**Devendra K. Agrawal’s Publications (2019-2020):**

1. Thankam FG, **Agrawal DK**: Molecular chronicles of cytokine burst in COVID-19 patients with cardiovascular diseases.  ***J Thoracic Cardiovasc Surg***. – In press

II:S0022-5223(20)31319-2

[https://www.jtcvs.org/article/S0022-5223(20)31319-2/fulltext](https://www.jtcvs.org/article/S0022-5223%2820%2931319-2/fulltext)

 DOI: <https://doi.org/10.1016/j.jtcvs.2020.05.083>

2.  **Agrawal DK**, Thankam FG: *Commentary*: Awakening the hibernating myocardium: The pristine business of mesenchymal stem cells. ***J Thoracic Cardiovasc Surg***. 2020 Feb 1:S0022-5223(20)30277-4.

doi: 10.1016/j.jtcvs.2020.01.046. PMID: 32115189

3. **Agrawal DK**, Thankam FG: *Commentary*: Divine decree or a novel panacea in CRISPR-Cas9-steered cellular reprogramming in the fate of failing heart. ***J Thoracic Cardiovasc Surg***. – In press

[https://www.jtcvs.org/article/S0022-5223(20)31244-7/fulltext](https://www.jtcvs.org/article/S0022-5223%2820%2931244-7/fulltext)

DOI: <https://doi.org/10.1016/j.jtcvs.2020.05.026>

4. Thankam FG, **Agrawal DK**: Cardinal virtues of multifarious hydrogel implant in cardiac resurrection **(*Editorial Commentary*).  *J Thoracic Cardiovasc Surg***. – In press

[https://www.jtcvs.org/article/S0022-5223(20)31159-4/fulltext](https://www.jtcvs.org/article/S0022-5223%2820%2931159-4/fulltext)

DOI: <https://doi.org/10.1016/j.jtcvs.2020.05.012>

5.  Chandrasekhar SK, Thankam FG, **Agrawal DK**, Ouseph JC: Interface biology of stem cell-driven tissue engineering. In: ***Biointegration of Medical Implant Materials*** pp. 19-44, January 2020; doi: 10.1016/B978-0-08-102680-9.00002-0.

6. Bashir AZ, Bashir K, Hunter WJ, **Agrawal DK:**

Cathepsin L expression in the carotid arteries of atherosclerotic swine.

***Arch Med Sci Atheroscler Dis***. 2019 Dec 2;4:e264-e267. doi: 10.5114/amsad.2019.90153. eCollection 2019. PMID: 32373754

7. Singhal S, Kapoor H, Subramanian S, **Agrawal DK**, Mittal SK: Polymorphisms of Genes Related to Function and Metabolism of Vitamin D in Esophageal Adenocarcinoma.

***J Gastrointest Cancer***. 2019 Dec;50(4):867-878. doi: 10.1007/s12029-018-0164-6. PMID: 30187205

8. Jiang W, **Agrawal DK**, Boosani CS: Non-coding RNAs as Epigenetic Gene Regulators in Cardiovascular Diseases.

***Adv Exp Med Biol***. 2020; 1229:133-148. doi: 10.1007/978-981-15-1671-9\_7. PMID: 32285409

9. Peeples ES, Dafferner A, Jiang J, Lyden E, Punsoni M, **Agrawal DK:** Combined Treatment with Insulin-Like Growth Factor 1 and AMD3100 Improves Motor Outcome in a Murine Model of Neonatal Hypoxic-Ischemic Encephalopathy.

***Dev Neurosci***. 2020 Feb 13:1-8. doi: 10.1159/000505264. PMID: 32053821

10. Rai V, Balters MW, **Agrawal DK:** Factors IX, XI, and XII: potential therapeutic targets for anticoagulant therapy in atherothrombosis.

***Rev Cardiovasc Med***. 2019 Dec 30;20(4):245-253. doi: 10.31083/j.rcm.2019.04.56. PMID: 31912715

11. Thankam FG, **Agrawal DK:** Infarct Zone: a Novel Platform for Exosome Trade in Cardiac Tissue Regeneration.

***J Cardiovasc Transl Res***. 2020 Jan 6. doi: 10.1007/s12265-019-09952-8.

PMID: 31907784

12. Asensio JA, Dabestani PJ, Wenzl FA, Miljkovic SS, Kessler JJ 2nd, Fernandez CA, Becker T, Cornell D, Siu M, Voigt C, **Agrawal DK:** A systematic review of penetrating extracranial vertebral artery injuries.

***J Vasc Surg***. 2020 Jun;71(6):2161-2169. doi: 10.1016/j.jvs.2019.10.084. PMID: 31902594

13. Thankam FG, Chandra I, Diaz C, Dilisio MF, Fleegel J, Gross RM, **Agrawal DK:**

Matrix regeneration proteins in the hypoxia-triggered exosomes of shoulder tenocytes and adipose-derived mesenchymal stem cells.

***Mol Cell Biochem***. 2020 Feb;465(1-2):75-87. doi: 10.1007/s11010-019-03669-7.

PMID: 31797254

14. Brozovich N, **Agrawal D**, Reddy G: A Critical Appraisal of Adult Trigger Finger: Pathophysiology, Treatment, and Future Outlook.

***Plast Reconstr Surg Glob Open***. 2019 Aug 8;7(8):e2360. doi: 10.1097/GOX.0000000000002360. eCollection 2019 Aug. PMID: 31592381

15. Boosani CS, Gunasekar P, **Agrawal DK:** An update on PTEN modulators - a patent review.

***Expert Opin Ther Pat***. 2019 Nov;29(11):881-889. doi: 10.1080/13543776.2019.1669562. PMID: 31530116

16. Satish M, **Agrawal DK:** Atherothrombosis and the NLRP3 inflammasome - endogenous mechanisms of inhibition.

***Transl Res***. 2020 Jan;215:75-85. doi: 10.1016/j.trsl.2019.08.003. PMID: 31469975

17. Gunasekar P, Satish M, Dabestani P, Jiang W, Boosani C, Radwan M, **Agrawal D**, Asensio J: Modulation of Cathepsin L Expression in the Coronary Arteries of Atherosclerotic Swine.

***J Surg Res***. 2019 Nov;243:460-468. doi: 10.1016/j.jss.2019.06.102. PMID: 31377485

18. Connor DE, Paulus JA, Dabestani PJ, Thankam FK, Dilisio MF, Gross RM, **Agrawal DK:** Therapeutic potential of exosomes in rotator cuff tendon healing.

***J Bone Miner Metab***. 2019 Sep;37(5):759-767. doi: 10.1007/s00774-019-01013-z.

PMID: 31154535

19. Satish M, Gunasekar P, **Agrawal DK:** Pro-inflammatory and pro-resolving mechanisms in the immunopathology of arteriovenous fistula maturation.

***Expert Rev Cardiovasc Ther***. 2019;17(5):369-376. doi: 10.1080/14779072.2019.1612745. PMID: 31056981

20. Larsen NK, Reilly MJ, Thankam FG, Fitzgibbons RJ, **Agrawal DK:** Novel understanding of high mobility group box-1 in the immunopathogenesis of incisional hernias.

***Expert Rev Clin Immunol***. 2019;15(7):791-800. doi: 10.1080/1744666X.2019.1608822. PMID: 30987468

21. Satish M, Saxena SK, **Agrawal DK:** Adipokine Dysregulation and Insulin Resistance with Atherosclerotic Vascular Disease: Metabolic Syndrome or Independent Sequelae?

***J Cardiovasc Transl Res***. 2019 Oct;12(5):415-424. doi: 10.1007/s12265-019-09879-0. PMID: 30835048

22. Subramanian S, Pallati PK, Rai V, Sharma P, **Agrawal DK**, Nandipati KC:

Increased Expression of Triggering Receptor Expressed on Myeloid Cells-1 in the Population with Obesity and Insulin Resistance.

***Obesity (Silver Spring)***. 2019;27(3):513-515. doi: 10.1002/oby.22401. PMID: 30801988

23. Thankam FG, Palanikumar G, Fitzgibbons RJ, **Agrawal DK:** Molecular Mechanisms and Potential Therapeutic Targets in Incisional Hernia.

***J Surg Res.*** 2019;236:134-143. doi: 10.1016/j.jss.2018.11.037. PMID: 30694748

24. Satish M, **Agrawal DK:** Pro-resolving lipid mediators in the resolution of neointimal hyperplasia pathogenesis in atherosclerotic diseases.

***Expert Rev Cardiovasc Ther***. 2019;17(3):177-184. doi: 10.1080/14779072.2019.1563483. PMID: 30582389

25. Rosenberg JH, Werner JH, Plitt GD, Noble VV, Spring JT, Stephens BA, Siddique A, Merritt-Genore HL, Moulton MJ, **Agrawal DK:** Immunopathogenesis and biomarkers of recurrent atrial fibrillation following ablation therapy in patients with preexisting atrial fibrillation.

***Expert Rev Cardiovasc Ther***. 2019;17(3):193-207. doi: 10.1080/14779072.2019.1562902. PMID: 30580643

26. Thankam FG, Boosani CS, Dilisio MF, **Agrawal DK:** Epigenetic mechanisms and implications in tendon inflammation (Review).

***Int J Mol Med***. 2019;43(1):3-14. doi: 10.3892/ijmm.2018.3961. PMID: 30387824

27. **Agrawal DK**, Siddique A: Commentary: Rejuvenation of "broken heart" with bioengineered gel. ***J Thorac Cardiovasc Surg***. 2019;157(4):1491-1493. doi: 10.1016/j.jtcvs.2018.08.076. PMID: 30322689

28. Thankam FG, Boosani CS, Dilisio MF, Gross RM, **Agrawal DK:** Genes interconnecting AMPK and TREM-1 and associated microRNAs in rotator cuff tendon injury. ***Mol Cell Biochem***. 2019;454(1-2):97-109. doi: 10.1007/s11010-018-3456-z. PMID: 30306456

29. Thankam FG, Evan DK, **Agrawal DK**, Dilisio MF: Collagen type III content of the long head of the biceps tendon as an indicator of glenohumeral arthritis.

***Mol Cell Biochem***. 2019;454(1-2):25-31. doi: 10.1007/s11010-018-3449-y. PMID: 30267195

30. Werner JH, Rosenberg JH, Um JY, Moulton MJ, **Agrawal DK:** Molecular discoveries and treatment strategies by direct reprogramming in cardiac regeneration.

***Transl Res.*** 2019;203:73-87. doi: 10.1016/j.trsl.2018.07.012. PMID: 30142308