

## BIO-DATA

1. Name and full correspondence address      Partha Pratim Manna.  
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Zoology, Banaras Hindu University,  
Varanasi -221005, UP
2. Email(s) and contact number(s):      9918796824 (Mobile), Fax: 0542-2368174,  
Email: [pp\\_manna@yahoo.com](mailto:pp_manna@yahoo.com).
3. Institution      Banaras Hindu University
4. Date of Birth      March 14, 1965
5. Gender (M/F/T):      M
6. Category Gen/SC/ST/OBC:      Gen
7. Whether differently abled (Yes/No):      No

### 8. Academic Qualification (Undergraduate Onwards)

| Item | Degree | Year of Passing | Institution                                                       | Subject                | Percentage of Marks |
|------|--------|-----------------|-------------------------------------------------------------------|------------------------|---------------------|
| 1    | BSc    | 1986            | University of Calcutta, Kolkata                                   | Honours in (Zoology)   | 54.30               |
| 2    | MSc    | 1989            | Visva Bharati, Santiniketan, WB                                   | Life Science (Zoology) | 63.80               |
| 3    | PhD    | 1996            | Indian Institute of Chemical Biology/Jadavpur University, Kolkata | Science/ Immunology    |                     |

### 9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

***Studies on Natural Killer Cells in Visceral Leishmaniasis***, Dr Santu Bandyopadhyay, Indian Institute of Chemical Biology/Jadavpur University, Kolkata, 1996.

### 10. Work experience (in chronological order).

| Item | Designation          | Institution                          | From | To        |
|------|----------------------|--------------------------------------|------|-----------|
| 1    | Associate Professor  | BHU                                  | 2010 | Till date |
| 2    | Reader               | BHU                                  | 2007 | 2010      |
| 3    | Post doctoral fellow | Texas A & M University               | 2006 | 2007      |
| 4    | Post doctoral fellow | Washington University, St Louis, USA | 1999 | 2005      |

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|---|--------------------------|---------------------------------------------------------------------|------|------|
| 5 | Scientific Officer SO-SD | Cancer Research Institute (ACTREC),<br>Tata Memorial Center, Mumbai | 1997 | 1999 |
|---|--------------------------|---------------------------------------------------------------------|------|------|

**11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.**

- i. Life Member Indian Immunology Society

**12. Publications** (List of papers published in SCI Journals, in year wise descending order).

| S. No. | Author(s)                                                                                                                                         | Title                                                                                                                                                                                                                                                        | Name of Journal                                                                   | Volume | Page      | Year |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------|------|
| 1.     | Prateek Srivastava, Sumit Kumar Hira, Ankush Paladhi, Ranjeet Singh, Uttam Gupta, Divesh Narayan Srivastava, Ram Adhar Singh, Partha Pratim Manna | Studies on interaction potency model based on drug synergy and therapeutic potential of triple stimuli-responsive delivery of doxorubicin and 5-fluoro-2-deoxyuridine against lymphoma using disulfide-bridged cysteine over mesoporous silica nanoparticles | <b><i>Journal of Materials Chemistry B</i></b>                                    | 8(7)   | 1411-1421 | 2020 |
| 2.     | Hira, Sumit Kumar; Mitra, Kheyath; Srivastava, Prateek; Singh, Shikha; Vishwakarma, Sambhav; Singh, Ranjeet; Ray, Biswajit; Manna, Partha Pratim; | Doxorubicin loaded pH responsive biodegradable ABA-type Amphiphilic PEG-b-aliphatic Polyketal-b-PEG block copolymer for therapy against aggressive murine lymphoma                                                                                           | <b><i>Nanomedicine: Nanotechnology, Biology and Medicine</i></b>                  | 24     | 102128    | 2020 |
| 3.     | Gupta, Uttam; Hira, Sumit Kumar; Singh, Ranjeet; Paladhi, Ankush; Srivastava, Prateek; Manna, Partha Pratim;                                      | Essential role of TNF- $\alpha$ in gamma c cytokine aided crosstalk between dendritic cells and natural killer cells in experimental murine lymphoma                                                                                                         | <b><i>International Immunopharmacology</i></b>                                    | 78     | 106031    | 2020 |
| 4.     | Ta, S.; Das, S.; Ghosh, M.; Banerjee, M.; Hira, S. K*.; Manna, P. P.; Das, D*. (* Corresponding Author)                                           | A unique benzimidazole-naphthalene hybrid molecule for independent detection of Zn <sup>2+</sup> and N <sup>3-</sup> ions: Experimental and theoretical investigations                                                                                       | <b><i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i></b> | 209,   | 170-185.  | 2019 |
| 5.     | Kashif, M.; Hira, S. K.; Upadhyaya, A.; Gupta, U.; Singh, R.; Paladhi, A.; Khan, F. I.;                                                           | In silico studies and evaluation of antiparasitic role of a novel pyruvate phosphate dikinase inhibitor in Leishmania donovani infected macrophages                                                                                                          | <b><i>International journal of antimicrobial agents</i></b>                       | 53 (4) | 508-514   | 2019 |

|     |                                                                                                                                                |                                                                                                                                                                              |                                                                       |          |           |      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|-----------|------|
|     | Rub, A.; Manna, P. P.                                                                                                                          |                                                                                                                                                                              |                                                                       |          |           |      |
| 6.  | Dey, S.; Kumar, A.; Hira, S. K.; Manna, P. P.                                                                                                  | Detection of Hg <sup>2+</sup> ion using highly selective fluorescent chemosensor in real water sample and in-vitro cell study upon breast adenocarcinoma (MCF-7).            | <b><i>Supramolecular Chemistry</i></b>                                |          | 1-9       | 2019 |
| 7.  | Sampath Kumar Arepalli, Himanshu Tripathi, Partha Pratim Manna, Paliwal Pankaj, Sairam Krishnamurthy, Shashikant CU Patne, Ram Pyare, SP Singh | Enhanced in vivo biocompatibility of magnesia-contained bioactive glasses                                                                                                    | <b><i>Journal of the Australian Ceramic Society</i></b>               | 55       | 337-342   | 2019 |
| 8.  | Optimization of the bio-mechanical properties of Ti-8Si-2Mn alloy by 1393B3 bioactive glass reinforcement                                      | Optimization of the bio-mechanical properties of Ti-8Si-2Mn alloy by 1393B3 bioactive glass reinforcement                                                                    | <b><i>Materials Research Express</i></b>                              | 6 (7),   | 075401    | 2019 |
| 9.  | Sampath Kumar Arepalli, Himanshu Tripathi, Partha Pratim Manna, Paliwal Pankaj, Sairam Krishnamurthy, Shashikant CU Patne, Ram Pyare, SP Singh | Preparation and in vitro investigation on bioactivity of magnesia-contained bioactive glasses                                                                                | <b><i>Journal of the Australian Ceramic Society</i></b>               | 55 (1),  | 145-155   | 2019 |
| 10. | Himanshu Tripathi, Chandana Rath, Arepalli Sampath Kumar, Partha Pratim Manna, SP Singh                                                        | Structural, physico-mechanical and in-vitro bioactivity studies on SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> -SrO-Al <sub>2</sub> O <sub>3</sub> bioactive glasses | <b><i>Materials Science and Engineering: C</i></b>                    | 94,      | 279-290   | 2019 |
| 11. | Ahmed, E.; Lohar, S.; Ghatak, S.; Hira, S. K.; Manna, P. P.; Chattopadhyay, P.                                                                 | Development of a selective reaction-based turn-on fluorosensor and biomarker for hypochlorite ions in aqueous media.                                                         | <b><i>Analytical Methods</i></b>                                      | 11 (18), | 2415-2421 | 2019 |
| 12. | Adhikari, S.; Ta, S.; Ghosh, A.; Guria, S.; Pal, A.; Ahir, M.                                                                                  | A 1, 8 Naphthalimide anchor Rhodamine B Based FRET Probe for Ratiometric Detection of Cr <sup>3+</sup> ion in Living Cells.                                                  | <b><i>Journal of Photochemistry and Photobiology A: Chemistry</i></b> | 372      | 49-58     | 2019 |

|     |                                                                                                                                                                              |                                                                                                                                                                                                     |                                             |          |                |      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------|----------------|------|
|     | Adhikary, A.;<br>Hira, S. K.;<br>Manna, P. P.; Das,<br>D.                                                                                                                    |                                                                                                                                                                                                     |                                             |          |                |      |
| 13. | Srivastava, P*;<br>Hira, S. K*.;<br>Srivastava, D. N.;<br>Singh, V. K.;<br>Gupta, U.; Singh,<br>R.; Singh, R. A.;<br>Manna, P. P.<br>(*Equal<br>Contribution)                | ATP-Decorated Mesoporous<br>Silica for Biomineralization of<br>Calcium Carbonate and P2<br>Purinergic Receptor-Mediated<br>Antitumor Activity against<br>Aggressive Lymphoma                        | <b>ACS Appl. Mater.<br/>Interfaces</b>      | 10 (8)   | 6917-<br>6929  | 2018 |
| 14. | Srivastava, P.;<br>Hira, S. K.;<br>Gupta, U.; Singh,<br>V. K.; Singh, R.;<br>Pandey, P.;<br>Srivastava, D. N.;<br>Singh, R. A.;<br>Manna, P. P.,<br>(*Equal<br>Contribution) | Pepsin Assisted Doxorubicin<br>Delivery from Mesoporous Silica<br>Nanoparticles Downsizes Solid<br>Tumor Volume and Enhances<br>Therapeutic Efficacy in<br>Experimental Murine Lymphoma.            | <b>ACS Applied Bio<br/>Materials</b>        | 1 (6),   | 2133-<br>2140. | 2018 |
| 15. | Mohammad<br>Kashif, Shams<br>Tabrez, Atahar<br>Husein, Mohd<br>Arish, Ponnusamy<br>Kalaierasan,<br>Partha P Manna,<br>Naidu Subbarao,<br>Yusuf Akhter,<br>Abdur Rub          | Identification of novel inhibitors<br>against UDP-galactopyranose<br>mutase to combat leishmaniasis                                                                                                 | <b>Journal of cellular<br/>biochemistry</b> | 119 (3), | 2653-<br>2665  | 2018 |
| 16. | Mitra, K*.; Hira,<br>S. K.*; Singh, S.;<br>Vishwakarma, N.<br>K.; Vishwakarma,<br>S.; Gupta, U.;<br>Manna, P. P.;<br>Ray, B., (*Equal<br>Contribution)                       | In Vitro Anticancer Drug<br>Delivery Using Amphiphilic Poly<br>(N-vinylpyrrolidone) -b-<br>Polyketal-b-Poly (N-<br>vinylpyrrolidone) Block<br>Copolymer as Micellar<br>Nanocarrier.                 | <b>ChemistrySelect</b>                      | 3 (31)   | 8833-<br>8843. | 2018 |
| 17. | Srivastava, P*.;<br>Hira, S. K.*;<br>Sharma, A.;<br>Kashif, M.;<br>Srivastava, P.;<br>Srivastava, D. N.<br>N.; Singh, R. A.;<br>Manna, P. P.,<br>(*Equal<br>Contribution)    | Telomerase Responsive Delivery<br>of Doxorubicin from Mesoporous<br>Silica Nanoparticles in Multiple<br>Malignancies: Therapeutic<br>Efficacies against Experimental<br>Aggressive Murine Lymphoma. | <b>Bioconjugate Chem.</b>                   | 29 (6)   | 2107–<br>2119  | 2018 |

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|-----|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------|-------------|------|
| 18. | Ali, A.; Ershad, M.; Vyas, V. K.; Hira, S. K.; Manna, P. P.; Singh, B.; Yadav, S.; Srivastava, P.; Singh, S.; Pyare, R., | Studies on effect of CuO addition on mechanical properties and in vitro cytocompatibility in 1393 bioactive glass scaffold                                                                                                                  | <b><i>Mater. Sci. Eng.: C</i></b>         | 93     | 341-355     | 2018 |
| 19. | Kumar, A.; Mondal, S.; Kayshap, K. S.; Hira, S. K.; Manna, P. P.; Dehaen, W.; Dey, S.,                                   | Water switched aggregation/disaggregation strategies of a coumarin–naphthalene conjugated sensor and its selectivity towards Cu <sup>2+</sup> and Ag <sup>+</sup> ions along with cell imaging studies on human osteosarcoma cells (U-2 OS) | <b><i>New J. Chem.,</i></b>               | 42     | 10983-10988 | 2018 |
| 20. | Dwivedi, S. K.; Gupta, R. C.; Ali, R.; Razi, S. S.; Hira, S. K.; Manna, P. P.; Misra, A                                  | Smart PET based organic scaffold exhibiting bright “Turn–On” green fluorescence to detect Fe <sup>3+</sup> ion: Live cell imaging and logic implication                                                                                     | <b><i>J. Photochem. Photobiol., A</i></b> | 358    | 157-166     | 2018 |
| 21. | Srivastava, P*.; Hira, S. K*.; Srivastava, D. N.; Gupta, U.; Sen, P.; Singh, R. A.; Manna, P. P. (*Equal Contribution)   | Protease-Responsive Targeted Delivery of Doxorubicin from Bilirubin-BSA-Capped Mesoporous Silica Nanoparticles against Colon Cancer.                                                                                                        | <b><i>ACS Biomater Sci Eng.</i></b>       | 3 (12) | 3376-3385   | 2017 |
| 22. | Singh, V. K*.; Hira, S. K*.; Manna, P. P.; Singh, R. A (*Equal Contribution)                                             | Poly (m-chloroaniline) and poly (1-naphthylamine) based conjugated polymer for enhanced fluorescence imaging in diverse cell types                                                                                                          | <b><i>Synthetic Metals</i></b>            | 231    | 70-79       | 2017 |
| 23. | Saini R, K. P., Hira SK, Manna PP,                                                                                       | Evaluation of carbofuran mediated toxicity against human lymphocytes and red blood cells in simulated wastewater degraded by coagulation flocculation                                                                                       | <b><i>Environ Sci Pollut Res Int.</i></b> | 24(18) | 15315-15324 | 2017 |
| 24. | Kumar, A.; Kumari, C.; Sain, D.; Hira, S. K.; Manna, P. P.; Dey, S.                                                      | Synthesis of Rhodamine-Based Chemosensor for Fe <sup>3+</sup> Selective Detection with off–on Mechanism and its Biological Application in DL-Tumor                                                                                          | <b><i>Chemistry Select</i></b>            | 2 (10) | 2969-2974   | 2017 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------|--------------|------|
|     |                                                                                                                                             | Cells                                                                                                                                                                                       |                                          |        |              |      |
| 25. | M Kashif, P P Manna, Y Akhter, M Alaidarous, A Rub                                                                                          | Screening of novel inhibitors against Leishmania donovani calcium ion channel to fight leishmaniasis                                                                                        | <b>Infectious Disorders-Drug Targets</b> | 17(2)  | 120-129      | 2017 |
| 26. | Asthana, S. K.; Kumar, A.; Hira, S. K.; Manna, P. P.; Upadhyay, K.                                                                          | Brightening Quinolineimines by Al <sup>3+</sup> and Subsequent Quenching by PPI/PA in Aqueous Medium: Synthesis, Crystal Structures, Binding Behavior, Theoretical and Cell Imaging Studies | <b>Inorganic Chemistry</b>               | 56 (6) | 3315-3323    | 2017 |
| 27. | Mitra, K.; Singh, S.; Hira, S. K.; Patel, V. K.; Singh, D.; Vishwakarma, S.; Singh, R.; Kumari, A.; Manna, P. P.; Ray, B.                   | Study of the Fluorescence Based Applications of Pyrene-Tagged Poly (N-vinyl-2-pyrrolidone).                                                                                                 | <b>ACS Biomater Sci Eng.</b>             | 2 (9)  | 1630-1640    | 2016 |
| 28. | Kumar, P.; Singh, V.; Hira, S.; Manna, P.; Kumar, P., International,                                                                        | In vitro Cytotoxicity, Apoptotic and Hemolysis Assay of Kalsilite-Based Glass Ceramics for Dental Veneering Application.                                                                    | <b>Int. J. Appl. Ceram. Technol.</b>     | 13 (1) | 78-87.       | 2016 |
| 29. | Arepalli, S. K.; Tripathi, H.; Hira, S. K.; Manna, P. P.; Pyare, R.; Singh, S.                                                              | Enhanced bioactivity, biocompatibility and mechanical behavior of strontium substituted bioactive glasses.                                                                                  | <b>Mater. Sci. Eng.: C</b>               | 69     | 108-116      | 2016 |
| 30. | Hira, S. K.*; Ramesh, K.*; Gupta, U. K.; Mitra, K.; Misra, N.; Ray, B.; Manna, P. P. (*Equal Contribution)                                  | Methotrexate-loaded four-arm star amphiphilic block copolymer elicits CD8 <sup>+</sup> T cell response against a highly aggressive and metastatic experimental lymphoma.                    | <b>ACS Appl. Mater. Interfaces,</b>      | 7 (36) | 20021–20033  | 2015 |
| 31. | Vishwakarma, N. K.*; Patel, V. K.*; Hira, S. K.*; Ramesh, K.; Srivastava, P.; Mitra, K.; Singh, S.; Chattopadhyay, D.; Maiti, P.; Misra, N. | Tadpole-shaped $\beta$ -cyclodextrin-tagged poly (N-vinylpyrrolidone): synthesis, characterization and studies of its complexation with phenolphthalein and anti-tumor activities.          | <b>RSC Advances</b>                      | 5 (20) | 15547-15558. | 2015 |

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|-----|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|--------------|------|
|     | (*Equal Contribution)                                                            |                                                                                                                                                                                                              |                                    |           |              |      |
| 32. | Tripathi, H.; Hira, S. K.; Kumar, A. S.; Gupta, U.; Manna, P. P.; Singh, S.      | Structural characterization and in vitro bioactivity assessment of SiO <sub>2</sub> –CaO–P <sub>2</sub> O <sub>5</sub> –K <sub>2</sub> O–Al <sub>2</sub> O <sub>3</sub> glass as bioactive ceramic material. | <b>Ceram. Int.</b>                 | 41 (9)    | 11756-11769. | 2015 |
| 33. | Kumar, P. H.; Singh, V. K.; Srivastava, A.; Hira, S. K.; Kumar, P.; Manna, P. P. | Mechanochemically synthesized leucite based bioactive glass ceramic composite for dental veneering.                                                                                                          | <b>Ceram. Int.</b>                 | 41 (9)    | 11161–11168  | 2015 |
| 34. | Hira, S. K.; Mondal, I.; Manna, P. P.,                                           | Combined immunotherapy with whole tumor lysate–pulsed interleukin-15–activated dendritic cells and cucurbitacin I promotes strong CD8 <sup>+</sup> T-cell responses and cures highly aggressive lymphoma.    | <b>Cytotherapy,</b>                | 17 (5)    | 647-664      | 2015 |
| 35. | Hira, S. K.; Mondal, I.; Bhattacharya, D.; Gupta, K. K.; Manna, P. P.,           | Downregulation of STAT3 phosphorylation enhances tumoricidal effect of IL-15-activated dendritic cell against doxorubicin-resistant lymphoma and leukemia via TNF- $\alpha$ .                                | <b>Int. J. Biochem. Cell Biol.</b> | 67        | 1-13         | 2015 |
| 36. | Hira, S. K.; Mondal, I.; Bhattacharya, D.; Manna, P. P.,                         | Downregulation of endogenous STAT3 augments tumoricidal activity of interleukin 15 activated dendritic cell against lymphoma and leukemia via TRAIL.                                                         | <b>Exp. Cell Res.</b>              | 327 (2)   | 192-208      | 2014 |
| 37. | Manna, P. P.; Hira, S. K.; Basu, A.; Bandyopadhyay, S.,                          | Cellular therapy by allogeneic macrophages against visceral leishmaniasis: role of TNF- $\alpha$ .                                                                                                           | <b>Cell. Immunol.</b>              | 290 (1)   | 152-163.     | 2014 |
| 38. | Hira, S. K.; Mishra, A. K.; Ray, B.; Manna, P. P.                                | Targeted delivery of doxorubicin-loaded poly ( $\epsilon$ -caprolactone)-b-poly (N-vinylpyrrolidone) micelles enhances antitumor effect in lymphoma.                                                         | <b>Plos one</b>                    | 9 (4)     | e94309       | 2014 |
| 39. | Manna, P. P.; Hira, S. K.; Das, A. A.; Bandyopadhyay, S.; Gupta, K. K.,          | IL-15 activated human peripheral blood dendritic cell kill allogeneic and xenogeneic endothelial cells via apoptosis.                                                                                        | <b>Cytokine</b>                    | 61 (1)    | 118-126      | 2013 |
| 40. | Hira, S. K.; Manna, P. P.,                                                       | Down regulation of CD24 and HER-2/neu in breast carcinoma cells by activated human dendritic cell. Role of STAT3.                                                                                            | <b>Cell. Immunol.</b>              | 275 (1-2) | 69-79        | 2012 |

|     |                                                                                                                |                                                                                                                                                                                                               |                                                                           |               |             |      |
|-----|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------|-------------|------|
| 41. | P.P. Manna, G. Chakrabarti, S. Bandyopadhyay,                                                                  | Innate immune defense in visceral leishmaniasis: cytokine mediated protective role by allogeneic effector cell,                                                                                               | <b>Vaccine,</b>                                                           | 28            | 803-810     | 2010 |
| 42. | S. Hagnerud, P.P. Manna, M. Cella, A. Stenberg, W.A. Frazier, M. Colonna, P.A. Oldenborg                       | Deficit of CD47 results in a defect of marginal zone dendritic cells, blunted immune response to particulate antigen and impairment of skin dendritic cell migration,                                         | <b>Journal of immunology</b>                                              | 176           | 5772-5778.  | 2006 |
| 43. | P.P. Manna, J. Dimitry, P.A. Oldenborg, W.A. Frazier,                                                          | CD47 augments Fas/CD95-mediated apoptosis,                                                                                                                                                                    | <b>The Journal of biological chemistry,</b>                               | 280           | 29637-29644 | 2005 |
| 44. | P.P. Manna, W.A. Frazier                                                                                       | CD47 mediates killing of breast tumor cells via Gi-dependent inhibition of protein kinase A                                                                                                                   | <b>Cancer research,</b>                                                   | 64            | 1026-1036   | 2004 |
| 45. | P.P. Manna, A. Jaramillo, K. Majumder, L.G. Campbell, T.P. Fleming, J.R. Dietz, J.F. Dipersio, T. Mohanakumar, | Generation of CD8+ cytotoxic T lymphocytes against breast cancer cells by stimulation with mammaglobin-A-pulsed dendritic cells,                                                                              | <b>Breast cancer research and treatment,</b>                              | 79            | 133-136     | 2003 |
| 46. | P.P. Manna, W.A. Frazier,                                                                                      | The mechanism of CD47-dependent killing of T cells: heterotrimeric Gi-dependent inhibition of protein kinase A,                                                                                               | <b>Journal of immunology,</b>                                             | 170           | 3544-3553   | 2003 |
| 47. | P.P. Manna, N. Steward, J. Lowell, T. Mohanakumar,                                                             | Differentiation and functional maturation of human CD14(+) adherent peripheral blood monocytes by xenogeneic endothelial cells: up-regulation of costimulation, cytokine generation, and toll-like receptors, | <b>Transplantation</b>                                                    | 74            | 243-252     | 2002 |
| 48. | P.P. Manna, T. Mohanakumar                                                                                     | Human dendritic cell mediated cytotoxicity against breast carcinoma cells in vitro                                                                                                                            | <b>Journal of leukocyte biology</b>                                       | 72            | 312-320.    | 2002 |
| 49. | A. Jaramillo, K. Majumder, P.P. Manna, T.P. Fleming, G. Doherty, J.F. Dipersio, T. Mohanakumar,                | Identification of HLA-A3-restricted CD8+ T cell epitopes derived from mammaglobin-A, a tumor-associated antigen of human breast cancer,                                                                       | <b>International journal of cancer</b>                                    | 102           | 499-506     | 2002 |
| 50. | S. Adhya, M.Q. Hassan, S. Mukherjee, P.P. Manna, A. Basu, S. Sen, S. Bandyopadhyay,                            | Visceral leishmaniasis in India: promises and pitfalls of a PCR-based blood test,                                                                                                                             | <b>Transactions of the Royal Society of Tropical Medicine and Hygiene</b> | 96<br>Suppl 1 | S179-183    | 2002 |
| 51. | S.S. Metkar, P.P. Manna, M. Anand, K.N. Naresh, S.H. Advani, J.J. Nadkarni,                                    | CD40 Ligand--an anti-apoptotic molecule in Hodgkin's disease                                                                                                                                                  | <b>Cancer biotherapy &amp; radiopharmaceuticals</b>                       | 16            | 85-92       | 2001 |

|     |                                                                                                   |                                                                                                                                                                       |                                                                            |     |           |      |
|-----|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----|-----------|------|
| 52. | P.P. Manna, B. Duffy, B. Olack, J. Lowell, T. Mohanakumar                                         | Activation of human dendritic cells by porcine aortic endothelial cells: transactivation of naive T cells through costimulation and cytokine generation,              | <i>Transplantation</i>                                                     | 72  | 1563-1571 | 2001 |
| 53. | S.S. Metkar, K.N. Naresh, P.P. Manna, V. Srinivas, S.H. Advani, J.J. Nadkarni,                    | Circulating levels of TNF alpha and TNF receptor superfamily members in lymphoid neoplasia                                                                            | <i>American journal of hematology,</i>                                     | 65  | 105-110   | 2000 |
| 54. | S.S. Metkar, M. Anand, P.P. Manna, K.N. Naresh, J.J. Nadkarni                                     | Ceramide-induced apoptosis in fas-resistant Hodgkin's disease cell lines is caspase independent,                                                                      | <i>Experimental cell research,</i>                                         | 255 | 18-29     | 2000 |
| 55. | G. Chakrabarti, A. Basu, P.P. Manna, S.B. Mahato, N.B. Mandal, S. Bandyopadhyay,                  | Indolylquinoline derivatives are cytotoxic to Leishmania donovani promastigotes and amastigotes in vitro and are effective in treating murine visceral leishmaniasis, | <i>The Journal of antimicrobial chemotherapy</i>                           | 43  | 359-366   | 1999 |
| 56. | G. Chakrabarti, A. Basu, P.P. Manna, S. Bhattacharya, S. Sen, S. Bandyopadhyay,                   | Peripheral blood mononuclear cells of patients with Indian visceral leishmaniasis suppress natural killer cell activity in vitro                                      | <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i>  | 90  | 582-585   | 1996 |
| 57. | P.P. Manna, G. Chakrabarti, S. Bhattacharya, K.K. Mallik, D. Basu, S. Bandyopadhyay,              | Plasma of Indian kala-azar patients suppresses natural killer cell activity in vitro,                                                                                 | <i>Transactions of the Royal Society of Tropical Medicine and Hygiene,</i> | 88  | 247-248   | 1994 |
| 58. | P.P. Manna, D. Bharadwaj, S. Bhattacharya, G. Chakrabarti, D. Basu, K.K. Mallik, S. Bandyopadhyay | Impairment of natural killer cell activity in Indian kala-azar: restoration of activity by interleukin 2 but not by alpha or gamma interferon                         | <i>Infection and immunity</i>                                              | 61  | 3565-3569 | 1993 |
| 59. | S. Bhattacharya, P.P. Manna, S. Bandyopadhyay                                                     | IFN-gamma is directly cytostatic to the extracellular form (promastigote) of Leishmania donovani                                                                      | <i>Scandinavian journal of immunology</i>                                  | 37  | 680-683   | 1993 |

### 13. Detail of patents.

None

### 14. Books/Reports/Chapters/General articles etc.

| S. No | Chapter title with page nos. | Book title & Publisher | ISSN/ISBN No. | Whether peer reviewed. | Whether you are the first author or co-author | No. of co-authors |
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|---|------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|-----|---------------|---|
| 1 | Tumor Antigen/Cytokine-Pulsed Dendritic Cells in Therapy Against Lymphoma<br><b>1139:45-56</b> | Edited Book Chapter 6 | A product of Humana Press<br>1064-3745 | Yes | Corresponding | 2 |
|---|------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|-----|---------------|---|

15. Any other Information (maximum 500 words): None

#### Project Implemented

| S. No. | Title                                                                                                                                                      | Agency   | Period    | Amount of Grant |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------------|
| 1.     | Synthesis, characterization, and application of novel aliphatic polyketal based amphiphilic block co-polymers (PI)                                         | DBT-GOI  | 2013-2016 | Rs 112.37 Lakh  |
| 2.     | Dendritic cell mediated immunotherapy in murine lymphoma: role of cytokine (PI)                                                                            | DST-SERB | 2011-2014 | Rs. 17.90 Lakh  |
| 3.     | Melatonin and cytokine (IL-2, IL-6, and TNF- $\alpha$ and IFN- $\gamma$ ) cross-talk in regulation of immune function in Indian Goat, Capra hircus (Co-PI) | DBT, GOI | 2011-2014 | Rs. 39.70 Lakh  |
| 4.     | Dendritic cell mediated immune response in endothelial cell: implication in transplantation (PI)                                                           | DBT, GOI | 2010-2013 | Rs. 47.39 Lakh  |