Milk Bank (from 2009 – founder member)

### **Scientific abilities, skills, methods**

Animal models for GI tract development (preterm, newborn, weaned – piglets, rats), histology, immunohistochemistry, enzymology of the gastrointestinal tract, mioelectrical activity of the gastrointestinal tract (*in vivo*), contractile activity of the gastrointestinal tract (*in vitro*), gastrointestinal tract surgery, experimental surgery in animal models, animal models of dental surgery, histology and immunohistochemistry of jaw and teeth, experience in preclinical and clinical trials (budget, planning, supervision, lab book, reporting),

### **Other abilities**

Computer literacy: Macintosh operating systems (MacOS), Microsoft Windows, Microsoft Office, Internet applications, Photoshop 5.0. and others.

Advanced skills in statistical data analysis (Statistica 5.5, GraphPad Prism), electromyography analysis (Chart Software, ADInstruments, Australia), confocal analysis (Zeiss, Germany).

Driving license: category B (from 1992)

Certificate of competency of motorboat helmsman (from 2013)

### **Language**

English, Russian

### **Hobby**

Tennis