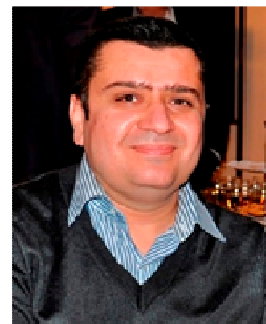

Hevidar Taha, Ph.D.

Curriculum vitae

Personal Information

Surname: Rostinki
Full name: Hevidar Mustafa Taha
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Date of birth: January 1, 1976
Place of birth: Duhok, Kurdistan Region, Iraq.
Current affiliation: Department of Basic Sciences
College of Agriculture
Duhok University
Chanden Street 1
1063BD Sumail/Duhok, Kurdistan Region-Iraq.
Previous affiliation: Department of Medical Biotechnology
Faculty of Biochemistry, Biophysics and Biotechnology
Jagiellonian University
Gronostajowa 7
30-387 Krakow, Poland.

Academic background

10.2013–01.2015 Post-doctoral researcher at the Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland.
10.2004 – 04.2010 Doctor of Philosophy (Ph.D) in biochemistry field at the Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland. Supervised by: Professor Dr. hab Alicja Jozkowicz. Ph.D. thesis “The effect of (GT)n

polymorphism of heme oxygenase-1 (HO-1) promoter on human endothelial cells”.

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| 10.1997- 11.2000 | Master of Science (MSc) degree in the field of Biology (Cytogenetics). University of Duhok, Duhok, Kurdistan Region, Iraq. <u>M.Sc thesis</u> “The Genetic effects of pesticides (Raxil & Granstar) on Albino Laboratory Mice <i>Mus musculus</i> ”. |
| 10.1993- 06.1997 | Bachelor of Science (BSc) in the field of Animal Science at the College of Agriculture, University of Duhok, Duhok, Kurdistan Region, Iraq. |
| 10.1990- 10.1993 | High School Diploma in Science at the Department of Science, Kawa preparatory School, Duhok, Kurdistan region, Iraq. Major subjects were Mathematic, Biology, Chemistry and Physics. |

University Services

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|-----------------|---|
| 2017-untill now | Chair of basic sciences department, College of Agriculture, Duhok University. |
| | Chair of scientific committee in basic sciences department, College of Agriculture, Duhok University. |
| | Served on scientific committee awarded academic scientific title in the College of Agriculture, Duhok University. |
| 2017-2018 | Served as a chair of scientific committee to evaluate teacher portfolio in the basic sciences department. College of Agriculture, Duhok University. |
| 2017-2018 | Served on scientific committee for curriculum development in the College of Agriculture, Duhok University. |
| 2016-2017 | Served on the permanent scientific committee of the department of animal production, College of Agriculture, Duhok University. |
| 2015-2016 | Served on scientific committee awarded academic scientific title in the Faculty of Agriculture, Duhok University. |
| 2015-2016 | Served on scientific committee to evaluate teacher portfolio in the school of animal production, Faculty of Agriculture, Duhok |

University.

2015-2016	Served on scientific committee to evaluate teacher portfolio in the school of animal production, Faculty of Agriculture, Duhok University.
2015-2016	Coordinator of quality assurance and post graduate studies in the school of animal production, Faculty of Agriculture, Duhok University.
2011-2013	Served on the permanent scientific committee of the school of animal production, Faculty of Agriculture, Duhok University.
2011-2013	Served on scientific committee to evaluate teacher portfolio in the school of animal production, Faculty of Agriculture, Duhok University.
2011-2013	Served on scientific committee to evaluate teacher portfolio in the school of animal production, Faculty of Agriculture, Duhok University.
2011-2013	Coordinator of quality assurance and post graduate studies in the school of animal production, Faculty of Agriculture, Duhok University.

Technical Skills

- Cell culture techniques
- Cell transfection with plasmid DNA
- RNA extraction from the cell cultures and tissues
- DNA/protein extraction (from the cell culture and murine tissues)
- Tissue lysing (*TissueLyser- Qiagen*)
- Reverse transcription
- RT-PCR and real time PCR (Rotor-Gene RG-3000 from Corbett Research)
- Protein and nucleic acid electrophoresis
- Western blot analysis (*Biorad*)
- Colorimetric assay (LDH, MTT)
- ELISA for inflammatory mediator, VEGF and adhesion molecules (R&D systems and Bender Med systems)
- Angiogenic assay: Aortic ring assay and Spheroid sprouting assay
- Genetic reporter assay

- Immunofluorescent and histological staining (hematoxylin/eosine and CD31)
- Isolation of Chromosomes from bone marrow and characterization of chromosomal aberrations
- Isolation of Sperms from murine testes and characterization of sperm head abnormalities
- Mitotic index assay
- Computer programs: Microsoft office software, image J and Graph pad
- Analysis of gene expression at mRNA level
- Analysis of gene expression at protein level (ELISA, western blotting, histological and immunofluorescence staining, Luminex platform application)
- Analysis of promoter and transcription factor activities (Colorimetric and fluorimetric reporter assays)
- Gene transfer techniques in cell cultures (plasmids, adenoviral vectors, retroviral vectors, AAV vectors)
- Basics of flow cytometry analysis and sorting using Fortessa flow cytometer (Becton Dickinson), and MoFlo XDP (Beckman coulter)
- Colorimetric, fluorimetric and luminometric assays for functional analysis of cell activities (proliferation, cell cycle, migration, apoptosis, necrosis, production of reactive oxygen species etc.)
- Angiogenic assays *in vitro* and *ex vivo* (tube formation on matrigel, capillary sprouting in endothelial spheroids, ring assay)
- Angiogenic assays *in vivo* (matrigel plaque assay)

Professional Development and Conferences

Professional Development

- 2nd Workshop of the *MIR-TNAGo* International Associated Laboratory on” micro RNAs, mediators of differentiation and biomarkers of diseases”, **Krakow, Poland**. 4-6th December 2014
- Easy thesis and papers writing with EndNote X4 program workshop, Duhok, **Kurdistan Region-Iraq**. 14-15th April 2013
- Calculating an authors H – index workshop, **Duhok, Kurdistan Region-Iraq**. 11th November 2012

- EndNote Reference Management Software – The Complete Reference Solution Workshop, **Duhok, Kurdistan Region-Iraq**. 3rd May 2012
- 2nd Next Generation Sequencing workshop, **Szeged, Hungary**. 6-8th October 2010
- 4th European Vascular Genomic Network (EVGN) Summer School, **Krakow, Poland**. 15-19th September 2008
- 4th European Meeting on Vascular Biology and Medicine, **Bristol, UK**. 17-20th September 2007
- International Workshop of The Physiological Society 15th Symposium of The Jagiellonian Medical Research Centre, **Krakow, Poland**. 9-12th May 2007
- XXXIII Winter School of the Faculty of Biotechnology, **Krynica, Poland**. 28th February - 2nd March 2006
- Molecular mechanisms of tumor-host interactions, Polish-French scientific meeting, **Krakow, Poland**. 22-24th September 2005
- Seminar of the Jagiellonian Medical Research Center on “Atherothrombosis - Diabetes- Vasculopathies”, **Krakow, Poland**. 5-7th June 2005
- XXXII Winter School of the Faculty of Biotechnology entitled “From Molecular Biology to Biotechnology”, **Zakopane, Poland**. 3-7th March 2005

Conferences

- The 3rd Edition of World Congress & Exhibition on Vascular Surgery, **London, UK**. 24-25th May 2018
- The 9th International Conference on Heme Oxygenase, **Prague, Czech Republic**. 14-17th September 2016
- The 2nd Congress BIO 2016 “Expanding beyond the limits”, **Wroclaw, Poland**. 13-16th September 2016
- The 2nd Meeting of Polish Iron Club, **Jastrzębiec, Poland**. 12-13th May 2015
- Frontiers in Stem Cells & Cancer, **Heidelberg, Germany**. 29-31th March 2015
- The 7th International Conference of Contemporary Oncology – Personalized Cancer Medicine & Big Data Analysis, **Poznań, Poland**. 25-27th March 2015
- The 8th International Conference on Heme Oxygenases, BioIron & Oxidative Stress, **Sydney, Australia**. 8-11th October 2014

- The 5th Seminar of Jagiellonian Centre for Experimental Therapy, **Wierchomla, Poland**. 5-8th June 2014
- VI Kongres Współczesnej Onkologii, **Poznań, Poland**. 27-29th March 2014
- The 4th Kurdistan Conference on Biological Science, **Duhok, Kurdistan Region-Iraq**. 8-10th May 2012
- 1st Scientific Agricultural Conference, **Sumail, Duhok, Kurdistan Region-Iraq**. 10-12th April 2012
- 6th International congress on Heme oxygenases "Heme Oxygenases in Biology and Medicine", **Miami Beach, Florida, United States of America**. 30th September- 4th October 2009
- 34th FEBS congress "Life's Molecular Interactions", **Prague, Czech Republic**. 4-9th July 2009
- Central European Congress in Life Sciences "Eurobiotech 2008", **Krakow, Poland**. 17-19th October 2008
- XLIII Congress of Polish Biochemical Society, **Olsztyn, Poland**. 7-11th September 2008
- XIII International Congress of Histochemistry and Cytochemistry, **Gdańsk, Poland**. 23-27th August 2008
- XXXV Szkoła Zimowa Wydziału Biochemii, Biofizyki i Biotechnologii UJ 'Struktura a funkcja białek i kwasów nukleinowych', **Zakopane, Poland**. 23-26th February 2008
- Heme Oxygenases 2007, The 5th International Congress, **Krakow, Poland**. 5-9th September 2007
- Trends in vascular biology. **Brixen, Italy**. 3-5th May 2007
- XXXIV Szkoła Zimowa Wydziału Biochemii, Biofizyki i Biotechnologii UJ, **Zakopane, Poland**. 7-11th March 2007
- IX Cell Biology Conference, **Łódź, Poland**. 15-17th September 2005

Relevant courses attended

Academic year 2004/2005

- Principle and perspectives of gene therapy
- Glycobiology in medicine
- Molecular mechanisms of angiogenesis

- Nuclear receptors in gene regulation and diseases
- Laboratory practice

Academic year 2005/2006

- Gene transfer techniques
- Mechanisms of cell trafficking. From leukocyte homing to metastasis
- Photobiology and photomedicine - biophysical principles
- Laboratory practice

Field of Research

- Vascular biology: mechanisms of angiogenesis and vasculogenesis.
- Medical biotechnology: gene and cell therapy in modulation of neovascularization and inflammation.
- Role of hypoxia in regulation of gene expression.
- Role of heme oxygenase-1 and other antioxidant genes in inflammation and neovascularization in cancer and cardiovascular system.
- Pharmacological modulation of inflammation and neovascularization.

Current Research Interest

- Effect of heme oxygenase-1 (HO-1) on differentiation of mesenchymal stem cells.
- Statins as pharmacological enhancers of proangiogenic activity in human CD34+ progenitor cells.
- Investigation the effect of heme oxygenase-1 (HO-1) on differentiation of progenitor cells.
- Analyze the molecular mechanisms responsible for regulation of hemangioblastic genes and effect of diabetes and antidiabetic drugs on differentiation of hemangioblasts.
- Investigation the role of HO-1 and HO-1-regulated transcription factors (especially c/EBP, PPAR and HIF families) in the diabetes-dependent modulations of stem cell differentiation.
- Investigation the influence of (GT)_n polymorphism of heme oxygenase-1 (HO-1) promoter on human endothelial cells, namely on their angiogenic potential, inflammatory reaction and resistance to oxidative stress.
- Involvement of heme oxygenase-1 (HO-1) pathway in anti-inflammatory activities of PTX *in vitro* and *in vivo*.

Publications

- Jozkowicz A., Was H., **Taha H.**, Kotlinowski J., Mleczko K., Cisowski J., Weigel G., Dulak J. *15d-PGJ2 upregulates synthesis of IL-8 in endothelial cells through induction of oxidative stress.* **Antioxidants Redox Signaling** 10(12):2035-2046 2008.
- M.A. Papiez, A. Cierniak, W. Krzysciak, M. Bzowska, **H.M. Taha**, A. Jozkowicz and M. Piskula. *The changes of antioxidant defense system caused by quercetin administration do not lead to DNA damage and apoptosis in the spleen and bone marrow cells of rats.* **Food and Chemical Toxicology** 46(9):3053–3058 2008.
- Papiez M.A., Dybala M., Sowa-Kucma M., Krzysciak W., **Taha H.**, Jozkowicz A., Nowak G. *Evaluation of oxidative status and depression-like status in Brown Norway rats with acute myeloid leukemia.* **Progress in Neuro-Psychopharmacology and Biological Psychiatry** 33(4):596-604 2009.
- **Taha H.**, Grochot-Przeczek A., Was H., Kotlinowski J., Kozakowska M., Marek A., Skrzypek K., Lackowska B., Balcerczyk A., Mustafa S., Dulak J., Alicja Jozkowicz A. *Modulation of inflammatory response by pentoxifylline is independent of heme oxygenase-1 pathway.* **Journal of physiology and pharmacology** 60(2):3-12 2009.
- **Hevidar Taha**, Klaudia Skrzypek, Ibeth Guevara, Anneliese Nigisch, Stefan Mustafa, Anna Grochot-Przeczek, Pawel Ferdek, Halina Was, Jerzy Kotlinowski, Magdalena Kozakowska, Aneta Balcerczyk, Lucie Muchova, Libor Vitek, Guenter Weigel, Jozef Dulak and Alicja Jozkowicz. *Role of Heme Oxygenase-1 in Human Endothelial Cells. Lesson from the Promoter Allelic Variants.* **Arteriosclerosis, Thrombosis, and Vascular Biology** 30(8):1634-1641 2010.
- Agnieszka Jazwa, Paulina Kucharzewska, Justyna Leja, Anna Zagorska, Aleksandra Sierpniowska, Jacek Stepniewski, Magdalena Kozakowska, **Hevidar Taha**, Takahiro Ochiya, Rafal Derlacz, Elisa Vahakangas, Seppo Yla-Herttuala, Alicja Jozkowicz, Jozef Dulak. *Combined vascular endothelial growth factor-A and fibroblast growth factor 4 gene transfer improves wound healing in diabetic mice.* **Genetic Vaccines and Therapy** 8:6 2010.
- Halina Was, Małgorzata Sokolowska, Aleksandra Sierpniowska, Paweł Dominik, Klaudia Skrzypek, Bożena Lackowska, Antoni Pratnicki, Anna Grochot-Przeczek, **Hevidar Taha**, Jerzy Kotlinowski, Magdalena Kozakowska, Andrzej Mazan, Witold Nowak, Lucie Muchova, Libor Vitek, Anna Ratajska, Jozef Dulak, Alicja Jozkowicz. *Effects of heme oxygenase-1 on induction and development of chemically induced squamous cell carcinoma in mice.* **Free Radicals Biology & Medicine**. 51(9):1717-1726. 2011.

- Agnieszka Jazwa, Mateusz Tomczyk, **Hevidar M Taha**, Elisa Hytonen, Mateusz Stoszek, Lorena Zentilin, Mauro Giacca, Seppo Yla-Herttuala, Costanza Emanuelli, Alicja Jozkowicz and Jozef Dulak. *Arteriogenic therapy based on simultaneous delivery of VEGF-A and FGF4 genes improves the recovery from acute limb ischemia*. **Vascular Cell**. 5(1):13. 2013.
- Jerzy Kotlinowski, Anna Grochot-Przeczek, **Hevidar Taha**, Magdalena Kozakowska, Bartosz Pilecki, Klaudia Skrzypek, Aleksandra Bartelik, Rafal Derlacz, Anton J.G. Horrevoets, Attila Pap, Laszlo Nagy, Jozef Dulak, Alicja Jozkowicz. *PPAR γ activation but not PPAR γ haplodeficiency affects proangiogenic potential of endothelial cells and bone marrow-derived progenitors*. **Cardiovascular Diabetology**. 13:150. 2014.
- Neli Kachamakova-Trojanowska, Witold Nowak, Krzysztof Szade, Jacek Stepniewski, Karolina Bukowska-Strakova, Monika Zukowska, **Hevidar Taha**, Antonina Chmura-Skirlinska, Michael Beilharz, Jozef Dulak, Alicja Jozkowicz. *Generation of functional endothelial cells with progenitor-like features from murine induced pluripotent stem cells*. **Vascular Pharmacology**. 86:94-108. 2016.
- Witold Norbert Nowak, **Hevidar Taha**, Neli Kachamakova-Trojanowska, Jacek Stepniewski, Joanna Agata Markiewicz, Anna Kusienicka, Krzysztof Szade, Agata Szade, Karolina Bukowska-Strakova, Karolina Hajduk, Damian Klóska, Aleksandra Kopacz, Anna Grochot-Przeczek, Kathrin Barthenheier, Camille Cauvin, Józef Dulak and Alicja Józkwicz. *Murine bone marrow mesenchymal stromal cells respond efficiently to oxidative stress despite the low level of heme oxygenases 1 and 2*. **Antioxidants and Redox Signaling**. 29(2): 111-127. 2018.
- Witold Nowak, **Hevidar Taha**, Joanna Markiewicz, Neli Kachamakova-Trojanowska, Jacek Stepniewski, Damian Kloska, Urszula Florczyk, Rafal Nizankowski, Marzena Frołow, Zbigniew Walter, Jozef Dulak and Alicja Jozkowicz. *Atorvastatin and conditioned media from atorvastatin-treated human hematopoietic stem/progenitor-derived cells show proangiogenic activity in vitro but not in vivo*. **Mediators of Inflammation**. In press.
- **Hevidar Taha**. *Effect of pentoxifylline on expression of proinflammatory cytokines*. **Duhok medical Journal**. In press.

Language Abilities

- English: ILR Level 4
- Arabic: ILR Level 5
- Kurdish: ILR Level 5
- Polish: ILR Level 3

REFEREES

- Prof. Alicja Jozkowicz, PhD, DSc, Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland (alicja.jozkowicz@uj.edu.pl)
- Prof. Jozef Dulak, PhD, DSc, Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland (jozef.dulak@uj.edu.pl)