

## **Lista de Publicatii (Anexa la Teza de abilitare):**

### **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.

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

1: 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 (2021). Modeling and mechanistic investigation of a novel dry AMD 1 mouse model with CLIC4 deleted in RPE, Nature Communications accepted

2: Layer-specific developmentally precise axon targeting of transient suppressed-by-contrast retinal ganglion cells (tSbC RGCs) Tien NW, **Badea TC**, Kerschensteiner D, bioRxiv 2021.11.26.470118; doi: <https://doi.org/10.1101/2021.11.26.470118>

3: Zfp503/Nlz2 is Required for RPE Differentiation and Optic Fissure Closure (2021) Boobalan E, Thompson AH, Alur RP, Dong L, Shih G, Vieta-Ferrer ER, Onojafe IF, Arno G, Lotery AJ, Guan B, Bender C, Memon O, Brinster L, Soleilhavoup C, Panman L, Badea TC, Minella A, Lopez AJ, Thomasy S, Moshiri A, Genomics England Research Consortium, Blain D, Hufnagel RB, Cogliati T, Bharti K, Brooks BP In review

4: RGC-32' dual role in smooth muscle cells and atherogenesis. Sonia I. Vlaicu SI, Tatomir A, Fosbrink M, Nguyen V, Boodhoo D, **Badea TC**, Rus V, Rus H. Under Review

### **Articole/ studii publicate în reviste de specialitate de circulație internațională (peer reviewed WOS core collection)**

1. Goel M, Aponte AM, Wistow G, **Badea TC**. (2021) Molecular studies into Copine-4 function in Retinal Ganglion Cells, *PLOSOne*, 16(11): e0255860, doi: 10.1371/journal.pone.0255860 & *bioRxiv*(2021), doi: [10.1101/2021.08.09.455730](https://doi.org/10.1101/2021.08.09.455730) .
2. Liu S, Aldinger KA, Cheng CV, Kiyama T, Dave M, McNamara HK, Caraffi SG, Ivanovski I, Errichiello E, Zweier C, Zuffardi O, Schneider M, Papavasiliou AS, Perry MS, Humberson J, Cho MT, Weber A, Swale A, **Badea TC**, Mao C-A, Garavelli L, Dobyns WB, and Reinberg D. (2021) NRF1 Association with AUTS2-Polycomb Mediates Specific Gene Activation in the Brain. *Mol Cell*. Vol 81 (22): 4663-4676.e8 Nov 18. doi: 10.1016/j.molcel.2021.09.020. & *bioRxiv*, (2021): doi: 10.1101/2021.03.30.437620

3. Luzina IG, Rus V, Lockett V, Courneya JP, Hampton BS, Fischelevich R, Misharin AV, Todd NW, **Badea TC**, Rus, H, Atamas SP (2021) Regulator of Cell Cycle protein (RGCC/RGC-32) protects against pulmonary fibrosis. *American Journal of respiratory Cell and Molecular Biology* (AJRCMB) 2021 Oct 20. doi: 10.1165/rcmb.2021-0022OC (online ahead of print).
4. Muzyka, VV, **Badea TC**. (2021) Genetic Interplay Between Transcription Factor Pou4f1/Brn3a and Neurotrophin Receptor Ret In Retinal Ganglion Cell Type Specification. *Neural Development* vol 16: 5 September 21, & *bioRxiv*, no. (2020): 2020.03.23.004242. doi: 10.1101/2020.03.23.004242.
5. Tatomir A, Beltrand A, Nguyen V, Courneya, JP, Boodhoo D, Cudrici C, Muresanu DF, Rus V, **Badea TC**, Rus H (2021) RGC-32 acts as a hub to regulate the transcriptomic changes associated with astrocyte development and reactive astrogliosis. *Frontiers in Immunology* – Jul 29;12:705308. doi: 10.3389/fimmu.2021.705308. eCollection 2021. <https://doi.org/10.3389/fimmu.2021.705308>
6. Chen CK, Kiyama T, Weber N, Whitaker CM, Pan P, **Badea TC**, Massey SC, Mao CA (2021). Characterization of Tbr2-expressing retinal ganglion cells, *J Comp Neurol* 2021 doi: <https://doi.org/10.1002/cne.25208> & *bioRxiv*: 2020.2006.2017.153551. <https://doi.org/10.1101/2020.06.17.153551>
7. Brodie-Kommit J, Clark BS, Shi Q, Shiao F, Kim DW, Langel J, Sheely C, Ruzycki PA, Fries M, Javed A, Cayouette M, Schmidt T, **Badea T**, Glaser T, Zhao H, Singer J, Blackshaw S, Hattar S. Atoh7-independent specification of retinal ganglion cell identity. *Sci Adv*. 2021 Mar 12;7(11):eabe4983. doi: 10.1126/sciadv.abe4983.& *bioRxiv*, no. (2020): 2020.05.27.116954. doi: 10.1101/2020.05.27.116954
8. Oliver KM, Florez-Paz DM, **Badea TC**, Mentis GZ, Menon V, de Nooij JC. (2021) Molecular development of muscle spindle and Golgi tendon organ sensory afferents revealed by single proprioceptor transcriptome analysis. *Nature Communications* Mar 1; 12(1):1451 doi: 10.1038/s41467-021-21880-3 & *bioRxiv*, no. (2020): 2020.04.03.023986. doi: 10.1101/2020.04.03.023986.
9. Tatomir A, Beltrand A, Nguyen V, Boodhoo D, Mekala A, Cudrici C, **Badea TC**, Muresanu DF, Rus V, Rus H (2021) RGC-32 regulates generation of reactive astrocytes in experimental autoimmune Encephalomyelitis. *Frontiers in Immunology* – Jan 25, doi: 10.3389/fimmu.2020.608294
10. Parmhans N, Fuller AD, Nguyen E, Chuang K, Swygart DI, Wienbar SR, Lin T, Kozmik Z, Dong L, Schwartz GW, **Badea TC** (2020). "Identification of Retinal Ganglion Cell Types and Brain Nuclei expressing the transcription factor Brn3c/Pou4f3 using a Cre recombinase knock-in allele." *J Comp Neurol*. 2021 Jun;529(8):1926-1953. doi: 10.1002/cne.25065. Epub 2020 Nov 10.
11. Lees RN, Akbar AF, **Badea TC** (2020). "Retinal Ganglion Cell defects cause decision shifts in visually evoked defense responses". *J. Neurophysiology*, 2020 Nov 1;124(5):1530-1549. doi: 10.1152/jn.00474.2019. Epub 2020 Sep 30.

12. Gheorghiu M, Stănică L, Ghinia Tegla MG, Polonschii C, Bratu D, Popescu O, **Badea T, (co-corresponding author)** Gheorghiu E. Cellular sensing platform with enhanced sensitivity based on optogenetic modulation of cell homeostasis. *Biosens Bioelectron.* 2020 Apr 15;154:112003. doi: 10.1016/j.bios.2019.112003. Epub 2019 Dec 31.
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17. Muzyka VV, Brooks M, **Badea T.C.** Postnatal developmental dynamics of cell type specification genes in Brn3a/Pou4f1 Retinal Ganglion Cells. *Neural Dev.* 2018 Jun 29;13(1):15. doi: 10.1186/s13064-018-0110-0.
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