

## Curriculum vitae

Name: Mgr. Monika Baxa  
E-mail: baxa@iapg.cas.cz  
Date of birth: 23rd October, 1982

### EDUCATION

- 2007-present Charles University in Prague, Faculty of Science, Prague, Czech Republic  
A PhD student in the Developmental and cell Biology Program  
Research interest: Neurodegenerative disorders  
PhD Thesis: The Generation of Transgenic Huntington´s disease miniature pig
- 2006-2007 Institute of Animal Physiology and Genetics, v.v.i., Libečov, Czech Republic  
Research Assistant
- 2001-2006 Comenius University, Faculty of Science; Bratislava, Slovak Republic  
Master´s study program in Biotechnology

### FELLOWSHIPS, AWARDS, GRANTS

- 2011 EMBL Master Course: Advanced qPCR Techniques for Publication Success: Following MIQE Recommendation. July 11-15th, EMBL Heidelberg, Germany
- 2011 International Summer School Does size matter? Ethical, societal, legal and biological aspects of large animals as biomedical models. M Baxa. Miniature Pig As A Model for Huntington Disease – When Size Does Matter. October 10-14th, 2011, Freising-Munich, Germany
- 2011 World Congress on Huntington´s Disease 2011, Scientific trainee travel award, Melbourne, Australia, *poster presentation*
- 2011 Internal Grant of the Institute of Animal Physiology and Genetics (IGA IAPG 11/09) Behavioral and MRI studies of transgenic Huntington´s disease miniature pigs
- 2010 Charles University Grant Agency, (GAUK589412)  
A battery of tests for characterization of clinical phenotype in transgenic Huntington´s disease miniature pigs
- 2010 Internal Grant of the Institute of Animal Physiology and Genetics (IGA UZFG 10/10) Behavioral studies of transgenic Huntington´s disease miniature pigs
- 2009 Internal Grant of the Institute of Animal Physiology and Genetics (IGA UZFG 09/08) ALU repetitions as a potential reference gene in evaluation of wild-type and mutant huntingtin expression

- 2008 Internal Grant of the Institute of Animal Physiology and Genetics (IGA UZFG 08/10 Immunocyto/histochemical and western blot characterization of basal ganglia in miniature pig
- 2008 Short-term Fellowship in Laboratory of Stem Cell Biology and Pharmacology of neurodegenerative Diseases, Università degli Studi di Milano, Italy, Prof Elena Cattaneo

### **CONFERENCES WITH POSTER PRESENTATIONS**

- 2017 Huntington's Disease Therapeutics Conference, St. Julian, Malta
- 2016 European HD Network plenary meeting 2016, Hague, Netherland,
- 2015 3rd Conference on Large Animal Models of Neurodegenerative Diseases, Liblice, Czech Republic
- 2013 2nd Conference on Large Animal Models of Neurodegenerative Diseases, Liblice, Czech Republic
- 2011 1st Conference on Large Animal Models of Neurodegenerative Diseases, Liblice, Czech Republic
- 2011 Vth Meeting on the Molecular Mechanisms of Neurodegeneration, Milan, Italy,
- 2011 World Congress on Huntington's Disease 2011, Melbourne, Australia,
- 2010 EHA: 13th Congress on HD, Prague, Czech Republic – *Invited lecture*
- 2010 European HD Network plenary meeting 2010, Prague, Czech Republic,
- 2009 IVth Meeting on the Molecular Mechanisms of Neurodegeneration, Milan, Italy
- 2009 World Congress on Huntington's Disease 2009, Vancouver, Canada,
- 2008 European HD Network plenary meeting 2008, Lisboa, Portugal

### **OTHER ACTIVITIES**

Active collaboration with Czech Huntington Association – lectures for HD patients and families in plain language

Active member of Czech Huntington Association

2016-2017 Vice-president of Czech Huntington Association

Active member of European Huntington's Disease Network

## PUBLICATION LIST

Askeland, G., Rodinova, M., Štuřková, H., Dosoudilova, Z., **Baxa, M.**, Smatlikova, P., Bohuslavova, B., Klempir, J., Nguyen, T. D., Kuśnierczyk, A., Bjoras, M., Klungland, A., Hansikova, H., Ellederova, Z., and Eide, L. (2018). **A transgenic minipig model of Huntington's disease shows early signs of behavioral and molecular pathologies.** *Disease Models & Mechanisms* 11, dmm035949.

**IF 4.398**

Vidinská, D., Vochozková, P., Šmatlíková, P., Ardan, T., Klíma, J., Juhás, Š., Juhásová, J., Bohuslavová, B., **Baxa, M.**, Valeková, I., Motlík, J., and Ellederová, Z. (2018). **Gradual Phenotype Development in Huntington Disease Transgenic Minipig Model at 24 Months of Age.** *Neurodegenerative diseases* 18, 107–119.

**IF 2.785**

Macakova, M., Bohuslavova, B., Vochozkova, P., Pavlok, A., Sedlackova, M., Vidinska, D., Vochyanova, K., Liskova, I., Valekova, I., **Baxa, M.**, Ellederova, Z., Klima, J., Juhas, S., Juhasova, J., Klouckova, J., Haluzik, M., Klempir, J., Hansikova, H., Spacilova, J., Collins, R., Blumenthal, I., Talkowski, M., Gusella, J., Howland, D.S., DiFiglia, M., and Motlik, J. (2016). **Mutated Huntingtin Causes Testicular Pathology in Transgenic Minipig Boars.** *Neurodegenerative diseases* 16, 245–59.

**IF 2.842**

Tykalova, T., Hlavnicka, J., Macakova, M., **Baxa, M.**, Cmejla, R., Motlik, J., Klempir, J., and Ruzs, J. (2015). **Grunting in a Genetically Modified Minipig Animal Model for Huntington's Disease – a Pilot Experiments.** *Ces a Slov Neurol a Neurochir*, 78/111(Suppl 2):61-65.

**IF 0.209**

**Baxa, M.**, Hruska-Plochan, M., Juhas, S., Vodicka, P., Pavlok, A., Juhasova, J., Miyano-hara, A., Nejime, T., Klima, J., Macakova, M., Marsala, S., Weiss, A., Kubickova, S., Musilova, P., Vrtel, R., Sontag, E.M., Thompson, L.M., Schier, J., Hansikova, H., Howland, D.S., Cattaneo, E., DiFiglia, M., Marsala, M., and Motlik, J. (2013). **A Transgenic Minipig Model of Huntington's Disease.** *Journal of Huntington's Disease* 2, 47–68.

### Submitted publications

**Baxa, M.**, Levinska, B., Skrivankova, M., Pokorny, M., Juhasova, J., Klima, J., Klempir, J., Motlik, J., Juhas, S., and Ellederova, Z. (2019). **Longitudinal study revealed motor, cognitive, and behavioral decline in transgenic minipig model of Huntington's disease.** Disease Models & Mechanisms, **submitted**; MS ID#: DMM/2019/041293.

IF = 4.398

Ardan, T., **Baxa, M.**, Levinska, B., Sedlackova, M., Nguyen, T.D., Klima, J., Juhas, S., Juhasova, J., Smatlikova, P., Vochozkova, P., Motlik, J., and Ellederova, Z. (2019). **Transgenic minipig model of Huntington's disease exhibiting gradually progressing neurodegeneration.** Disease Models & Mechanisms, **submitted**; MS ID#: DMM/2019/041319.

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