

Lista de Publicatii:

Tudor Constantin Badea, M.D., M.A., Ph.D.

Candidat Cercetator Stiintific Gradul II, ICDT al Universitatii Transilvania din Brasov

Teza De Doctorat:

Tudor Constantin Badea (2004) A genetic strategy for the study of neuronal cell types and their development. PhD Dissertation, Johns Hopkins University, School of Medicine, Biochemistry, Cell and Molecular Biology Program. Advisor : Jeremy Nathans.

Capitole De Carte

1. Niculescu, F., **Badea, T.**, and Rus, H., (1998) Sublytic C5b-9 complexes induce proliferation of human aortic smooth muscle cells. Role of mitogen activated protein kinase and phosphatidylinositol 3-kinase. Proceedings of XIII World Congress of Cardiology. Monduzzi Editore, Bologna, pp1185-1190.
2. **Badea T.C.** and Nathans J. (2008) New genetic technologies for studying the morphology, physiology, and development of mouse retinal neurons. Eye, Retina, and Visual System of the Mouse. Chalupa, L.M. and Williams, R.W., Editors. MIT Press, Cambridge, Massachussets ISBN: 9780262033817.

Articole/ studii publicate în reviste de specialitate de circulație internațională

- 1: Cristea A, **Badea T**, Bodizs G, and Olinic N. Antineutrophil cytoplasmic autoantibodies (ANCA): Markers in diagnosis and monitoring systemic vasculitides. *Revue Roumaine de Medecine Interne* 1995a 33: 37-46, **CITATII : 1**
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- 3: Lang T, **Badea T**, Wade R, and Shin M. Sublytic terminal complement attack on myotubes decreases the expression of mRNAs encoding muscle-specific proteins. *Journal of Neurochemistry* 1997 68: 1581-1589, DOI: 10.1046/j.1471-4159.1997.68041581.x. **CITATII : 21**
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- 5: Badea T**, Niculescu F, Soane L, Shin M, and Rus H. Molecular cloning and characterization of RGC-32, a novel gene induced by complement activation in oligodendrocytes. *Journal of Biological Chemistry* 1998 273: 26977-26981, DOI: 10.1074/jbc.273.41.26977. **CITATHI : 76**
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- 11: Badea T**, Wang Y, and Nathans J. A noninvasive genetic/pharmacologic strategy for visualizing cell morphology and clonal relationships in the mouse. *Journal of Neuroscience* 2003b 23: 2314-2322, **CITATHI : 181**
- 12: Badea T**, and Nathans J. Quantitative analysis of neuronal morphologies in the mouse retina visualized by using a genetically directed reporter. *Journal of Comparative Neurology* 2004 480: 331-351, DOI: 10.1002/cne.20304. **CITATHI : 172**
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- 14:** Wang Y, **Badea T (co-first author)**, and Nathans J. Order from disorder: Self-organization in mammalian hair patterning. *Proceedings of the National Academy of Sciences of the United States of America* 2006 103: 19800-19805, DOI: 10.1073/pnas.0609712104. **CITATHI : 64**
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Studii publicate în volumele unor manifestări științifice internaționale (rezumate de prezentări orale sau poster)

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Proiecte/Granturi:

Am fost investigator principal (conducător de proiect) la 9 proiecte anuale in perioada 2010- 2019 , in valoare de 12621125.00 US\$ obținute de la National Institute of Health / National Eye Institute. Pot fi vizualizate la linkurile:

<https://grantome.com/search?q=@author%20%20Tudor%20Badea>

si

https://projectreporter.nih.gov/project_info_history.cfm?aid=10020011&icde=0

Project Title	Institute	Project Number	Year
1) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-09	2019
2) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-08	2018
3) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-07	2017
4) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-06	2016
5) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-05	2015
6) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-04	2014
7) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-03	2013
8) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-02	2012
9) Retinal Circuit Development & Genetics	NEI	1ZIAEY000504-01	2011

Patente/Instrumentar Tehnic:

([US8227194B2](#)) Monoclonal antibodies with binding specificity for response gene to complement 32 (RGC-32) Inventors: Rus, Horea, Badea, Tudor Fosbrink, Matthew. Official Gazette of the United States Patent and Trademark Office Patents University of Maryland Baltimore, 2012.

Aparatura pentru studiul reflexelor optokinetice in animale de laborator, dezvoltata de Dr. Kretschmer, fost cercetator postdoctoral in grupul nostru este in prezent comercializata de compania Phenosys, sub numele de qOMR (<https://www.phenosys.com/innovations/visual-acuity-mice/>).

Generat peste 10 linii de soareci modificati genetic care sant distribuite in toata lumea, si in parte mentinute de repozitoriul Jackson laboratory (www.jax.org)

Articole/ studii depozitate pe servere de preprint sau in revizie la diferite jurnale:

P1: Muzyka, VV, **Badea TC**. Genetic Interplay Between Transcription Factor Pou4f1/Brn3a and Neurotrophin Receptor Ret In Retinal Ganglion Cell Type Specification. *bioRxiv*, no. (2020): 2020.03.23.004242. doi: <https://doi.org/10.1101/2020.03.23.004242>

P2: Oliver KM, Florez-Paz DM, **Badea TC**, Mentis GZ, Menon V, de Nooij JC. Molecular development of muscle spindle and Golgi tendon organ sensory afferents revealed by single proprioceptor transcriptome analysis. *bioRxiv*, no. (2020): 2020.04.03.023986. doi: <https://doi.org/10.1101/2020.04.03.023986>

P3: Brodie-Kommit J., Clark BS, Shi Q, Shiao F, Kim DW, Langel J, Sheely C, Schmidt T, **Badea T**, Glaser T, Zhao H, Singer S, Blackshaw S, Hattar S. Atoh7-independent specification of retinal ganglion cell identity. *bioRxiv*, no. (2020): 2020.05.27.116954. doi: <https://doi.org/10.1101/2020.05.27.116954>

P4: Mao CA, Chen CK, Kiyama T, Weber N, Whitaker CM, Pan P, **Badea TC**, Massey SC (2020). Tbr2-expressing retinal ganglion cells are ipRGCs. *bioRxiv*: 2020.2006.2017.153551. doi: <https://doi.org/10.1101/2020.06.17.153551>

P5: Chuang JZ, Yang N, Otsu W, Fu C, Nakajima N, Yang HH, Lee MP, Akbar AF, **Badea TC**, Guo Z, Nuruzzaman A, Hsu KS, Dunaief JL, Sung CH (2020). Modeling and mechanistic investigation of a novel dry AMD 1 mouse model with CLIC4 deleted in RPE, under Review

P6: Tatomir A, Beltrand A, Nguyen V, Boodhoo D, Mekala A, Cudrici C, **Badea TC**, Muresanu DF, Rus V, Rus H (2020) RGC-32 regulates generation of reactive astrocytes in experimental autoimmune Encephalomyelitis. under Review

P7: Luzina IG, Rus V, Lockatell V, Courneya JP, Fischelevich R, Misharin AV, Todd NW, **Badea TC**, Rus, H, Atamas SP (2020) RGCC/RGC-32 protein protects against pulmonary fibrosis. JBC Under Review.

Data 25/11/2020

Semnătura

