

**Dr. András Dinnyés – Publication list of full papers and book chapters**

**Publications No.:** 187 *full papers and book chapters*; **Impact factor:** 495,639

**Total citations** *MTMT*: 2887, **Independent citations:** 2349, **Total citations:** 3826 *Scopus*, 6173 *Google scholar*

**H-index:** 31 *Scopus*, 38 *Google Scholars*

**A) English language full papers (147):**

**2018 - Impact Factor: 18,325**

1. Murphy C, Mobasher A, Táncoš Z, Kobolák J, **Dinnyés A** The Potency of Induced Pluripotent Stem Cells in Cartilage Regeneration and Osteoarthritis Treatment. *Adv Exp Med Biol* 2018 doi: 10.1007/5584\_2017\_141.
2. Bonnet-Garnier A, Kiêu K, Aguirre-Lavin T, Tar K, Flores P, Liu Z, Peynot N, Chebrou M, **Dinnyés A**, Duranthon V, Beaujean N Three-dimensional analysis of nuclear heterochromatin distribution during early development in the rabbit. *Chromosoma* 2018 Sep;127(3) pp:387-403 doi: 10.1007/s00412-018-0671-z
3. Jantsch MF, Quattrone A, O'Connell M, Helm M, Frye M, Macias-Gonzales M, Ohman M, Ameres S, Willems L, Fuks F, Oulas A, Vanacova S, Nielsen H, Bousquet-Antonelli C, Motorin Y, Roignant JY, Balatsos N, **Dinnyés A**, Baranov P, Kelly V, Lamm A, Rechavi G, Pelizzola M, Liepins J, Holodnuka Kholodnyuk I, Zammit V, Ayers D, Drablos F, Dahl JA, Bujnicki J, Jeronimo C, Almeida R, Neagu M, Costache M, Bankovic J, Banovic B, Kyselovic J, Valor LM, Selbert S, Pir P, Demircan T, Cowling V, Schäfer M, Rossmanith W, Lafontaine D, David A, Carre C, Lyko F, Schaffrath R, Schwartz S, Verdel A, Klungland A, Purta E, Timotijevic G, Cardona F, Davalos A, Ballana E, O Carroll D, Ule J, Fray R Positioning Europe for the EPITRANSCRIPTOMICS challenge. *RNA Biol* 2018 May 9 pp: 1-3 doi: 10.1080/15476286.2018.1460996.
4. Pamies D, Bal-Price A, Chesné C, Coecke S, **Dinnyés A**, Eskes C, Grillari R, Gstraunthaler G, Hartung T, Jennings P, Leist M, Martin U, Passier R, Schwamborn JC, Stacey GN, Ellinger-Ziegelbauer H, Daneshian M Advanced Good Cell Culture Practice for human primary, stem cell-derived and organoid models as well as microphysiological systems. *ALTEX*. 2018;35(3) pp:353-378 doi: 10.14573/altex.1710081
5. Bernardo AS, Jouneau A, Marks H, Kensche P, Kobolák J, Freude K, Hall V, Feher A, Polgar Z, Sartori C, Bock I, Louet C, Faial T, Kerstens HHD, Bouissou C, Parsonage G, Mashayekhi K, Smith JC, Lazzari G, Hyttel P, Stunnenberg HG, Huynen M, Pedersen RA, **Dinnyés A** Mammalian embryo comparison identifies novel pluripotency genes associated with the naïve or primed state. *Biol Open* 2018 Aug 17;7(8) doi: 10.1242/bio.033282.

**2017- Impact Factor:29,056**

1. Barontim L., Hošek, T., Gil-Caballero, S., Raveh-Amit, H., Calçada, E.O., Ayala, I., **Dinnyés, A.**, Felli, I.C., Pierattelli, R. A fragment-based NMR study provides atomic-resolution information on the conformational dynamics in the proneural bHLH transcription factor Ascl1. *Biophysical Journal* 112:7, pp: 1366–1373 11-Apr-2017 online doi: 10.1016/j.bpj.2017.02.025. D1
2. Szebeni, J.G, Tancos, Zs., Feher, I.Z., Alfoldi, R., Kobolák, J., Dinnyés, A, Puskas L.G. Real architecture For 3D Tissue (RAFTTM) culture system improves viability and maintains insulin and glucagon production of mouse pancreatic islet cells. *Cytotechnology* 69(2):359-369 2017; DOI: 10.1007/s10616-017-0067-6 Q2
3. Takacs E, Boto P, Emilia Simo, Csuth TI, Toth BM, Raveh-Amit H, Pap A, Kovács EG, Kobolák J, Benkő S, **Dinnyés, A.**, Szatmari I. Immunogenic Dendritic Cell Generation from Pluripotent Stem Cells by Ectopic Expression of Runx3 *Journal of Immunology* 198:(1):239-248.2017DOI: <https://doi.org/10.4049/jimmunol.1600034> D1
4. Táncoš Zs, Nemes, Cs, Varga, E, Bock, I., Rungarunlert, S., Tharasanit, T, Techakumphu, M, Kobolák, J, **Dinnyés, A.** Establishment of a rabbit induced pluripotent stem cell (RbiPSC) line using lentiviral delivery of human pluripotency factors *Stem Cell Research* 21: pp. 16-18. 2017 DOI: <https://doi.org/10.4049/jimmunol.1600034> Q1
5. Varga E, Nemes, Cs, Bock, I, Táncoš, Zs, Berzsenyi, S, Lévy, Gy, Román, V, Kobolák, J., **Dinnyés, A.** Establishment of an induced pluripotent stem cell (iPSC) line from a 9-year old male with autism spectrum disorder (ASD) *Stem Cell Research* 21: pp. 19-22. May 2017 DOI: <https://doi.org/10.4049/jimmunol.1600034> Q2

6. Phathong, P., Borwornpinyo, S., Kitiyanant, N., Jearawiriyapaisarn, N., Nunzakarn, L., Saetan, J. Nualkaew, T. Sa-Ngiamsumtorn, K., Anurathapan, U., **Dinnyes, A.**, Kitiyanant, Y., Hongeng, S. Enhancement of b-Globin Gene Expression in Thalassemic IVS2-654 Induced Pluripotent Stem Cell-Derived Erythroid Cells by Modified U7 snRNA *Stem Cells Translational Medicine* online 18 February 2017 Q1
7. Secher, J.O., Ceylan, A., Mazzoni, G., Mashayekhi, K., Li, T., Muenthaisong, S., Nielsen, T.T., Li, D., Li, S., Petkov, S., Cirera, S., Luo, Y., Thombs, L., Kadarmideen, H., N., **Dinnyes, A.**, Bolund, L., Roelen, B. A. J., Schmidt, M., Callesen, H., Hyttel, P., Freude, K.K Systematic in Vitro and in Vivo Characterization of Leukemia-Inhibiting Factor- And Fibroblast Growth Factor-Derived Porcine Induced Pluripotent *Stem Cells Molecular Reproduction & Development* 84:3, pp:229-245 online 3 January 2017 Q2
8. Schmidt B.Z., M. Lehmann, S. Gutbier, E. Nembo, S. Noel, L. Smirnova, A. Forsby, J. Hescheler, H. X. Avci, T. Hartung, M. Leist, J. Kobolák, **A. Dinnyés**. In Vitro Acute and Developmental Neurotoxicity Screening: An Overview of Cellular Platforms and High-Throughput Technical Possibilities. *Archives of Toxicology* 04 August 2016 online pp: 1-33. Doi: 10.1007/s00204-016-1805-9, Q1
9. Nagy, J. K., S Berzsenyi, Z Ábrahám, H X Avci, I Bock, Z Bekes, B Hodoscsek, A Chandrasekaran, A Téglási, P Dezsői, B Koványi, E T Vörös, L Fodor, T Szél, K Németh, A Balázs, **A Dinnyés**, B Lendvai, G Lévy, V Román Altered neurite morphology and cholinergic function of induced pluripotent stem cell-derived neurons from a patient with Kleefstra syndrome and autism." *Translational Psychiatry* 7(e1179) Published online 25 July 2017 doi: 10.1038/tp.2017.144 Q1
10. Ma Q., Y., Fu, H., Sun, Y., Huang, L., Li, Q., Yu, **A., Dinnyes, Q.** Sun. Antimicrobial resistance of Lactobacillus spp. from fermented foods and human gut. *LWT - Food Science and Technology*. Available online 1 August 2017, 86pp:201-208 doi: 10.1016/j.lwt.2017.07.059
11. Chandrasekaran, A, Avci, HX, Ochalek, A, Rösingh, LN, Molnár, K, László, L, Bellák, T, Téglási, A, Pesti, K, Mike, A, Phanthong, Biro, O, Hall, V, Kitiyanant, N, Krause, KH, Kobolák, **J Dinnyés A** . Comparison of 2D and 3D neural induction methods for the generation of neural progenitor cells from human iPSCs. *Stem Cell Research*, 2017 25:139-151; doi: 10.1016/j.scr.2017.10.010
12. Ochalek, A; B Mihalik; HX. Avci; A Chandrasekaran; A Téglási; I Bock; M L Giudice; Z Tánkos; K Molnár; L László; JE Nielsen; B Holst; K Freude; P Hyttel; J Kobolák; **A Dinnyes** Neurons derived from sporadic Alzheimer's disease iPSCs reveal elevated TAU hyperphosphorylation, increased amyloid levels and GSK3B activation. *Alzheimer's Research & Therapy*; 2017;9(1):90. doi: 10.1186/s13195-017-0317-z

## 2016 - Impact Factor:85,749

1. Ochalek, A., Szczesna, K., Petazzi, P., Kobolák, J., **Dinnyes, A.** Generation of Cholinergic and Dopaminergic Interneurons from Human Pluripotent Stem Cells as a Relevant Tool for In Vitro Modeling of Neurological Disorders Pathology and Therapy *Stem Cells International* 2016 pp. 1-16 doi: 10.1155/2016/5838934., Q2
2. Varga, E., Nemes, Cs., Tánkos, Zs., Bock, I., Berzsenyi, S., Lévy, Gy., Román, V., Kobolák, J., Dinnyés, A. Establishment of EHMT1 mutant induced pluripotent stem cell (iPSC) line from a 11-year-old Kleefstra syndrome (KS) patient with autism and normal intellectual performance. *Stem Cell Research* 10/2016; 17(3). DOI:10.1016/j.scr.2016.09.031, Q1
3. Varga, E., Nemes, Cs., Kovács, E., Bock, I., Varga, N., Fehér, A., **Dinnyés, A.**, Kobolák, J. Generation of human induced pluripotent stem cell (iPSC) line from an unaffected female carrier of Mucopolysaccharidosis Type II (MPS II) disorder. *Stem Cell Research* 10/2016; 17(3). DOI:10.1016/j.scr.2016.09.035, Q1

4. Varga, E., Nemes, Cs., Kovács, E., Bock, I., Varga, N., Fehér, A., **Dinnyés, A.**, Kobilák, J. Generation of Mucopolysaccharidosis type II (MPS II) human induced pluripotent stem cell (iPSC) line from a 1-year-old male with pathogenic IDS mutation. *Stem Cell Research* 10/2016; 17(3). DOI:10.1016/j.scr.2016.09.033, Q1
5. Varga, E., Nemes, Cs., Kovács, E., Bock, I., Varga, N., Fehér, A., Kobilák, J. **Dinnyés, A.** Generation of Mucopolysaccharidosis type II (MPS II) human induced pluripotent stem cell (iPSC) line from a 3-year-old male with pathogenic IDS mutation. *Stem Cell Research* 10/2016; 17(3). DOI:10.1016/j.scr.2016.09.032, Q1
6. Takacs, E., Boto, P., Simo, E., Csuth, T. I., Toth, B. M., Amit, H. R., Pap, A., Kovacs, E. G., Kobilak, J., Benko Sz., **Dinnyes, A** Szatmari, I. Immunogenic Q:1; 2; 3 Dendritic Cell Generation from Pluripotent Stem Cells by Ectopic Expression of Runx3 *The Journal of Immunology* 2016 ;198(1):239-248. doi:10.4049/jimmunol.1600034, Q1
7. Varga E, Bock, I., Varga, N., Fehér, A., Kobilák, J., **Dinnyés, A.** Generation of Mucopolysaccharidosis Type II (MPS II) human induced pluripotent stem cell (iPSC) line from a 7-year-old male with pathogenic IDS mutation *Stem Cell Research* 17:(3) pp. 463-465. 1 October 2016 doi: doi.org/10.1016/j.scr.2016.09.032, Q1
8. Chandrasekaran, A., Avci, H. X., Leist, M., Kobilák, J., **Dinnyés, A.** Astrocyte Differentiation of Human Pluripotent Stem Cells: New Tools for Neurological Disorder Research. *Frontiers in Cellular Neuroscience* 10, no. 215 26 September 2016 pp: 1-27. doi: 10.3389/fncel.2016.00215, Q1
9. Franco S. S., Szczesna, K., Iliou. M., Al-Qahtani, M., Mobasheri, A., Kobilák, J., **Dinnyés, A.**, "In Vitro Models of Cancer Stem Cells and Clinical Applications ". *BMC Cancer* Volume 16, no. Supplement 2, pp:24-49 30 September 2016. Doi: 10.1186/s12885-016-2774-3, Q1
10. Bock, I., Németh, K., Pentélnyi, K., Balicza, P., Balázs, A., Molnár, M. J., Románd, V, Nagy, J., Lévy, Gy., Kobilák, J., **Dinnyés, A.** Targeted Next Generation Sequencing of a Panel of Autism-Related Genes Identifies an Ehmt1 Mutation in a Kleefstra Syndrome Patient with Autism and Normal Intellectual Performance. *Gene* P:131-141, 2016, doi: dx.doi.org/10.1016/j.gene.2016.09.027, Q2
11. Zhou S, Ochalek A, Szczesna K, Avci HX, Kobilák J, Varga E, Rasmussen M, Holst B, Cirera S, Hyttel P, Freude KK, **Dinnyes, A** The positional identity of iPSC-derived neural progenitor cells along the anterior-posterior axis is controlled in a dosage-dependent manner by bFGF and EGF. *Differentiation* S0301:(4681) pp. 30053-30060. 16 June 2016 doi: 10.1016/j.diff.2016.06.002, Q2
12. Chandrasekaran, A., Varga, E., Nemes, Cs., Táncos, Zs., Kobilák, J., **Dinnyés. A.** Establishment of Induced Pluripotent Stem Cell (Ipsc) Line from a 63-Year Old Patient with Late Onset Alzheimer's Disease (Load). *Stem Cell Research* 17 2016 pp: 75–77, doi: 10.1016/j.scr.2016.05.014, Q1
13. Táncos Zs., E., Varga, E., Kovács, A., **Dinnyés, J.**, Kobilák Establishment of induced pluripotent stem cell (iPSC) line from a 75-year old patient with late onset Alzheimer's disease (LOAD) *Stem Cell Research* 17:(1) pp. 81-83. 24 May 2016 doi: 10.1016/j.scr.2016.05.013, Q1
14. Nemes Cs., E., Varga, Zs., Táncos, I., Bock, B., Francz, J., Kobilák, A., **Dinnyés.** "Establishment of Psen1 Mutant Induced Pluripotent Stem Cell (Ipsc) Line from an Alzheimer's Disease (Ad) Female Patient." *Stem Cell Research* 7 (1) 2016 pp. 69–71. doi:10.1016/j.scr.2016.05.019, Q1
15. Ochalek A., Cs., Nemes, E., Varga, Zs., Táncos, J., Kobilák, A., **Dinnyés** Establishment of induced pluripotent stem cell (iPSC) line from a 57-year old patient with late onset Alzheimer's disease (LOAD) *Stem Cell Research* 17 25 May, 2016 pp: 72–74, doi: doi:10.1016/j.scr.2016.05.020, Q1
16. Kobilak J , **Dinnyes, A.**, Memic, A., , Khademhosseini, A., Mobasheri, A. Mesenchymal stem cells: Identification, phenotypic characterization, biological properties and potential for regenerative

medicine through biomaterial micro-engineering of their niche. *Methods* 99:(8) pp. 1560-1561. 2016 doi: 10.1016/j.ymeth.2015.09.016., Q1

17. Li T., C., Pires, T.T., Nielsen, G., Waldemar, L.E., Hjermland, J. E. Nielsen, **A., Dinnyes, B.**, Holst, P., Hyttel, K., K. Freude. Generation of Induced Pluripotent Stem Cells (Ipscs) from an Alzheimer's Disease Patient Carrying a M146i Mutation in Psen1. *Stem Cell Research*, 2016. 16,(2) March 2016, pp:334–337, doi:10.1016/j.scr.2016.01.001, Q1
18. Zhou S., K. Szczesna, A. Ochalek, J. Kobilák, E. Varga, Cs. Nemes, A. Chandrasekaran, M. Rasmussen, S. Cirera, P. Hyttel, **A. Dinnyés, K.K. Freude, H. X. Avci** Neurosphere based differentiation of human iPSC improves astrocyte differentiation *Stem Cells International* 2: pp. 1-15, 2016 doi: 10.1155/2016/4937689, Q2
19. Li T., C., Pires, T.T., Nielsen, G., Waldemar, L.E., Hjermland, J. E. Nielsen, **A., Dinnyes, B.**, Holst, P., Hyttel, K., K. Freude. "Generation of Induced Pluripotent Stem Cells (Ipscs) from an Alzheimer's Disease Patient Carrying a A79v Mutation in Psen1." *Stem Cell Research* 12 January 2016. doi: 10.1016/j.scr.2016.01.002, Q1

### 2015- Impact Factor:22,951

1. Ujhelly, O., Szabo, V., Kovacs, G., Vajda, F., Mallok, S., Prorok, J., Acsai, K., Hegedus, Z., Krebs, S., **Dinnyes, A.**, Purity, MK. Lack of Rybp in Mouse Embryonic Stem Cells Impairs Cardiac Differentiation. *Stem Cells Development*. 2015 15;24(18):2193-205. doi:10.1089/scd.2014.0569. **IF: 4,20**
2. Lunardi, FO., Chaves RN, de Lima, LF., Araújo, VR., Brito, IR., Souza, CE., Donato, MA., Peixoto, CA., **Dinnyes, A.**, Campello, CC., de Figueiredo, JR., Rodrigues, AP. Vitrified sheep isolated secondary follicles are able to grow and form antrum after a shortperiod of in vitro culture. *Cell and Tissue Research*. 2015 Oct;362(1):241-51. doi: 10.1007/s00441-015-2181-0
3. Tánkos, Z., Bock, I., Nemes, C., Kobilák, J., **Dinnyés, A.** Cloning and characterization of rabbit POU5F1, SOX2, KLF4, C-MYC and NANOG pluripotency-associated genes. *Gene*. 566(2) pp.148-157. 2015 Jul 25; doi: 10.1016/j.gene.2015.04.034. Epub 2015 Apr 18. **IF:2,138**
4. Cosset, É., Martine, Y., Preynat-Seauve, O., Lobrinus, JA., Tapparel, C., Cordey, S., Peterson, H., Petty, TJ., Colaianna, M., Tieng, V., Tirefort, D., **Dinnyes, A.**, Dubois-Dauphin, M., Kaiser, L., Krause, KH. Human three-dimensional engineered neural tissue reveals cellular and molecular events following cytomegalovirus infection. *Biomaterials*. 53, pp.296-308. 2015, doi: 10.1016/j.biomaterials.2015.02.094. **IF:8,557**
5. Pajer, K., Nemes, C., Berzsenyi, S., Kovács, KA., Purity, MK., Pajenda, G., Nógrádi, A., **Dinnyés, A.** Grafted murine induced pluripotent stem cells prevent death of injured rat motoneurons otherwise destined to die. *Experimental Neurology*. 269, pp.188-201. 2015 July, doi: 10.1016/j.expneurol.2015.03.031. Epub 2015 Apr 16. **IF:4,696**
6. Franco, S.S., Raveh-Amit, H., Kobilák, J., Alqahtani, MH., Mobasheri, A., **Dinnyes, A.** The crossroads between cancer stem cells and aging. *BMC Cancer*. 15 Suppl 1:S1. Published online 15 January 2015. doi: 10.1186/1471-2407-15-S1-S1. **IF:3,36**

### 2014 - Impact Factor:28,216

1. Lovrics A, Gao, Y., Juhász, z B., Bock, .I, Byrne, HM., **Dinnyés, A.**, Kovács, KA. Boolean modelling reveals new regulatory connections between transcription factors orchestrating the development of the ventral spinal cord. *PLoS One*.;9(11), p1. 2014 Nov 14, doi: 10.1371/journal.pone.0111430. eCollection 2014. **IF:3,234**
2. Klincumhom, N., Tharasanit, T., Thongkittidilok, C., Tiptanavattana, N., Rungarunlert, S., **Dinnyés, A.**, Techakumphu, M. Selective TGF-β1/ALK inhibitor improves neuronal differentiation of mouse embryonic stem cells. *Neuroscience Letters*.;578:1-6. 22 August 2014, doi: 10.1016/j.neulet.2014.06.001. Epub 2014 Jun 9. **IF:2,03**
3. Gorbe, A., Varga, ZV., Paloczi, J., Rungarunlert, S., Klincumhom, N., Purity, M., Madonna, R., Eschenhagen, T., **Dinnyes, A.**, Csont, T., and Ferdinandy, P. "Cytoprotection by the NO-Donor SNAP Against Ischemia/Reoxygenation Injury in Mouse Embryonic Stem Cell-Derived Cardiomyocytes." *Molecular Biotechnology* 56 (3),pp.258-264. doi: 10.1007/s12033-013-9704-2. **IF:1,876**

4. Bock, I., Raveh-Amit, H., Losonczi, E., Carstea, A. C., Feher, A., Mashayekhi, K., Matyas, S., **Dinnyes, A.**, and Pribenszky, C. Controlled hydrostatic pressure stress downregulates the expression of ribosomal genes in preimplantation embryos - a possible protection mechanism? *Reproduction, Fertility and Development*. 2014 016 Apr;28(6):776-84. doi: 10.1071/RD14346. **IF:2,4**
5. Varga, E., Nemes, C., Davis, R.D., Ujhelly, O., Klincumhom, N., Polgar, Z., Muenthaisong, S., Purity, M.K. and **Dinnyes, A.** Generation of transgene-free mouse induced pluripotent stem cells using an excisable lentiviral system. *Experimental Cell Research* 322, pp.335-344. 2014. April 1. doi: 10.1016/j.yexcr.2014.02.006. **IF:3,246**
6. Dambrot, C., Buermans, HP., Varga, E., Kosmidis, G., Langenberg, K., Casini, S., Elliott, DA., **Dinnyes, A.**, Atsma, DE., Mummery, CL., Braam, SR., Davis, RP. Strategies for rapidly mapping proviral integration sites and assessing cardiogenic potential of nascent human induced pluripotent stem cell clones. *Experimental Cell Research* 1;327(2), pp.297-306. 2014 Oct. doi: 10.1016/j.yexcr.2014.05.001. Epub 2014 May 13. **IF:3,246**
7. Xu R., Feyeux, M., Julien, S., Nemes, C., Albrechtsen, M., **Dinnyés A.**, Krause, KH. Screening of bioactive peptides using an embryonic stem cell-based neurodifferentiation assay. *AAPS Journal*, 16(3), pp.400-412. 2014; doi: 10.1208/s12248-014-9578-7. **IF:3,799**
8. Varga M, Sass M, Papp D, Takács-Vellai K, Kobolak J, **Dinnyés A**, Kliionsky DJ, Vellai T. Autophagy is required for zebrafish caudal fin regeneration. *Cell Death and Differentiation*. 2014, **21**, pp.547–556 **IF: 8.385**
9. Nemes, C., Varga, E., Polgar, Z., Klincumhom, N., Purity, MK., **Dinnyes, A.** Generation of mouse induced pluripotent stem cells by protein transduction. *Tissue Engineering Part C Methods*. 20(5), pp.383-92. 2014; doi: 10.1089/ten.TEC.2013.0026. **IF:1,167**
10. Gorbe, A., Z.V. Varga, J. Paloczi, S. Rungarunlert, N. Klincumhom, M. Purity, R. Madonna, T. Eschenhagen, **Dinnyes, A.**, Csont, T., Ferdinandy, P., Cytoprotection by the NO-Donor SNAP Against Ischemia/Reoxygenation Injury in Mouse Embryonic Stem Cell-Derived Cardiomyocytes. *Molecular Biotechnology* no. 56. (3.), pp.258-264. 2014 March, doi: 10.1007/s12033-013-9704-2. **IF:2,275**

#### 2013 - Impact Factor:36,389

1. Cebrian-Serrano, A., Stout, T., **Dinnyes, A.** Veterinary applications of induced pluripotent stem cells: regenerative medicine and models for disease? *Veterinary Journal*. 198(1), pp.34-42. 2013; doi: 10.1016/j.tvjl.2013.03.028. Review. **IF:2,165**
2. Cebrian-Serrano, A., Salvador, I., Raga, E., **Dinnyes, A.**, Silvestre, M.A. Beneficial Effect of Melatonin on Blastocyst *In Vitro* Production from Heat-Stressed Bovine Oocytes. *Reproduction in Domestic Animals* 48(5), pp.738-746. October 2013. Doi: 10.1111/rda.12154, 2013 **IF:1,177**
3. Raveh-Amit, H., Berzsenyi, S., Vas, V., Ye, D., **Dinnyes, A.** Tissue resident stem cells: till death do us part. *Biogerontology*. 14(6), pp.573-90. 2013 Dec; Published online 2 October 2013, doi: 10.1007/s10522-013-9469-9. Epub 2013 Oct 2. Review. **IF:3,01**
4. Lemieszek, MK., Chilosi, M., Golec, M., Skórska, C., **Dinnyes, A.**, Mashayekhi, K., Vierlinger, K., Huaux, F., Wielscher, M., Hofner, M., Yakoub, Y., Pastena, C., Daniele, I., Cholewa, G., Sitkowska, J., Lisowska, W., Zwoliński, J., Milanowski, J., Mackiewicz, B., Góra-Florek, A., Ziesche, R., Dutkiewicz, J. Age influence on hypersensitivity pneumonitis induced in mice by exposure to Pantoea agglomerans. *Inhalation Toxicology*. 11, pp.640-650. 2013 Sep.25, doi: 10.3109/08958378.2013.827284. **IF: 2.344**
5. Rungarunlert, S., Klincumhom, N., Tharasanit, T., Techakumphu, M., Purity, MK., **Dinnyes, A.** Slow turning lateral vessel bioreactor improves embryoid body formation and cardiogenic differentiation of mouse embryonic stem cells. *Cellular Reprogramming*. 15(5), pp.443-58. 2013; doi: 10.1089/cell.2012.0082. **IF: 2,345**
6. Fröhlich, T., Kösters, M., Graf, A., Wolf, E., Kobolak, J., Brochard, V., **Dinnyes, A.**, Juneau, A., Arnold, G. J. iTRAQ proteome analysis reflects a progressed differentiation state of epiblast derived versus inner cell mass derived murine embryonic stem cells. *Journal of Proteomics* 90, pp.38-51. 2013, Doi: dx.doi.org/10.1016/j.jprot.2013.03.015 **IF:3,929**
7. Phanthong, P., Raveh-Amit, H., Li, T., Kitiyanant, Y., **Dinnyes, A.** Is aging a barrier to reprogramming? Lessons from induced pluripotent stem cells. *Biogerontology*. 14(6), pp.591-602. 2013 Dec; doi: 10.1007/s10522-013-9455-2. Epub 2013 Aug 21. **IF:3,01**
8. Davis, RP., Nemes, C., Varga, E., Freund, C., Kosmidis, G., Gkatzis, K., de Jong, D., Szuhai, K., **Dinnyés, A.**, Mummery, CL. Generation of induced pluripotent stem cells from human foetal

- fibroblasts using the Sleeping Beauty transposon gene delivery system. *Differentiation*. 86(1-2),pp.30-37. 2013; doi: 10.1016/j.diff.2013.06.002. **IF:2,836**
9. Boonkusol, D., **Dinnyes, A.** Sa-Ardrit, M. Svasti, S. Faisaikarm, T. Vadolas, J. Fucharoen, S. Kitiyanant, Y. Phenotypic, Comparison Of Four Thalassemia Model Mice Reconstructed From Cryobanked Embryos. *Acta Biologica Hungarica* 64(1), pp.453-461. 2013, Doi: 10.1556/ABiol.64.2013.4.5 **IF:0,563**
  10. Klincumhom, N., Tharasanit, T., Thongkittidilok, C., Tiptanavattana, N., **Dinnyes, A.**, Techakumphu, M. Modulating neurogenesis in embryoid body using a selective TGF beta1/ALK inhibitor affects on gene expression of embryonic stem cell-derived motor neurons. *Thai Journal of Veterinary Medicine* 43(1), pp. 49-56. March, 2013 **IF:0,123**

## 2012 - Impact Factor:21,792

1. Klincumhom, N., Pirity, MK., Berzsenyi, S., Ujhelly, O., Muenthaisong, S., Rungarunlert, S., Tharasanit T, Techakumphu, M., **Dinnyes, A.** Generation of neuronal progenitor cells and neurons from mouse sleeping beauty transposon-generated induced pluripotent stem cells. *Cellular Reprogramming* 14(5),pp.390-397. doi: 10.1089/cell.2012.0010. **IF:2,744**
2. Muenthaisong, S., Ujhelly, O., Polgar, Z., Varga, E., Ivics, Z., Pirity, MK., **Dinnyes, A.** Generation of mouse induced pluripotent stem cells from different genetic backgrounds using Sleeping beauty transposon mediated gene transfer. *Experimental Cell Research*, 318(19), pp.2482-2489. 2012 doi: 10.1016/j.yexcr.2012.07.014. **IF:3,557**
3. Moawad, A.R., Fisher, P., Zhu, J., Choi, I., Polgar, Z., **Dinnyes, A.**, and Campbell, K.H.S. In vitro fertilization of ovine oocytes vitrified by solid surface vitrification at germinal vesicle stage. *Cryobiology* 65 (2):139-144. doi: 10.1016/j.cryobiol.2012.04.008, Epub 2012 May 3. **IF:2,137**
4. Pribenszky, C., Lin, L., Du, Y., Losonczi, E., **Dinnyes, A.**, Vajta, G. Controlled Stress Improves Performance - Cell Preconditioning in Assisted Reproduction. *Reproduction in Domestic Animals* 47.(Suppl. 4.),pp.197-206. 2012 Doi: 10.1111/j.1439-0531.2012.02076.x **IF:1,392**
5. Prchal-Murphy, M., Semper, C., Lassnig, C., Wallner, B., Gausterer, C., Teppner-Klymiuk, I., Kobolak, J., Müller, S., Kolbe, T., Karaghiosoff, M., **Dinnyes, A.**, Rüllicke, T., Leitner, NR., Strobl, B., Müller, M. TYK2 kinase activity is required for functional type I interferon responses in vivo. *PLoS One*. 2012;7(6):e39141. doi: 10.1371/journal.pone.0039141. Epub 2012 Jun 18. **IF:3,73**
6. Deshmukh, RS., Kovács, KA., **Dinnyés, A.** Drug discovery models and toxicity testing using embryonic and induced pluripotent stem-cell-derived cardiac and neuronal cells. *Stem Cells International*;2012,pp.379-569. doi: 10.1155/2012/379569. Epub 2012 May 8. **IF:2,813**
7. Moawad, AR., Fisher, P., Zhu, J., Choi, I., Polgar, Z., **Dinnyes, A.**, Campbell, KH. In vitro fertilization of ovine oocytes vitrified by solid surface vitrification at germinal vesicle stage. *Cryobiology*. 2012 Oct;65(2),pp.139-44. doi:10.1016/j.cryobiol.2012.04.008. Epub 2012 May 3. **IF:2,137**
8. Hall, VJ., Kristensen, M., Rasmussen, MA., Ujhelly, O., **Dinnyes, A.**, Hyttel, P. Temporal repression of endogenous pluripotency genes during reprogramming of porcine induced pluripotent stem cells. *Cellular Reprogramming*. 2012;14(3),pp.204-216. doi: 10.1089/cell.2011.0089. **IF:2,744**
9. Kobolak, J., Horsch, M., Geissler, S., Mamo, S., Beckers, J., **Dinnyes, A.** Comparative analysis of nuclear transfer embryo-derived mouse embryonic stem cells. Part II: gene regulation. *Cellular Reprogramming*, 2012;14(1):68-78. doi:10.1089/cell.2011.0057. **IF:2,744**
10. Kobolak, J., Mamo, S., Rungsiwiwut, R., Ujhelly, O., Csonka, E., Hadlaczky, G., **Dinnyes, A.** Comparative analysis of nuclear transfer embryo-derived mouse embryonic stem cells. Part I: cellular characterization. *Cellular Reprogramming* 2012; 14(1),pp.56-67. doi: 10.1089/cell.2011.0056. **IF:2,744**
11. Tancos, Zs., Nemes, Cs., Polgar, Zs., Gocza, E., Daniel, N., Stout, T.A.E., Maraghechi, P., Pirity, M.K., Osteil, P., Tapponnier, Y., Markossian, S., Godet, M., Afanassieff, M., Bosze, Zs., Duranthon, V., Savatier, P., **Dinnyes, A.** Generation of rabbit pluripotent stem cell lines. *Theriogenology*, 2012. 78: pp. 1774-1786 doi: 10.1016/j.theriogenology.2012.06.017 **IF:2,583**

## 2011 - Impact Factor:47,691

1. Rungarunlert, S., Rungsiwiwut, R., Suphankong, S., Panasophonkul, S., Kamthorn, P., Pramuan, V., Pirity, MK., **Dinnyes, A.**, Tharasanit, T., Techakumphu, M. Comparative characterization of four mouse parthenogenetic embryonic stem (pES) cell lines *Thai Journal of Veterinary Medicine*, 2011. 41(2), pp.143-155. **IF:0,194**

2. Muenthaisong, S., **Dinnyes, A.**, Nedambale, T.L. Review of somatic cell nuclear transfer in pig. *Academic Journals African Journal of Biotechnology*, 10(76), pp. 17384-17390. 2011 doi: dx.doi.org/10.5897/AJB11.2082 **IF: 0,573**
3. Masenya, M.B., Mphaphathi, M.L., P.P., M., D.O., U., **Dinnyes, A.**, Nedambale T. Preliminary evaluation of the different glycerol concentrations on boar semen parameters stored at 5 and 18 °C. *UNISWA Journal of Agriculture*, 2011. 15(2), pp. 172-176. **IF: 2,891**
4. Gosling, R., Tickle, C., Running, S.W., Tandong, Y., **Dinnyes, A.**, Osowole, A.A., Cule, E., Seven ages of the PhD. *Nature*. 472(7343), pp. 283-286. 2011 doi: 10.1038/472283a. **IF: 42,35**
5. Rungarunlert, S., Klincumhom, N., Bock, I., Nemes, C., Techakumphu, M., Purity, M.K., **Dinnyes, A.** Enhanced cardiac differentiation of mouse embryonic stem cells by use of the slow-turning, lateral vessel (STLV) bioreactor. *Biotechnology Letters* 33(8):1565-1573. 2011; doi: 10.1007/s10529-011-0614-8. **IF: 1,683**

#### 2010 - Impact Factor: 13,314

1. Bock, I., Losonczi, E., Mamo, S., Polgar, Z., Harnos, A., **Dinnyes, A.**, Pribenszky, C. Stress tolerance and transcriptional response in mouse embryos treated with high hydrostatic pressure to enhance cryotolerance. *CryoLetters*. 2010;31(5), pp. 401-412. **IF: 1,121**
2. Purity, M.K., **Dinnyes, A.** Tbx3: another important piece fitted into the pluripotent stem cell puzzle. *Stem Cell Research and Therapy*. 2010;1(2), p. 12. doi: 10.1186/scrt12. **IF: 4,63**
3. Mamo, S., Kobolak, J., Borbíró, I., Bíró, T., Bock, I., **Dinnyes, A.** Gene targeting and Calcium handling efficiencies in mouse embryonic stem cell lines. *World Journal of Stem Cells*. 2010 Dec 26;2(6), pp. 127-140. doi: 10.4252/wjsc.v2.i6.127.
4. Boonkusol, D., **Dinnyes, A.**, Faisaikarm, T., Sangsuwan, P., Pratipnatalang, N., Sa-Ardrit, M., Saikhun, K., Svasti, S., Vadolas, J., Winichagoon, P., Fucharoen, S., Kitiyanant, Y. Effect of human beta-globin bacterial artificial chromosome transgenesis on embryo cryopreservation in mouse models. *Reproduction Fertility and Development*. 2010;22(5), pp. 788-95. doi: 10.1071/RD09128. **IF: 2,553**
5. Muenthaisong, S., Ujhelly, O., Varga, E., Ivics, Z., Purity, M., **Dinnyes, A.** Generation of induced pluripotent stem cells from mouse embryonic fibroblasts by sleeping beauty transposon, *Transgenic Research* 2010, 19(2), p. 87 **IF: 2,569**
6. Kobolak, J., Bodo, S., Rungsiwiwut, R., Meng, Q., Adorjan, M., Virutamasen, P., Techakumphu, M., **Dinnyes, A.** Generation of mouse embryonic stem cell lines from zona-free nuclear transfer embryos. *Cellular Reprograming*. 2010;12(1), pp. 105-113. doi: 10.1089/cell.2009.0040. **IF: 2,441**

#### 2009 - Impact Factor: 11,439

1. Carstea, A.C., Purity, M.K., **Dinnyes, A.** Germline competence of mouse ES and iPS cell lines: Chimera technologies and genetic background. *World Journal Stem Cells*. 1(1), pp. 22-29. 2009 Dec 31; doi: 10.4252/wjsc.v1.i1.22.
2. Rungarunlert, S., Techakumphu, M., Purity, M.K., **Dinnyes, A.** Embryoid body formation from embryonic and induced pluripotent stem cells: Benefits of bioreactors. *World Journal Stem Cells*. 2009;1(1) pp. 11-21. doi: 10.4252/wjsc.v1.i1.11.
3. Kobolak, J., Kiss, K., Polgar, Z., Mamo, S., Rogel-Gaillard, C., Tancos, Z., Bock, I., Baji, A.G., Tar, K., Purity, M.K., **Dinnyes, A.** Promoter analysis of the rabbit POU5F1 gene and its expression in preimplantation stage embryos. *BMC Molecular Biology*. 2009; 10(88). doi: 10.1186/1471-2199-10-88. **IF: 2,848**
4. Zhao, X.M., Fu, X.W., Hou, Y.P., Yan, C.L., Suo, L., Wang, Y.P., Zhu, H.B., **Dinnyés, A.**, Zhu, S.E. Effect of vitrification on mitochondrial distribution and membrane potential in mouse two pronuclear (2-PN) embryos. *Molecular Reproduction Development*. 76(11), pp. 1056-1063. 2009, doi: 10.1002/mrd.21064. **IF: 2,041**
5. Liu, J., Mullen, S., Meng, Q., Critser, J., **Dinnyes, A.** Determination of oocyte membrane permeability coefficients and their application to cryopreservation in a rabbit model. *Cryobiology* 59(2):127-134. 2009, doi: 10.1016/j.cryobiol.2009.06.002. **IF: 1,718**
6. **Dinnyes, A.**, Nedambale, T.L. Cryopreservation of manipulated embryos: tackling the double jeopardy. *Reproduction, Fertility and Development* 21(1), pp. 45-59. 2009, doi: 10.1071/RD08220 **IF: 2,379**
7. Makhafola, M.B., Lehloeny, K.C., Mphaphathi, M.L., **Dinnyes, A.** Nedambale, T.L. The effect of breed on the survivability and motility rate of cryopreserved cock semen. *South African Journal of Animal Science* 2009, 39 (Supplement 1), pp. 242-245. **IF: 0,412**

8. Svarcova, O., Dinnyes, A., Polgar, Z., Bodo, S., Adorjan, M., Meng, Q., Maddox-Hyttel, P. Nucleolar Re-Activation Is Delayed in Mouse Embryos Cloned From Two Different Cell Lines *Molecular Reproduction Fertility and Development* 76(2), pp.132-141. 2009 doi: 10.1002/mrd.20936 **IF: 2,041**

#### 2008 - Impact Factor: 11,202

1. Meng, Q., Polgar, Z., Liu, J., Dinnyes, A. Live birth of somatic cell-cloned rabbits following trichostatin A treatment and cotransfer of parthenogenetic embryos. *Cloning Stem Cells*. 2009;11(1):203-208. doi: 10.1089/clo.2008.0072. **IF: 2,692**
2. Meng, Q., Wang, M., Stanca, C.A., Bodo, S., Dinnyes A. Cotransfer of parthenogenetic embryos improves the pregnancy and implantation of nuclear transfer embryos in mouse. *Cloning Stem Cells* 2008;10(4), 429-34. doi: 10.1089/clo.2008.0003. **IF: 2,622**
3. Dinnyes, A., Tian, X.C., Yang, X. Epigenetic regulation of foetal development in nuclear transfer animal models. *Reproduction In Domestic Animals*. 2008;43 Suppl 2, pp.302-309. doi: 10.1111/j.1439-0531.2008.01178.x. **IF: 1,526**
4. Mamo, S., Gal, A.B., Polgar, Z., Dinnyes, A. Expression profiles of the pluripotency marker gene POU5F1 and validation of reference genes in rabbit oocytes and preimplantation stage embryos. *BMC Mol Biol*. 2008 28, pp.9:67. doi: 10.1186/1471-2199-9-67. **IF: 2,81**
5. Polgar, Z., Dinnyes, A. Transfert nucléaire et cellules souches embryonnaires chez le lapin (Nuclear transfer and embryonic stem cells technology in rabbits). *Biofutur*, 2008. 27.287, pp.32-35. **IF: 0,026**

#### 2007 - Impact Factor: 13,25

1. Dinnyes, A., Liu, J., Nedambale, T.L. Novel gamete storage. *Reproduction, Fertility and Development* 19 (6), pp.719-731. 2007 doi: dx.doi.org/10.1071/RD07035 **IF: 2,805**
2. Somfai, T., Ozawa, M., Noguchi, J., Kaneko, H., Karja, N.W., Fahrudin, M., Nakai, M., Maedomari, N., Dinnyes, A., Nagai, T., Kikuchi, K. In vitro development of polyspermic porcine oocytes: Relationship between early fragmentation and excessive number of penetrating spermatozoa. *Animal Reproduction Science* 107(1-2), pp.131-147. 2007 doi: 10.1016/j.anireprosci.2007.06.025 **IF: 1,89**
3. Somfai, T., Ozawa, M., Noguchi, J., Kaneko, H., Kuriani Karja, N.W., Fahrudin, M., Dinnyes, A., Nagai, T., Kikuchi, K. Developmental competence of in vitro-fertilized porcine oocytes after in vitro maturation and solid surface vitrification: effect of cryopreservation on oocyte antioxidative system and cell cycle stage. *Cryobiology*. 2007;55(2), pp.115-126., doi:10.1016/j.cryobiol.2007.06.008 **IF: 1,939**
4. Meng, Q., Li, X., Wu, T., Dinnyes, A. Piezo-actuated zona-drilling improves the fertilisation of OPS vitrified mouse oocytes. *Acta Veterinaria Hungarica* 555(3), pp.369-378, 2007, doi: 10.1556/AVet.55.2007.3.11 **IF: 0,474**
5. Mamo, S., Gal, A.B., Bodo, S., Dinnyes, A. Quantitative evaluation and selection of reference genes in mouse oocytes and embryos cultured in vivo and in vitro. *BMC Developmental Biology* 7(14). 2007, doi: 10.1186/1471-213X-7-14 **IF: 3,337**
6. Boonkusol, D., Faisaikarm, T., Dinnyes, A., Kitiyanant, Y. Effects of vitrification procedures on subsequent development and ultrastructure of in vitro-matured swamp buffalo (*Bubalus bubalis*) oocytes. *Reproduction Fertility and Development* 19(2), pp.383-391. 2007, doi: 10.1071/RDv19n1Ab109 **IF: 2,805**

#### 2006 - Impact Factor: 19,93

1. Boonkusol, D., Baj Gal, A., Bodo Sz., Gorchony, B., Kitiyanant, Y., Dinnyes, A.: Gene Expression Profiles and In Vitro Development Following Vitrification of Pronuclear and 8-Cell Stage Mouse Embryos. *Molecular Reproduction and Development* 2006 73(6), pp.700-708. doi: 10.1002/mrd.20450 **IF: 2,379**
2. Somfai, T., Ozawa, M., Noguchi, J., Kaneko, H., Ohnuma, K., Karja, N.W., Fahrudin, M., Maedomari, N., Dinnyes, A., Nagai, T., Kikuchi, K.: Diploid porcine parthenotes produced by inhibition of first polar body extrusion during in vitro maturation of follicular oocytes. *Reproduction Fertility and Development* 2006 132(4), pp.559-570. **IF: 2,958**
3. Mamo, S., Bodo, S., Kobolak, J., Polgar, Z., Tolgyesi, G., Dinnyes, A. Gene expression profiles of vitrified in vivo derived 8-cell stage mouse embryos detected by high density oligonucleotide microarrays. *Mol Reprod Dev*. 2006;73(11), pp.1380-1392. **IF: 2,379**
4. Somfai, T., Dinnyes, A., Sage, D., Marosán, M., Carnwath, J.W., Ozawa, M., Kikuchi, K., Niemann, H. Development to the blastocyst stage of parthenogenetically activated in vitro matured porcine oocytes after Solid Surface Vitrification (SSV). *Theriogenology*, 2006 66(2), pp.415-422. **IF: 1,898**



5. Gál, AB., Carnwath, JW., **Dinnyes, A.**, Herrmann, D., Niemann, H., Wrenzycki, C. Comparison of real-time polymerase chain reaction and end-point polymerase chain reaction for the analysis of gene expression in preimplantation embryos. *Reproduction Fertility and Development*. 2006;18(3),pp.365-371. **IF:2,541**
6. Somfai, T., **Dinnyes, A.**, Sage, D., Marosán, M., Carnwath, JW., Ozawa, M., Kikuchi, K., Niemann, H. Development to the blastocyst stage of parthenogenetically activated in vitro matured porcine oocytes after solid surface vitrification (SSV). *Theriogenology*. 2006.15;66(2), pp.415-422. doi:10.1016/j.theriogenology.2005.11.023 **IF:1,898**
7. Li, Y., Cai, K., Li, J., **Dinnyes, A.**, Ji, W. Comparative studies with six extenders for sperm cryopreservation in the cynomolgus monkey (*Macaca fascicularis*) and rhesus monkey (*Macaca mulatta*). *American Journal of Primatology*. 2006; 68(1),pp.39-49. **IF:1,429**
8. Nedambale, T.L., Du, F., Xu, J., Chaubal, SA., **Dinnyes, A.**, Groen, W., Faber, D., Dobrinsky, J.R., YANG, X., TIAN, X.C. Prolonging bovine sperm-oocyte incubation in modified medium 199 improves embryo development rate and the viability of vitrified blastocysts. *Theriogenology* 12/2006 66(8),pp.1951-1960. doi: 10.1016/j.theriogenology.2006.04.044. **IF: 1,898**
9. Xu, J., Zhiqin, G., Lei, S., Nedambale, T.L., Jiain, Z., Schenk, J., Moreno, J.F., **Dinnyes, A.**, Weizhi, J, Tian, X.C., Xiangzhong, Y., Du, F. Developmental Potential of Vitrified Holstein Cattle Embryos Fertilized *in Vitro* with Sex-sorted Sperm. *Journal of Dairy Science* 08/2006; 89(7),pp.2510-2518. DOI: 10.3168/jds.S0022-0302(06)72326-8 **IF: 2,55**

#### 2005 - Impact Factor:2,393

1. Baranyai, B.,Bodo, sz., **Dinnyes, A.**, Gocza, E. Vitrification of biopsied mouse embryos *Acta Veterinaria Hungarica*, 53(1),pp.103-112. 2005 doi: dx.doi.org/10.1556/AVet.53.2005.1.10 **IF: 0,53**
2. **Dinnyes, A.**, Szmolenszky, A. Animal cloning by nuclear transfer: state-of-the-art and future perspectives. *Acta biochemica Polonica*. 52(3),pp. 585-588. Review. 2005 **IF:1,863**

#### 2004 - Impact Factor:14,575

1. Nedambale, TL., **Dinnyes, A.**, Yang, X., Tian, XC. Bovine blastocyst development in vitro: timing, sex, and viability following vitrification. *Biology of Reproduction* 71(5),pp.1671-1676. 2004; doi: 10.1095/biolreprod.104.027987 **IF:3,55**
2. Si, W., Zheng, P., Li, Y., **Dinnyes, A.**, Ji, W. Effect of glycerol and dimethyl sulfoxide on cryopreservation of rhesus monkey (*Macaca mulatta*) sperm. *American Journal of Primatology* 62(4) pp.301-306. April 2004, doi: 10.1002/ajp.20023 **IF:1,837**
3. Nedambale, TL., **Dinnyes, A.**, Groen, W., Dobrinsky, JR., Tian, XC., Yang, X. Comparison on in vitro fertilized bovine embryos cultured in KSOM or SOF and cryopreserved by slow freezing or vitrification. *Theriogenology* 62(3-4), pp.437-449, August 2004, doi: dx.doi.org/10.1016/j.theriogenology.2003.10.020 **IF: 1,64**
4. Bagis, H., Odaman Mercan, H., **Dinnyes, A.** Exposure to warmer post-operative temperatures reduces hypothermia caused by anaesthesia and significantly increases the implantation rate of transferred embryos in mouse. *Laboratory Animals* 38(1), pp.50-54. 2004 **IF: 1,667**
5. Bagis, H., Sagirkaya, H., Odaman Mercan, H., **Dinnyes, A.** Vitrification of pronuclear-stage mouse embryos on solid surface (SSV) vs. in cryotube: Comparison of the effect of equilibration time and different sugars in the vitrification solution. *Molecular Reproduction and Development* 67(2),pp.186-192 2004, doi: 10.1002/mrd.10388 **IF: 2,331**
6. Nedambale, TL., **Dinnyes, A.**, Chaubal, SA., Groen, W., Tian, C.X., Yang, X., Effect of In Vitro Fertilization Media on Bovine Embryo Development and Viability Following Vitrification. *Biology of Reproduction* 71(5), pp.1671-1676, 2004 **IF:3,55**

#### 2003 - Impact Factor:8,436

1. Nedambale, T. L., **Dinnyes, A.**, Groen, W., Dobrinsky, JR., Tian, X., Yang, X. Comparison on in vitro fertilized bovine embryos cultured in KSOM or SOF and cryopreserved by slow freezing or vitrification. *Theriogenology* 62 (3-4),pp.437-449. doi: 10.1016/j.theriogenology.2003.10.020.**IF:1,64**
2. Li, Y., Si, W., Zhang, X., **Dinnyes, A.**, Ji, W. Effect of amino acids on cryopreservation of cynomolgus monkey (*Macaca fascicularis*) sperm. *American Journal of Primatology*. 59(4),pp.159-165. 2003, doi: 10.1002/ajp.10073 **IF:1,208**
3. Begin, I., Bhatia, B., Baldassarre, H., **Dinnyes, A.**, Keefer, CL. Cryopreservation of goat oocytes and in vivo derived 2- to 4-cell embryos using the cryoloop (CLV) and solid-surface vitrification (SSV) methods. *Theriogenology*. 59(8):1839-50. 2003; doi: 10.1016/S0093-691X(02)01257-8 **IF:1,839**

4. Presicce, G.A., Revay, T., Nagy, Sz., **Dinnyes, A.**, Kovacs, A. Complex staining of water buffalo (*Bubalus bubalis*) spermatozoa (Colorazione vitale in spermatozoi di bufalo (*Bubalus bubalis*)). *Bubalus bubalis* 2,pp.55-60. 2003
5. Cui, W., D. Wylie, S. Aslam, **A. Dinnyes**, T. King, I. Wilmut, and A. J. Clark. Telomerase-immortalized sheep fibroblasts can be reprogrammed by nuclear transfer to undergo early development. *Biology of Reproduction* 69 (1),pp.15-21. 2003 doi: 10.1095/biolreprod.102.013250.**IF:3,646**
6. Bagis, H., Mercan, HO., Sagirkaya, H., Turgut, G., **Dinnyes, A.** Effect of the genetic background on the in vitro development of mouse embryos in potassium simplex optimized medium supplemented with amino acids (KSOM-AA). *Turkish Journal of Veterinary & Animal Science* 27 (2) pp.409-415. 2003 **IF: 0,103**

#### 2002 - Impact Factor:67,981

1. Wilmut, I., Beaujean, N., De sousa, P.A, **Dinnyes, A.**, King, T.J., Paterson, L.A., Wells, D.N., Young, L.E Somatic cell nuclear transfer. *Nature* 2002 419(6907) pp.583-587., doi:10.1038/nature01079 **IF: 30,432**
2. Lj, X., Su, L., Li, Y., Ji, W., **Dinnyes, A.** Vitricification of Yunnan Yellow Cattle oocytes: work in progress. *Theriogenology*. 58(7),pp.1253-1260., 2002 doi: dx.doi.org/10.1016/S0093-691X(02)00954-8 **IF:2,387**
3. Xue, F., Tian, XC., Du, F., Kubota, C., Taneja, M., **Dinnyes, A.**, Dai, Y., Levine, H., Pereira, LV., Yang, X. Aberrant patterns of X chromosome inactivation in bovine clones. *Nature Genetics*. 31(2),pp.216-20. 2002, doi:10.1038/ng900 doi: **IF:26,711**
4. **Dinnyes, A.**, De Sousa, P., King, T., Wilmut, I. Somatic cell nuclear transfer: recent progress and challenges. *Cloning Stem Cells*. 4(1), pp.81-90. Review. March 2002, doi:10.1089/153623002753632075. **IF:0,132**
5. De Sousa, PA., Dobrinsky, JR., Zhu, J., Archibald, AL., Ainslie, A., Bosma, W., Bowering, J., Bracken, J., Ferrier, PM., Fletcher, J., Gasparrini, B., Harkness, L., Johnston, P., Ritchie, M., Ritchie, W.A., Travers, A., Albertini, D., **Dinnyes, A.**, King, TJ., Wilmut, I. Somatic cell nuclear transfer in the pig: control of pronuclear formation and integration with improved methods for activation and maintenance of pregnancy. *Biology of Reproduction*. 66(3),pp.642-650. 2002; doi: 10.1095/biolreprod66.3.642 **IF:3,689**
6. Bagis, H., Odaman, H., Sagirkaya. H., **Dinnyes, A.** Production of Transgenic Mice from Vitrified Pronuclear-Stage Embryos. *Molecular Reproduction and Development* 61(2),pp.173-179. 2002, doi: 10.1002/mrd.1144 **IF: 2,322**
7. King, TJ., Dobrinsky, J., Zhu, J., Archibald, AL., Bosma, W., Harkness, WA., Ritchie, WA., Travers, A., Mccorquodale, C., Day, BN., **Dinnyes, A.**, De Sousa, PA., Wilmut, I. Embryo development and establishment of pregnancy after embryo transfer in the pig: Coping with limitations in the availability of viable embryos. *Reproduction* 123(4),pp.507-515,2002. doi: 10.1530/rep.0.1230507 **IF: 2,308**

#### 2001 - Impact Factor:17,781

1. Fair, T., P. Lonergan, **A. Dinnyes**, D. C. Cottell, P. Hyttel, F. A. Ward, and M. P. Boland. 2001. Ultrastructure of bovine blastocysts following cryopreservation: Effect of method of blastocyst production. *Molecular Reproduction and Development* 58 (2),pp.186-195. 2001 doi: 10.1002/1098-2795(200102)58:2<186::AID-MRD8>3.0.CO;2-N **IF:2,296**
2. Denning, C., Burl,S., Ainslie,A., Bracken, J., **Dinnyes, A.**, Fletcher, J., King, t., Ritchie, M., Ritchie, W.A., Rollo, M., De Sousa, PA., Travers, A., Wilmut, I., Clark., A.J. Deletion of the alpha(1,3)galactosyl transferase (GGTA1) gene and the prion protein (PrP) gene in sheep. *Nature Biotechnology* 19 (6),pp.559-562. doi: 10.1038/89313 **IF:11,31**
3. Hyttel, P., **Dinnyes,A.**, Laurincik, J., Rath, D., Niemann, H., Rosenkranz, C., Wilmut, I. Gene expression during pre- and peri-implantation embryonic development in pigs. *Reproduction Fertility and Development Supplement* 58,pp.175-189.**IF:0,667**
4. **Dinnyes, A.**, Dai, Y., Barber, M., Liu, L., Xu, J., Zhou, P., Yang, X. Development of cloned embryos from adult rabbit fibroblasts: Effect of activation treatment and donor cell preparation. *Biology of Reproduction*. 64(1),pp.257-263. 2001, doi: 10.1095/biolreprod64.1.257 **IF: 3,508**

#### 2000 - Impact Factor:8,202

1. **Dinnyes, A.**, Dai, Y., Jiang, S., Yang, X. High developmental rates of vitrified bovine oocytes following parthenogenetic activation, in vitro fertilization, and somatic cell nuclear transfer. *Biology of Reproduction* 63(2),pp.513-518. 2000, doi: 10.1095/biolreprod63.2.513 **IF: 3,605**
2. Enright, B.P., Lonergan, A., **Dinnyes, A.**, Fair, T., Ward, F.A., Yang, X., Boland, M.P. Culture of in vitro produced bovine zygotes in vitro vs in vivo: implications for early embryo development and quality. *Theriogenology*, 54(5),pp.659 – 673. 2000, doi: 10.1016/S0093-691X(00)00381-2 **IF: 2,062**
3. Lonergan, P., **Dinnyes, A.**, Fair, T., Yang, X., Boland, MP. Bovine oocyte and embryo development following meiotic inhibition with butyrolactone I. *Molecular Reproduction and Development* 57(2),pp.204-209 2000, doi: 10.1002/1098-2795(200010)57:2<204::AID-MRD12>3.0.CO;2-N **IF: 2,535**

#### 1999 - Impact Factor:2,658

1. **Dinnyes, A.**, Hirao, Y., Nagai, T. Parthenogenetic activation of porcine oocytes by electric pulse and/or butyrolactone I treatment. *Cloning*, 1(4),pp.209-216. 1999, doi: 10.1089/15204559950019843.
2. **Dinnyes, A.**, Lonergan, P., Fair, T., Boland, MP., Yang, X. Timing of the first cleavage post-insemination affects the cryosurvival of in vitro produced bovine blastocysts. *Molecular Reproduction and Development* 53(3),pp.318-324. 1999, doi: 10.1002/(SICI)1098-2795(199907)53:3<318::AID-MRD7>3.0.CO;2-O **IF: 2,658**

#### 1998 - Impact Factor:6,454

1. **Dinnyes, A.**, Urbányi, B., Baranyai, B., Magyary, I. Chilling sensitivity of carp (*Cyprinus carpio*) embryos at different developmental stages in the presence or absence of cryoprotectants: work in progress *Theriogenology*, 50(1),pp. 1-13. 1998, **IF: 1,76**
2. Kubota, C., Yang, X., **Dinnyes, A.**, Todoroki, J., Yamakuchi, J., Mizoshita, K., Inohae, S., Tabara, N. In Vitro and In Vivo Survival of Frozen-Thawed Bovine Oocytes after IVF, Nuclear Transfer and Parthenogenetic Activation. *Molecular Reproduction and Development*, 51(3),pp.281-286. 1998 **IF: 2,399**
3. **Dinnyes, A.**, Bodo, Sz., Dohy, J. Changing cattle breeding strategies in Hungary: Potential effects of nuclear cloning and other biotechnological methods *Archives fur Tierzucht*, 1998 41(3), pp.251-259. **IF: 0,295**
4. Bodo, Sz., **Dinnyes, A.**, Baranyai, B., Solti, L., Dohy, J. Comparison of different treatments for parthenogenetic activation of bovine oocytes matured in vitro. *Acta Veterinaria Hungarica*, 46(4), pp.493-500. **IF: 2,00**

#### 1996 - Impact Factor:2,32

1. **Dinnyes, A.**, Carolan, c., Lonergan, C., Massip, A., Mermillod, P. ,Survival of frozen or vitrified bovine blastocysts produced *in vitro* in synthetic oviduct fluid *Theriogenology*, 1996 46(8):1425-1439. 1996, doi: 10.1016/S0093-691X(96)00321-4 **IF: 2,32**

#### 1995 - Impact Factor:5,142

1. **Dinnyes, A.**, Wallace., GA., Rall, WF. Effect of Genotype on the Efficiency of Mouse Embryo Cryopreservation by Vitrification or Slow Freezing Methods *Molecular Reproduction and Development*, 40(4),pp.429-435. 1995 doi: 10.1002/mrd.1080400406 **IF: 2,229**
2. Massip, A., Mermillod, P., **Dinnyes, A.** Morphology and biochemistry of in-vitro produced bovine embryos: implications for their cryopreservation *Human Reproduction*, 10(11), pp.3004-3011, 1995, **IF: 2,913**

#### B) Bookchapters: (25)

1. Rungarunlert S., J. N. Ferreira, **A., Dinnyes.** "Novel Bioreactor Platform for Scalable Cardiomyogenic Differentiation from Pluripotent Stem Cell-Derived Embryoid Bodies." [Methods in Molecular Biology](#) pp: 1-11, 2016. 1064-3745 doi: 10.1007/7651\_2016\_341
2. Cedeño, C., Raveh-Hamit, H., **Dinnyes, A.**, Tompa, P. . "Towards Understanding Protein Disorder in-Cell." *In: Intrinsically Disordered Proteins Studied by NMR Spectroscopy In Intrinsically Disordered Proteins Studied by Nmr Spectroscopy*, Volume: 870, pp. 319-34: Springer International Publishing, 20.09.2015.doi: 10.1007/978-3-319-20164-1\_10 **IF:1,958**
3. **Dinnyes, A.** "A biotechnológia alkalmazása az állattenyésztésben (Application of biotechnology in animal husbandry)." *In: Általános Állattenyésztés (Animal Husbandry)*, edited by F. Szabó, pp. 382-397. Budapest, Hungary: Mezőgazda Kiadó, 2015

4. **Dinnyes, A.**, Tian, X., and Oback, B. "Nuclear Transfer for Cloning Animals." In: *Epigenetic Regulation and Epigenomics: Advances in Molecular Biology and Medicine* Wiley-VCH Verlag GmbH & Co.1, 2012 p.279-325
5. **Dinnyes, A.**, Tian, X., and Oback, B. "Nuclear Transfer for Cloning Animals." In: *Encyclopedia of Molecular Cell Biology and Molecular Medicine: Epigenetic Regulation and Epigenomics*, edited by R. A. Meyers. Wiley-VCH Verlag GmbH & Co. KGaA. 2014 p:297-323, 2014
6. Meng, Q., Polgar, Z., Tancos, Z., Tian, X., and **Dinnyes, A.** "Cloning of Rabbits." In: *Principles of Cloning* edited by Cibelli, Jose, et al., Academic Press, 2013. pp. 227-244.
7. Harrill, J., Gstraunthaler, G., **Dinnyes, A.**, and Chapin, R. "Chapter 3: Cells and Tissues." In: *Publication Standards for In Vitro Experiments*.2013
8. Magyary, I., Urbányi, B., Horváth, Á., **Dinnyés, A.** "Cryopreservation of Gametes and Embryos of Cyprinid Fishes" In: *Cryopreservation in Aquatic Species 2nd Edition*, edited by Tiersch TR and Green, CC.. Baton Rouge, Louisiana, USA: World Aquaculture Society.2011,pp.525-538
9. Urbanyi, B., **Dinnyes, A.**, Magyary, I. „Cryopreservation Methods for Sperm of African Catfish Formerly Known as Sharptooth Catfish” In: *Cryopreservation in Aquatic Species*, edited by Tiersch TR and Mazik PM. Baton Rouge, Louisiana, USA: World Aquaculture Society.2011,pp.703-705
10. Magyary, I., **Dinnyes, A.**, Urbanyi, B. ”Cryopreservation Methods for Sperm of the Common Carp” In: *Cryopreservation in Aquatic Species 2nd Edition*, edited by Tiersch TR and Green, CC.. Baton Rouge, Louisiana, USA: World Aquaculture Society.2011,pp.705-708
11. **Dinnyes, A.**, Magyary, I., Urbanyi, B. „Production of Cyprinid Embryos for Cryopreservation Studies” In: *Cryopreservation in Aquatic Species 2nd Edition*, edited by Tiersch TR and Green, CC., Baton Rouge, Louisiana, USA: World Aquaculture Society.2011,pp.717-718
12. Urbanyi, B., Magyary, I., Horvath, A., Baranyai, B., **Dinnyes, A.** „Cryopreservation of Sperm and Eggs of African Catfish Formerly Known as Sharptooth Catfish” In: *Cryopreservation in Aquatic Species 2nd Edition*, edited by Tiersch TR and Green, CC., Baton Rouge, Louisiana, USA: World Aquaculture Society.2011,pp.513-524
13. **Dinnyes, A.**, Nedambale, T., and Liu, J. "Manipulated Embryos: Cryopreservation." In: *The Encyclopedia of Biotechnology in Agriculture and Food*, edited by Bridges Heldman, Hoover and Wheeler, pp.394-398. New York, NY USA: Taylor & Francis Group. 2010
14. **Dinnyes, A.**, and Kobolak, J. "Sejtmagátültetési klónozás és az embrionális őssejtek felhasználása az orvostudományban (Nuclear transfer cloning and use of embryonic stem cells in medicine)." In: *Sejtbiológia (Cellular Biology)*, p: 727. Budapest, Hungary: Medicina Könyvkiadó Zrt. 2009.
15. **Dinnyes, A.**, Polgar, Z., and Meng, Q. "Rabbit Cloning." In: *Rabbit Biotechnology*, edited by J. Fan. Springer L.M. Houdebine, Dordrecht Heidelberg, pp. 105-128, 136. London, New York, 2009
16. **Dinnyes, A.**, and Sandor, J. "Nuclear Transfer Cloning: State of the Art.." In: *Law and Ethics of Reproductive Medicine.*, edited by J. Sandor, pp. 19-33, 175. Budapest, Hungary: Central European University.2009
17. **Dinnyes, A.** "Nuclear transfer, chimeras and hybrids: activities and legal aspects of research in Hungary." In: *Chimbrids-Chimeras and hybrids in comparative European and international research-scientific, ethical, philosophical and legal aspects*, edited by M. Weschka. J. Taupitz, pp.501-523. Springer. 2009
18. **Dinnyes, A.**, Weschka, M., and Zhou, Q. "Nuclear transfer research." In: *Chimbrids-Chimeras and hybrids in comparative European and international research-scientific, ethical, philosophical and legal aspects*, edited by M. Weschka. J. Taupitz, pp.43-50., Munich, Germany: Springer.2009
19. De Sousa, P., Ritchie, W., **Dinnyes, A.**, King, T., Paterson, L., and Wilmut, I. "Somatic Cell Nuclear Transfer." In: *A Laboratory Guide to the Mammalian Embryo.* edited by Michelle Lane David K. Gardner, Andrew J. Watson, p:23. Oxford University Press, UK and Europe. 2004.
20. **Dinnyes, A.** "A biotechnológia alkalmazása az állattenyésztésben (Application of biotechnology in animal husbandry)." In: *Általános Állattenyésztés (Animal Husbandry)*, edited by F. Szabó, pp.378-392. Budapest, Hungary: Mezőgazda Kiadó.2004
21. **Dinnyes, A.**, Tian, X., and Yang, X. "Cloning of Rabbits." In: *Principles of Cloning*, edited by JB Cibelli, Lanza, R., Campbell, K., West, MD, pp. 343-366. USA: Academic Press.2002
22. **Dinnyes, A.**, and Urbanyi, B. "Methods to study chilling sensitivity and cryoprotectant toxicity in 4 Cyprinidae species in a hatchery." In: *Cryopreservation in Aquatic Species*, edited by Tiersch TR and Mazik PM. Baton Rouge, Louisiana, USA: World Aquaculture Society.2000

23. Magyary, I., Urbanyi, B., Horvath, A., and **Dinnyes, A.** "Cryobiological challenges of gamete preservation in cyprinidae." In: *Cryopreservation in Aquatic Species*, edited by Tiersch TR and Mazik PM. Baton Rouge, Louisiana, USA: World Aquaculture Society.2000
24. Urbanyi, B., Magyary,I., Horvath, A., Baranyai, B., and **Dinnyes, A.** "Studies on sharptooth catfish (*Clarias gariepinus*) sperm and ova cryopreservation." In: *Cryopreservation in Aquatic Species*, edited by Tiersch TR and Mazik PM. Baton Rouge, Louisiana, USA: World Aquaculture Society.2000
25. **Dinnyes, A.**, Carolan, C., Lonergan,P., Bodo,S., Solti,L., Massip,A., and Mermillod, P. "In vitro survival following vitrification of bovine embryos produced in different in vitro conditions." In: *Reproduction and Animal Breeding, Advances and Strategy*, edited by G.F. Greppi and A. Lauria G. Enne, pp:369-370. Paris: Elsevier., 1995

### C) Hungarian language full papers (15):

1. **Dinnyes, A.**, Kobolak, J., A sejtmag átültetés, a sejtek átprogramozásának tudománytörténeti összefoglalója. *Magyar Tudomány*. Június 2013, pp.648-661.
2. Nagy, K., Kovacs, A., Gyimothy, G., Olah, J., Egerszegi, T., Nedambale, T., Demberel, S., Presicce, GA., **Dinnyes, A.**, Javor, A., Kusza, S. "A hsp70 hőstressz gén polimorfizmus vizsgálata különböző juh genotípusokban." *Acta Agraria Debreceniensis* 50. Agrártudományi Közlemények no. 2012/50, pp.41-45.
3. Tancos, Zs., Kobolak, J., Baji-Gal, A., **Dinnyes, A.**, Pluripotenciagének azonosítása preimplantációs korú nyülembriókban *Magyar Állatorvosok Lapja*, 2010, 132,pp.707-710
4. Varga, E., Polgar, Zs., Bodo, Sz., **Dinnyes, A.** Lézer asszisztált in vitro fertilizáció fagyasztott spermával nyúl modellben (Increase of fertilization with frozen semen in laser-assisted rabbit in vitro fertilization). *Magyar Állatorvosok Lapja* 2009 (9) 131, pp.562-565 **IF: 0,146**
5. Tancos, Zs., Kobolak, J., Baji Gal, A., **Dinnyes, A.** Az OCT-4 és Nanog transzkripciós faktor gének azonosítása preimplantációs korú nyülembriókban. *Állattenyésztés és Takarmányozás*, 2006 55(6)pp.577-589.
6. Polgar, Zs., Bodo, sz., Kobolak, J., Mamo, S., Tancos, Zs., Toth, Sz., Gorhony, B., **Dinnyes, A.** Egér kiméra utódok létrehozása injektált és mélyhűtött blasztocitákból. *Állattenyésztés és Takarmányozás*, 2006 55 (6),pp. 493-499.
7. Baji Gal, A., Bodo, Sz., Duangjai, B., Gorhony, B., Balogh, E., **Dinnyes, A.** Génexpressziós különbségek kimutatása kinetikus PCR-rel korai egér embriók egyedi blasztomer sejtjeiben. *Állattenyésztés és Takarmányozás*, 2005 54(3),pp.285-292.
8. Görhöny, B., Bodó, Sz., Tóth, Sz., **Dinnyés, A.** Intracitoplazmatikus spermium injektálás metodikai összehasonlítása humán és egér modellrendszeren. *Állattenyésztés és Takarmányozás*, 2005 54(3),pp.203-207.
9. **Dinnyes, A.**, Bodo, Sz. In vitro és mikromanipulációs technológiák állattenyésztési felhasználása. *Mezőgazdasági Biotechnológia*, Agroinform Kiadó, 2005, pp.304-312.
10. Somfai, T., Kukuchi, K., Onishi, A., Iwamoto, M., Fuchimoto, D., Bali Papp, A. **Dinnyes, A.**, Sato, E., Nagai, T. Összefüggés a kumulusz morfológiai változása és a petesejt érés dinamikája közt folliculáris sertés petesejtek in vitro maturáltatásakor. *Állattenyésztés és Takarmányozás*, 2005 54(3),pp.272-276.
11. **Dinnyes, A.**, Bagis, H., Ji, W., Kikuchi, K., Lee, JW., Li, X., Nagai, T., Presicce, GA., Somfai, T., Si, W., Yang, X. Gene Banking in Rare Breeds and Species whose Gametes are Difficult to Cryopreserve (Ritka fajták és nehezen mélyhűthető gamétájú fajok génbanki megőrzése). *Állattenyésztés és Takarmányozás*, 2003 52(Suppl),pp.82-90.
12. **Dinnyes, A.**, Bodo, Sz., Dohy, J. Integration of animal biotechnology into the Hungarian cattle breeding with special emphasis on the nuclear cloning. *Hungarian Agricultural Research* 1998 1,p: 11-13.
13. Fancsovits, P., **Dinnyes, A.**, Dohy, J. In vitro culture of mammalian embryos, *Magyar Állatorvosok Lapja* 1998 120(3),pp.152-158. **IF: 0,073**
14. **Dinnyes, A.**, Benedek, D., Solti, L. Az embriómélyhűtés új módszerei, modellkísérletek egérembriókkal, *Magyar Állatorvosok Lapja*, 1989. 44(9),pp.565-569. **IF: 0,030**
15. Solti, L., **Dinnyes, A.**, Benedek, D., Seregi, J. Új módszerek az embriómélyhűtésben, *Biotechnológia és Környezetvédelem*, 1988 2(2),p:40-41.