

Publications in peer-reviewed Journal: (*equally contributed) (# Corresponding author) (No of Publications: 12 (First author: 9, h- index: 7 (Google Scholar))

- 1) [http://europepmc.org/search?query=\(AUTHORID%3A%220000-0002-9328-449X%22\)](http://europepmc.org/search?query=(AUTHORID%3A%220000-0002-9328-449X%22))
- 2) <http://www.ncbi.nlm.nih.gov/pubmed/?term=Deepak+Balaji+OR+Thimiri+Govinda+Raj>
- 3) <https://www.scopus.com/authid/detail.uri?authorId=57195924317>
- 2018 **Thimiri Govinda Raj DB#**, Prasanna SR, Venkatachalam S, Bioelectronic Medicine: Technology targeting future medicine **European Biopharmaceutical Review** 2018(October), pp. 70-71.
- 2018 **Thimiri Govinda Raj DB#**, Khan NA., Surface functionalization dependent subcellular localization of Superparamagnetic Nanoparticle in plasma membrane and endosome **Nano convergence** 5:4 [29492374](#).
- 2018 **Thimiri Govinda Raj DB#**, Khan NA., Synthesis of hybrid Gold Nanoparticles functionalized Superparamagnetic Nanoparticles. **Micro-Nano Letters** 13 (3):292 [10.1049/mnl.2017.0574](#).
- 2017 **Thimiri Govinda Raj DB#**, Khan NA., Protocol for eukaryotic plasma membrane isolation using superparamagnetic nanoparticles. **Journal of Magnetism and Magnetic Materials** accepted in press <https://doi.org/10.1016/j.jmmm.2017.12.070>
- 2016 **Thimiri Govinda Raj DB#**, Khan NA., Designer Nanoparticle: Nano-biotechnology tool for Cell Biology, **Nano Convergence** 3 (1), 22. [28191432](#).
- 2016 Sari D, Gupta K, **Thimiri Govinda Raj DB**, Aubert A, Drnkova P, Garzoni F, Fitzgerald D, and Berger I., The MultiBac Baculovirus/Insect Cell Expression Vector System for Producing Complex Protein Biologics **Advances in Experimental Medicine and Biology** 2016;896:199-215. [27165327](#).
- 2016 Khan NA, Willemarck N, Arnaud M, Binda MM, Dehairs J, Rueda-Rincon N, Talebi A, Bagadi M, **Thimiri Govinda Raj DB**, Vanderhoydone F, Munck S, Chaltin P, Swinnen J. Identification of Drugs that Restore Primary Cilium Expression in Cancer Cells. **OncoTarget** 1; 7(9):9975-92. [26862738](#).
- 2014 **Thimiri Govinda Raj DB**, Vijayachandran LS, and Berger I., OmniBac: Universal Multigene Transfer Plasmids for Baculovirus Expression Vector Systems. **Methods in molecular biology** 1091:123-30. [24203327](#).
- 2013 Vijayachandran LS*, **Thimiri Govinda Raj DB***, Edelweiss E, Gupta K, Maier J, Gordeliy V, Fitzgerald DJ, Berger I.. Gene gymnastics: Synthetic biology for baculovirus expression vector system engineering. **Bioengineered** 4(5) [23328086](#) .
- 2011 **Thimiri Govinda Raj DB**, Ghesquiere B, Tharkeshwar AK, Coen K, Derua R, Vanderschaeghe D, Rysman E, Bagadi M, Baatsen P, De Strooper B, E.Waelkens, G.Borghs, Gevaert K, & Annaert W, A novel strategy for the comprehensive analysis of the biomolecular composition of isolated plasma membranes. **Molecular Systems Biology** (2011); 7:541. [22027552](#) .
- 2010 Gupta SC, Mishra M, Sharma A, **Deepak Balaji TG**, Kumar R, Mishra RK, Chowdhuri DK. Chlorpyrifos induces apoptosis and DNA damage in Drosophila through generation of reactive oxygen species. **Ecotoxicology & Environmental Safety** (2010) 73:1415-23; (Citation: 47) [20627310](#).
- 2005 **Deepak Balaji TG#**, Suresh KD, Prasanna SR, Murugasen M Design of mixed microbial biosensor using T. cutaneum and K. marxianus culture for environmental monitoring. **IUP Journal of Science & Technology** Sep; 1(3): 84–94. [IJST80509](#)

Publications in submission

- 2018 Venkatachalam S, Baskaran S, Karthik R.S., **Thimiri Govinda Raj DB**, Ramesh Kumar T., Titanium diboride reinforced Aluminium composite as a robust material for automobile applications
- 2018 **Thimiri Govinda Raj DB**, Venkatachalam S., Step by Step Nano biotechnology protocol for plasma membrane and lysosome isolation from eukaryotic cell. **Methods in Molecular Biology**
- 2018 Crocker H, Gorda B, Pelosse M, **Thimiri Govinda Raj DB**, Berger I, # SynBac – A minimal Synthetic Baculovirus. This paper is advancement on MultiBac (Nature Biotech. 2004) (See Page: 23) https://research-information.bristol.ac.uk/files/155264825/BBI_launch_2018_booklet_0.8.pdf

Publications in peer-reviewed conference proceedings:

- 2018 **Thimiri Govinda Raj DB**, Cremaschi A, Skånland SS, Gade A, Schjesvold F, Tjønnfjord G, Munthe LA, and Tasken K., In-Vitro Drug Sensitivity Screening in Chronic Lymphocytic Leukemia (CLL) Primary Patient Samples Identifies Drug Candidates for Precision Cancer Therapy Blood in Press.
- 2018 **Thimiri Govinda Raj DB**, Giliberto M, Cremaschi A, Skånland SS, Gade A, Tjønnfjord G, Schjesvold F, Munthe LA, and Tasken K., Drug Sensitivity Screening on Multiple Myeloma for Precision Cancer Therapy Blood in Press.
- 2018 **Thimiri Govinda Raj DB**, Khan NA Surface functionalization dependent subcellular localization of Superparamagnetic Nanoparticle in plasma membrane and endosome. **FEBS OpenBio** 8 P.07-001- doi:10.1002/2211-5463.12453
- 2018 **Thimiri Govinda Raj DB**, Cremaschi A, Skånland SS, Gade A, Wang D, Schjesvold F, Tjønnfjord GE, Munthe LA and Tasken K Drug Sensitivity screening in Chronic Lymphocytic Leukaemia (CLL) for precision cancer therapy. **Hemasphere** 2:S1: PB1854.
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- 2014 Tharkeshwar AK, Gonnelli G, Trekker J, Staes A, Baatsen P, **Thimiri Govinda Raj DB**, Swinnen JV, Martens L, Lagae L, Gevaert K, Annaert W. Novel surface functionalized SPMNPs with engineered cellular uptake as a means for intracellular omics **Molecular Biology of Cell** 25(25):3987.
- 2014 **Thimiri Govinda Raj DB**, Garzoni F, Gavin AC, Gibson T and Berger I., SynBac: designer minimal baculovirus genome for drug discovery. **FEBS Journal** 281, (s1):9-55.
- 2012 **Thimiri Govinda Raj DB**, Ghesquiere B, Tharkeshwar AK, Coen K, Derua R, Vanderschaeghe D, Rysman E, Bagadi M, Baatsen P, Strooper D B, Waelkens E, Borghs G, Callewaert N, Swinnen J, Gevaert K, Annaert W. A novel strategy for the comprehensive

analysis of the biomolecular composition of isolated plasma membranes, **FEBS Journal**; 279; S1:P24

- 2008 **Thimiri Govinda Raj DB[#]**, Bartic C, Annaert W, Borghs G., Development & application of SPMNP for subcellular proteomics. NanoBiotech.
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- 2013 **Thimiri Govinda Raj DB**, Berger I., Improved baculoviral expression systems and methods of producing the same: EP14708951, US 61/ 762. 607 and WO2014122629
- 2011 **Thimiri Govinda Raj DB**, Lagae L, Annaert W, Borghs G, Plasma membrane isolation. (US Patent US8936935), US20150197742, EP2388589.
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- 2017 **Thimiri Govinda Raj DB[#]**, Khan NA., Superparamagnetic Nanoparticle based subcellular fractionation for plasma membrane, endosome and lysosome isolation IBCM Conference http://lnmm.ru/wp-content/uploads/2017/02/IBCM-2017_Book-of-Abstracts.pdf Page 70.
- 2015 **Thimiri Govinda Raj DB[#]**, “Fluorescent Nano-switches for diagnostic application”. **Protocol Exchange** DOI:10.1038/protex.2015.125.
- 2015 **Thimiri Govinda Raj DB**, Garzoni F, Gavin AC, Gibson T and Berger I., SynBac: designer minimal baculovirus genome for drug discovery EMBO Enabling Technologies for Eukaryotic Synthetic Biology EMBL Heidelberg, Germany
- 2014 **Thimiri Govinda Raj DB[#]**, Ambigapathy K, Comparison of cell surface glycosylation on apoptotic cells **Elsevier Nanobio Pharmaceutical Technology: Applications** ISBN: 9789351072935.
- 2013 **Thimiri Govinda Raj DB**, Ghesquiere B, Tharkeshwar AK, Coen K, Derua R, Vanderschaeghe D, Rysman E, Bagadi M, Baatsen P, Strooper D B, Waelkens E, Borghs G, Callewaert N, Swinnen J, Gevaert K, Annaert W. A novel strategy for the comprehensive analysis of the biomolecular composition of isolated plasma membranes. EMBO YSF 2013
- 2011 **Deepak Balaji TG[#]** “Design of microbial biosensor” 978-3-8465-3576-9.
- 2011 **Deepak Balaji TG[#]**, SPMNPs based (10nm) isolation of plasma membrane for high resolution mass spec. analysis of the proteome, lipidome & glycome. KU Leuven PhD, LAP: 978-3845409221
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- 2004 **Deepak Balaji TG**, Radhakrishnan PN, Krithikaa G, Sen RK, Biochemical approach in process development & optimization of biodiesel. Biotech Approaches for Sustainable Development, 112-8; ISBN 81-7764-669-9.