

Details of Nominations for the National Women Bioscientist Award Young Category -2016

S. No	Name & Address of the Nominee	Date of Birth/Age as on 31.12.2016	Name & Address of the Nominator	Field of Specialization	No. of publications/ patents/books	Summary of most significant work on which nomination is made	Technologies Developed & Status of Commercialization	Title of the project proposal for Career Development	
1.	Dr. Yasmin Ahmad, Scientist D, Defence Institute of Physiology and Allied Sciences,(DIPAS), DRDO, Timarpur, Delhi- 110054 Email- yasminchem@gmail.com	12 th February, 1979 (37 years)	Dr K. Ramachandran Director, Defence Institute of Physiology and Allied Sciences, DRDO, Timarpur, Delhi- 110054	Biosciences	Publications-10 Book/Review-3 Patent-NIL	The investigation of Proteomic perturbations during hypobaric hypoxia in rats. By 2016, we have identified putative biomarkers in humans and plan to develop an immunosensor for hypobaric hypoxia susceptibility. Also, a herbal side-effect free prophylactic low dosage aqueous suspension of micronized silymarin has been developed.	NIL	Towards an objective of Diagnostic and Therapeutic Solution against Hypobaric Hypoxia Maladies.	Please click
2.	Dr. J. Manjula, Lead of Member Technical Staff Bigtec Private Limited, bigtec labs, 2 nd floor , Golden Heights , Building 4th 'M' Block , 59th 'C' Cross, Rajajinagar, Bangalore- 560010	9 th April 1974 (42 years)	Dr. S.K. Ghosh Scientist-G & Officer- In Charge National institute of Malaria research Field unit, , Nirmal Bgawan-ICMR Complex, Bengaluru	Immunology , Protein chemistry , Molecular Biology, Enzymology Biochemistry	Publications-10 Book/ Review- Nil Patent (applied for)-08 Granted- 02	Nominee has contributed in developing quick, sensitive, low cost, battery operated point of care diagnostics tests, which in facts is the most important need for the country in current situation. This is the first Indian device exclusively made in the country when there is competition from countries world –wide.	Developed Tuelab™ Uno micro PCR system along with Truenat™ microchips Commercialized by Molbio	Triplex Real-time PCR assay for the detection of Zika, dengue and Chikungunya infections on point of care micro PCR platform.	Please click

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3.	<p>Renu Saini, PhD Scholar,</p> <p>Department of Neurosurgery, Room No -312, JPNA Trauma centre, AIIMS, New Delhi Email- renuaiims2005@gmail.com Tel- 9990075276</p>	<p>1st June, 1984 (32 yrs 6months 30 days)</p>	<p>Director, AIIMS, New Delhi</p>	<p>Stem cell , Traumatic Head & Spinal Cord Injury</p>	<p>Publications-10 Book s / Review-Nil Patent-Nil</p>	<p>Although there is lot of scattered work on the use of stem cells in spinal cord injury, its use has not yet been defined due to lack of rigorously designed trial(s) . We have conducted the only randomized placebo controlled trial in complete spinal cord injury which shows that stem cells may be useful in improving functional outcome in these patients.</p>	<p>Kinect camera for hand washing compliance – currently prototype being developed.</p>	<p>Safety & feasibility of Autologous Bone Marrow Mononuclear Stem Cell In Traumatic Brain Injury</p>	<p>Please click</p>
4.	<p>Dr. K. Ramani, Assistant Professor, Biomol velcues and Biocatalysis laboratory, Department of Biotechnology, SRM University, SRM Nagar, Kattankulathur, Chennai-603203, Tamil Nadu Email- ramani.k@ktr.srmuniv.ac.in, microramana@yahoo.co.in</p>	<p>15th May, 1980 (36 yrs 7 months) Proof DOB Not attached</p>	<p>Registrar SRM University SRM Nagar, Kattankulathur-603203</p>	<p>Environmental Biotechnology</p>	<p>Publications-10 Book -01 Patent (Granted)- 02</p>	<p>1.The development of transposon mutagenesis system for the removal of high strength ammoniacal nitrogen (> 500 ppm) from the pharmaceutical and pigment industry effluents and collaboration with Heubach Industry of the up gradation of biological treatment plant for the industry (MOU between SRM University and Heubach Colour Pvt. Ltd., Gujarat is</p>	<p>The industrial effluent is a major issue in all over the world. The industries are looking for a viable biological treatment system to tackle the issues related to that. Hence, She has developed a high strength NH3-N degrading microbial system for the treatment of NH3-N in the pigment industry effluent. The microbial system is</p>	<p>Leather industry solid waste derived long chain fatty acid-A potential agent for the tertiary treatment of multidrug resistant organisms in municipal waste water.</p>	<p>Please click</p>

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						<p>enclosed.)</p> <p>2. Developemnt of Biosurfactant and biocatalyst based bioformulation from the efficient strain which bioremediation the petroleum oil sludge with better effectiveness in short duration of the time for enhanced removal of petroleum oil from the bottom tank oil sludge in short duration of the time and collaboration with Chennai Petroleum Corporation Ltd for the Bioremediation of petroleum refinery oil sludge (MOU between SRM University and Chennai petroleum Corporation Ltd., Chennai is enclosed.)</p> <p>3. The Development of strain improvement process by the transposon mutagenesis system for the enhanced production of various biomolelcues such as biosurfactants and biocatalysts and thereof for the treatment of various environment pollutants (Research proposal approval letter from DBT, Ministry of</p>	<p>used in the Heubach Colour Pvt Ltd, Gujarat. The MOU with Heubach industry is enclosed herewith. Also, developed a transposon mutants system (Fig . 1 and 2) for the treatment of high strength NH3-N containing wastewater. Their existing biological treatment system was not efficient enough to treat such high concentration of ammonia. Even a 100 ppm of NH3-N is highly toxic to the bacterial community in the aerobic secondary biological treatment system of the effluent treatment plant. Hence, we isolated an efficient microbial system and carried out the strain improvement process in order to achieve the higher efficiency. The same process is being applied for the treatment of NH3-N in the pharmaceutical industry effluent.</p>		

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						<p>Science and Technology, Government of India is enclosed).</p> <p>4. The development of immobilized enzyme/cell reactor and biosurfactant immobilized systems for the treatment of various industrial liquid and solid wastes such as slaughterhouse industry wastes, fish processing industry wastes, edible oil industry wastes, pigment industry effluents and pharmaceutical industry effluents, domestic waste water etc.</p>	<p>Another process development is the preparation of biosurfactant and biocatalyst (enzyme), formulation to treat the petroleum oil refinery bottom tank sludge. Hence, we prepared the bioformulations (biosurfactant-biocatalyst)a and provided for the Chennai Petroleum Corporation Ltd., (CPCL), Chennai to carry out the pilot scale study. The MOU with CPCL is enclosed . To improve the yield of the biosurfactant and biocatalysts , we are constructing the transposon mutagenesis system and then it will be used for the treatment of oil sludge. Recently, the proposal is approved for funding by DBT, Ministry of Science and Technology, Government of India of the funding (the approval letter is enclosed) under the Biosystems &</p>	

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							Bioprocess Engineering scheme.		
5.	Dr. Shailly Tomar, Associate Professor, Indian Institute of Technology, Roorkee-247667 Tel- 01332-285849, 09760239252 Email- shailfbt@iitr.ac.in , shaiprav@gmail.com	30 th June, 1978 (38 yrs 6 months)	Director (Offg.) Indian Institute of Technology, Roorkee	Virology and Structure Biology	Publications-10 Book/Review-03 Book-02 Patent - Nil	Dr. S . Tomar has reported the trans-activity of capsid protease of Chikungunya and has developed a FRET based HTP inhibitor screening protease assay for identification of drug molecules in her research publication Aggarwal et al.' 2015 Nature Sci. Rep . 5, 14753. Chikungunya is member of the alphavirus genus that has re-emerged in the Indian subcontinent and is a threat to the world. This work of hers will be beneficial in identification and development of antiviral drugs against Chikungunya disease.	Nil	Molecular characterisation of host pathogen interaction in Chikungunya virus and discovery of antiviral molecules.	Please click
6	Prof. Latha Rangan, Professor, Departemnt of Biosciences and Bioengineering, Indian Institute of Technology, Guwahati, Assam-781039 Tel- 0361-2592214	13 th January, 1973 (43 yrs 11 months)	Director, Indian Institute of Technology, Guwahati, Assam-781039	Plant Biotechnology (Applied Biodiversity)	Publications-10 Books/Review-02 Patent (applied for)- Nil	Made significant contributions to the Understanding of Zingibereceae family of medicinally important plant species and demonstrated its utility in crop improvement. The work has both theoretical and applied	Nil	Incipient speciation and chemovars in medical plants- Alpinia as a case study.	Please click

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	Mob- 09435016913 E,ail- l.rangan@iitg.ernet.in					significance. An indepth study documenting the ethno- medicinal usage of plants, instruction of a database for dissemination of the knowledge, genome composition reconstruction of phylogeny using organellar genome , marker development and mining of useful bioactive molecules has been successfully carried out.			
7.	Dr. Swaleha Zubair , Assistant Professor, Aligarh Muslim University, Aligarh Email- swalehazubair@yahoo.com	15 th July, 1972 (44 yrs 5 months)	Registrar Aligarh Muslim University, Aligarh	Nano technology and Vaccine Development	Publications-11 Books/Review-02 US Patent-01	Dr. Swaleha has been working on development of novel systems for the in vivo delivery of drugs and antigens. She has developed nano-particle carriers for delivery of chemotherapeutic agents including siRNA for elimination of drug resistant pathogens and cancers. She has also developed nano particle based subunit vaccines. Further she demonstrated that amyloids release monomeric protein in slow and sustained manner and can be exploited as potential	Nil	Computer aided multi-parameter vaccine design: prophylactic measure against intracellular pathogens.	Please click

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						vaccine against intracellular pathogens.			
8.	Dr. Sujatha Sunil, Group Leader, Vector Borne Diseases Group, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi-110067 Tel- 011-26741358 Email- sujatha@icgeb.res.in	4 th April, 1972 (44 years)	Director, International centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi-110067	Vector Borne Diseases	Publications-10 Books/Review- Nil Patents-01	The most significant contribution on the basis of which I recommend for the award is for identifying suppressors of RNA interference in chikungunya virus, the first ever to be identified in alphaviruses and her contribution to identifying distinct metabolite that are regulated during monoinfections and coinfections of chikungunya virus and dengue virus.	Nil	Impact of arboviral infections on Aedes immunity	Please click
9.	Dr, Priyanka Sabherwal , Scientist-C Institute of Nano Science and Technology, An Autonomous Institute of Department of Science and Technology, Habitat Centre , Sector-64, phase-X, Mohali-160062, Punjab Tel- 9041246917 Email- psnanobiotech@gmail.com , priyanka@inst.ac.in	30 th April 1983 (33 yrs)	Prof Ashok K Ganguli, Director, Institute of Nano Science and Technology, An Autonomous Institute of Department of Science and Technology, Mohali- 160062, Punjab	Nano Biotechnology	Publications-10 Books/Review-2 Patents- Nil	Dr. Priyanka's has developed low cost effective biosensors for clinical diagnostics (cardiac markers) and environmental monitoring (pesticides). The developed sensor comprises nanostructured platform where variously modified nanostructured are bioconjugated with specific screened aptameters to have desired signal in the presence of the target	Dr. Priyanka and her students have developed nanostructured aptasensors for the detection of a key protein marker, Myoglobin in the patients's blood indicating the possibility of cardiac arrest. They have screened specific DNA aptamers selected from the pool of random- sequence oligonucleotides and demonstrated its	Paper based Biochip coupled with electrochemical aptasensor for cardiac management.	Please click

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						<p>analyte. The innovative elements include design and development of aptamers, variously modified nanostructures and their bioconjugation to have enhanced signal leading to high specificity and sensitivity.</p>	<p>usage in a newly developed direct electron transfer based assay format for Myoglobin detection on nanostructured aptasensor. The sensor has a detection range of 1pg/ml to 16ug/mL and costs Rs. 500 making the system more sensitive and cost-effective than any other commercial sensing platform.</p>		
10	<p>Dr. Rashna Bhandari, Staff Scientist and Group leader, Laboratory of cell Signaling, Centre for DNA Fingerprinting and Diagnostics, Laboratory Block, Tuljaguda Complex, Nampally, Hyderabad- 500001 Tel- 040-24749430, 9701234182 Email- rashna@cfd.org.in</p>	<p>8th December, 1972 (44 yrs 23 months)</p>	<p>Dr. Ranjan Sen, In charge Director, Centre for DNA Fingerprinting and Diagnostics, Laboratory Block, Tuljaguda Complex, Nampally, Hyderabad- 500001</p>	<p>Biochemistry and Cell Biology</p>	<p>Publications- 10 Books/Review -4 Patents- Nil</p>	<p>The most significant findings by the nominee are:-</p> <ol style="list-style-type: none"> 1. Identification of the first mouse model to study the functions of polyphosphate in blood clotting 2. Demonstration of ip7-mediated pyrophosphorylation of the housekeeping proteins RNA Pol I and the dynein motor, highlighting Ip7 as a key regulator of cell physiology 	<p>Nil</p>	<p>Investigating the role of inositol hexakisphosphate kinase-I (IPK6I) in mRNA metabolism.</p>	<p>Please click</p>

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11	Dr. (Mrs.) Aakanchha Jain, Associate Professor, Bhagyoday Tirath Pharmacy College , Sagar, M.P Mob- 09497525548 Email- jainaakanchha83@g mail.com	21 st November, 1983 (33 yrs 1 months 10 days)	Chairman	Pharmaceutica l Sciences (Pharmaceutic al Biotechnology)	Publications- 10 Books/Review -3 Patents-Nil	The work entitled “Colon Cancer Targeting Through Caspase-3 Activator Encapsulated Surface Engineered Nanoparticles” is the one on which recommendation is based for the award. The topic signifies the entrapment of a highly potent drug which is usually given through invasive routes but has very long half life of about 1660 h due to its high alpha amino glyco-protein binding in plasma/ blood. This causes many side effects. Thus, an alternative route of administration needs to be explored and this project proved to be an effective way to target such a moiety through oral route, reducing the side effects associated with invasive route.	Nil	Preparation and Evaluation of Cell Selective Mitochondriotropic dual purpose Carrier System for Cancer therapy.	Please click

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12	Dr. Uma Ramakrishnan, Associate Professor, Ecology and Evolution National centre for biological Sciences, TIFR, GKVK Campus, Bellary road, Bangalore-560065 Tel- 9845436445 Email- uramakri@ncbs.res.in	23 rd December, 1972	Prof. Satyajit Mayor, Director NCBS, National Centre for Biological Sciences, TIFR, GKVK Campus, Bellary road, Bangalore-560065	Molecular Ecology/ Conservation Genetics	Publications-10 Books/Review- Nil Patents- Nil	The nominee research has allowed us to understand the genetic structure of Indian tigers. Data from historical tiger skins and field-collected fecal DNA suggests how humans are affecting tigers and provides insights that could ensure species survival. More generally, the nominee uniquely investigates the origins and genetic status of Indian biodiversity.	Nil	Identifying tigers involved in human conflict using non-invasive conservation genomics	Please click
13	Dr. Sarika , Senior Scientist, CSIR- Central Drug Research Institute Sector- 10/2 Jankipuram Extension, Sitapur Road, Lucknow-226031 Tel- 0522-2612411-18 Email- sj3010@gmail.com sarika_singh@cdri.res.in	1 st January ,1979 (38 yrs)	Director, CSIR- Central Drug Research Institute Sector- 10/2 Jankipuram Extension, Sitapur Road, Lucknow-226031	Neurosciences	Publications-10 Books/Review-2 Patents (applied for-01)	Applicant has significantly contributed in both applied and basic research. Dr Sarika has conducted and contributed in the pre-clinical studies of five molecules which are in clinical phase trials presently. Most impressively the work contributed by her is published in high impact journal nature Biotechnology (IF-43.1) recently. Dr sarika has identified new signaling mechanisms in Parkinson's and alzheimer's pathology along with new targets	CSIR technology Award 2008 for innovation Team CDRI and discovery of guggulsterones and development of analogues with novel mechanism of action as hypolipidemic agent collaborated with IPCA Laboratories.	Development of CDRI08 as a novel Disease-modifying therapeutics for Parkinson's disease.	Please click

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						of existing nootropic drug.			
14	Dr. Charu Lata, Scientist, CSIR-National Botanical Research Institute , Rana Pratap Marg, P.O. Box 436A, Lucknow- 226001 Tel- 2297996 Email- charulata@nbri.res.in	14 th December, 1981 (35 yrs 17 months)	Prof. S.K. Barik Director, CSIR-National Botanical Research Institute, Rana Pratap Marg, P.O. Box 436A, Lucknow- 226001	Plant Molecular Biology	Publication-10 Books Chapters- 3 Review Articles-06 Patents-Nil	The significant contributions towards characterization of a novel DREB2-like gene SiDREB2 from foxtail millet and development of a functional marker useful for allele mining and marker-aided breeding for dehydration tolerance. Dr. Lata has 20 publications in journals and books of international reput.	The allele specific marker developed for dehydration tolerance in foxtail millet is being used for allele mining and marker-aided breeding of foxtail millet by the Tamil Nadu Agricultural University,Coimbatore, Tamil Nadu.	Targeted gene editing in stress responsive transcription factor in rice using CRISPR/cas9 system.	Please click
15	Dr. Bhupinder Dhir, Post Doctoral Fellow, Departemnt of Genetics , University of Delhi South Campus, New Delhi- 110021	28 th August, 1973 (43 yrs 4 Months 3 days)	Director, University of Delhi South Campus, New Delhi- 110021	Environmental Botany, Toxicology	Publications-10 Books/Review-3 Book Chapters- 5 Patents-Nil	The most significant contributions can be summarized as under 1.Development of eco-friendly technology for wastewater	Pilot studies related to wastewater treatment using biological means are underway. Field trials for reuse of treated wastewater have also been initiated.	Role of organic soil supplements in improving the quality of Indian soils.	Please click

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	Tel- 24110866 Email- bhupdhir@gmail.com					treatment. 2.Develop strategies for reuse of treated wastewater 3.Development of eco-friendly technology for disposal of solid waste such as sludge released as a byproduct of wastewater treatment	Collaborative work with common Effluent Treatment Plants (CETPs) has been conducted.		
16	Dr. Jeevigunta Naveena Lavanya Latha, Assistant Professor, Department of Biotechnology, Krishna University, Machilipatnam, Andhra Pradesh Tel- 08672-225963, 9290907081 Email- jnlavanyalatha@yahoo.co.in	11 th August, 1977 (38 yrs 10 months)	Vice Chancellor Krishna University, Machilipatnam, Andhra Pradesh	Fungal Signaling, Medical Mycology, Environmental Biotechnology	Publications- 13 Book/Review- 07 Patents- Nil	The sufficient expertise in fungal biotechnology field. She worked on different fungal signaling aspects and anti infective area during her stay in Dr.Reddys, Hyd. The applicant is currently working with Candida for the proposed disease and had already published an article in a peer reviewed journal. Also she possess high level of expertise in cell culture work and molecular cloning and expression.	Developed the conversion of hard water to soft water using bioremediation technology. In relation to this work, we undertake a screening for metal ion hyper accumulating strains of microorganisms. We have prepare various modified forms of biosorbents /isolated cell wall preparation and develop methods for immobilization of biosorbents /isolated cell wall preparation in matrices suitable for withstanding the rigors of contact processes to remove toxic metal ions from ground water as well as marine water. We are	Exploring the new targets for treatment of Candida vaginitis	Please click

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							designing a pilot-scale model MOBILE BIOREMEDIATION UNIT (MBU) for the removal of toxic/unwanted metal ions from ground water and marine water (ongoing). We are yet to study hydro dynamic characteristics of water samples (ground water and marine water) in mobile bioremediation unit to stimulate process conditions and develop modules.		
17	Dr. Deepali Jain, Associate Professor, Department of Pathology, All Indian Institute of Medical Sciences, New Delhi- 110029 Tel- 011-26594774, 9868895112 Email- deepalijain76@gmail.com	8 th July, 1975 (41 yrs 5 Months)	Prof. M.C. Misra Director, All Indian Institute of Medical Sciences, New Delhi- 110029	Pathology	Publication-10 Book/Review-7 Book Chapters- 3 Patents-Nil	Lung cancer is the number one cancer killer and the incidence of lung cancer is increasing in India. Recent research has shown many molecular pathways behind lung cancer pathogenesis. The research area pursued by Dr. Jain is likely to benefit lung cancer patients by Helping them not only in accurate diagnosis but als in management by identifying predictive and prognostic biomarkers and drug	Nil	A molecular study on Genotoxicity biomarkers, Epigenetic modifications and altered gene expression in the autopsied normal lung tissue samples.	Please click

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						resistant mechanisms.			
18	Dr. Priya Srinivas, Scientist-EII, Cancer Research Program, Rajiv Gandhi Centre for Biotechnology, Thycaud P.O. , Thiruvananthapuram-695014 Tel- 0471-2529495, 9447024097 Email- priyasrinivas@rgcb.res.in , Priyasrinivas2000@yahoo.com	23 rd May, 1972 (44 yrs 7 months)	Prof. M. Radhakrishnan Pillai Director, Rajiv Gandhi Centre for Biotechnology, Thycaud P.O. , Thiruvananthapuram-695014	Cancer Biology	Publications-10 - Patents-Granted -01 Book/Review-05	Dr. Priya Srinivas and her colleagues proved that a naphthquinone derivative, plumbagin isolated from Pumbago species of plants , shows targeted anticancer activity in BRCA1 defective cancers. Along with ROS mediated DNA damage, plumbagin inhibits multiple tumourigenic pathways in DNA repair defective BRCA1 deficient cells, resulting in induction of apoptosis.	Nil	hCG exposure on breast cancer risk in BRCA1 defective conditions.	Please click
19	Dr. Shubhangi K Pingle, Senior Research officer, National Institute of Miners' Health , Wadi, Nagpur-440023 Tel- 91-224494,95 Mob- 9960340692	2 nd October, 1974 (42 yrs 2 months 29 days)	Dr. B. B. Mandal Deputy Director, National Institute of Miners' Health , Wadi, Nagpur-440023	Biological Sciences Human Health	Publication-11 Book - /Review-4 Patents-Granted-1 (applied for-2	Four promising biomarkers were identified for early detection of Noise Induced hearing Loss by using serum. This is first time reported in the serum of human beings by the nominee. It was found that 52% of the individual can be saved with theses markers . Nominee is	1. Development of multiplex ELISA for early diagnostics of Noise Induced Hearing Loss among Noise Exposed worker. 2.A method for detection of aluminum (Al) in biological fluid . 3. The in house kit was developed to determine the Sickle	Development of the protein based early detection markers of Noise Induced Hearing Loss in Noise (NIHL) Exposed population n	Please click

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	Email- skpingle@nimh.gov.in Pingle.shubhnagi@gmail.com					submitting six patents on the inventions. Invented markers though this study is very innovative which was not reported earlier by scientists.	cell anemia pattern.		
20	Aruna Anil Jawade, Junior Scientific Officer, National Institute of Miners' Health (NIMH), JNARDDC Campus, Amravati Road, P.O. Wadi, Nagpur – 440023 (M.S.) India. Phone No.(Off.): +91 (7104) -224494,95. Mobile No.: 09766497212 Email: ajawade28@rediffmail.com	7 th June, 1974 (42 Years 7 Months 23 Days)	Dr. B. B. Mandal Deputy Director, National Institute of Miners' Health , Wadi, Nagpur-440023	(Biological Sciences) Human Health	Publications-08 Book / Review -03 Patents- Applied -1	Trouble shooting for contamination elimination in whole blood processing is an important factor in the determination of Al in any biological sample. A detailed troubleshooting protocol was developed and further standardized for Aluminum estimation. Nominee is submitting patents on the development of trouble shooting protocol in Al estimation. Newly developed protocol is very innovative which was not reported earlier by scientists	1. Development of multiplex ELISA for early diagnosis of Noise Induced Hearing Loss among Noise Exposed Worker. 2. A method for detection of Aluminium (Al) in biological fluid	Health impact of coal mining and fly ash exposure on the population residing in the vicinity of Chandrapur district, Central India.	Please click
21	Dr. Ranjana Arya, Assistant Professor, Room No. 127, School of Biotechnology, Jawaharlal Nehru University, New Delhi-110067, ph- 011-26738754 Email- arya.ranjana24@gmail.com ,	24 th September, 1972, (44 yrs)	Prof. M. Jagadesh Kumar Vice Chancellor Jawaharlal Nehru University, New Delhi-110067,	Cell Biology/rare genetic disorder	Publications-19 Book / Review -01 Patents-02	In absence of in vivo animal models for GNE myopathy, Ranjana has established a cell based model system for understanding path mechanism and drug screening of rare	Nil	Role of chaperones in combating ER stress in rare genetic disorders associated with sialic acid metabolism	Please click

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	ranjanaa@mail.jnu.ac.in					genetic disorder associated with sialic acid metabolism, GNE myopathy. She identified key molecules regulating cell adhesion, mitochondrial dependent apoptosis and protein misfolding leading to ER stress that could be potential drug targets for this disorder.			
22	Dr . Debasree Dutta, Scientist-EI, Rajiv Gandhi centre for Biotechnology,	24 th Nov, 1976 (40yrs 1 months 7 days)	Prof. M. Radhakrishnan Pillai Director, Rajiv Gandhi Centre for Biotechnology,	Cell & developmental Biology, Epigenetics, cancer	Publications-10 Book / Review -01 Patents-01	Derivation of iPSCs poses great challenge in terms of very low efficiency. Debasree's	Granted US Patent	Evaluation of Histone chaperone APLF as a novel biomarker in Triple Negative Breast Cancer (TNBC)	Please click

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	Cancer Research Program, Thycaud PO, Poojappura, Thiruvanthapuram-695014 Tel- 04712529597, 919746382366 Email- debasreedutta@rgcb.res.in debasreeduttala@gmail.com		Thycaud P.O. , Thiruvanthapuram-695014	Biology		group demonstrated APLF could regulate mesenchymal-to epithelial transition (MET) resulting in enhanced efficiency within reduced time period. Understanding APLF's role in MET associated cancer metastasis, constitutes perfect extension of this finding which will further enrich the field both scientifically and clinically .			
23	Dr. Monica Sundd , StaffScientist-VI, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi-110067; Tel 26703823; email monicasundd@nii.res.in t-VI	4 th March, 1972 (44 yrs 9 months 27 days)	Director, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi-110067;	Biochemistry/ Biophysics	Publications-8	The PI has worked on the fatty acid metabolism of <i>Leishmania major</i> , in which she has characterized the acyl carrier protein of <i>L. major</i> and its 4'-Phosphopantetheine transferase and studied the interaction of the two proteins using biochemical techniques and NMR is one appreciable work. This is the first report on the fatty acid pathway of <i>Leishmania</i> . The other project, in which she has characterized a novel hydrogen bond on the surface of ubiquitin, that gives rise to slow motions is	Nil	Understanding the lipoic acid synthesis pathway in <i>Leishmania Major</i> .	Please click

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						also worth mentioning. These slow motions were detected more than 30 years back in ubiquitin, but what gave rise to them remained unclear. Her publication in JMB 2011, showed that a side chain to backbone hydrogen bond gives rise to those motions, and has been cited by more than 23 different papers.			
24	Dr. Deepti Jain, Assistant Professor ,Transcription Régulation Lab, Régional Centre for Biotechnology, NCR Biotech Science Cluster, 3rd Milestone, faridabad-10021.Phone :0129-2848839,Email :deep ti@rcb.res.inFax :0129-2848803	11 th January, 1973 (43years)	Pro. Sudhanshu Vrati, Executive Director Regional Centre for Biotechnology ,an institution of education, traing and research., United Nation Educational, Scientific and Cultural Organization,Cluster, 3rd Milestone, faridabad-	Structural Biology (Macromolecular Crystallography)	Publication-10 Reviews-2 Patents-Nil	The nominee Research contributions have shed light on basic questions regarding geneexpression through structural studies on model activators, repressors and antiactivators. She has established that the trascription repressors utilize diverse structural strategies in order to bind to dissimilar DNA sequesnces to achievedifferential geneexpression at different promoters. In addition her work showed the repressrors exhibit plasticity while binding to DNA and this ability is important for appearance of new	None	Transcription regulation of flagellar gene network in Pseudomonas aeruginosa	Please click

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						regulatory circuits through evolution. Her work on antiactivator of transcription has highlighted a novel mechanism of to fine tune the transcription levels of the activator.			
25	Dr Ritu Kulshreshtha, Assistant Professor, Block-I Room-134, Department of Biochemical Engineering & Biotechnology,IIT ,New Delhi. Mob. 09953282623 Email driritukulshreshtha@gmail.com , ritu@dbeb.iitd.ac.in	9 th July, 1975 (41years, 5months and 22days)	Dr Chitra Sarkar, Professor ,Department of Pathology, AIIMS, New Delhi	Biomedical (Cancer Molecular Biology)	Publication-10 Book-6 Patents-Nil	Her work added a novel aspect to hypoxic-tumor-biology by demonstrating that miRNAs act as critical mediators of cellular stress responses. This has led to the identification of specific stress-regulated miRNAs with crucial roles in cancer pathogenesis. Her findings will aid in developing miRNA-based novel therapeutics to contain cancer progression besides providing a mechanistic bases for their actions.	She has contributed towards development of nanoparticles for siRNA and miRNA delivery. The patents for the same will be soon filed. A patent on use of combination therapy for breast cancer treatment will also be filed.	Elucidating the interplay of miRNAs and RNA binding protein under hypoxic stress	Please click
26	Dr. Jyoti S. Kumar, Scientist –D, Defence R&D Establishment, Jhashi Road, Gwalior(MP) Ph. No.0751- 2390293/2341148 Email :Jyotishukla2 @yahoo.co.in	4 th September, 1974 (42years)	Dr. Lokendra Singh, Director, Defence R&D Establishment	Immunologica 1 Diagnostics (ELISA,ICT etc)Molecular Diagnostics, (RTPCR,Multi plexPCR& RT-LAMP assay etc)	Publication-11 Review Article- 01 Book Chapetrs- 2 Patent- International-1 National-5	1. Development Of RTLAMP based multibiothreat viral agent detection system(BIOVIR MULTI-LAMP- SECK) for simultaneous detection and identification of small pox,Ebola, CCHF and KFD	Product /Technology transfer (TOT) -5 1. Transfer of technology of swine flu(H1N1) RTLAMP to M/s Big tec. Bangalore and	Novel Therapeutic strategies for effective medical counter measures against West Nile virus	Please click

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				Therapeutics(SiRNA & Vaccine)		<p>viruses</p> <p>2.development of monoclonal antibodybased antigen detection assay of Ebola virus</p> <p>3. Molecular Detection and characterization of novel swine flu virus</p> <p>4. Development of indigenous simple rapid and cost effective H1N1 RTLAMP kit</p> <p>5. Recombinant protein and monoclonal antibody based IgM and antigen ELISA for early and confirmatory diagnosis of chikungunya and west Nile virus</p> <p>6. Assessment of immunogenic potential and protective efficacy of recombinant subunit of west Nile virus</p> <p>7.Development of recombinantprotein based IgM and sandwich ELISA for early detection and confirmatory diagnosis of Japanese encephalitis virus.</p> <p>8. Standaradization of flow through assay for antibody detection chikungunya virus.</p>	<p>M/s RAS life science, Hyderabad</p> <p>Successful translation of swine flu RTLAMP (NULAMP H1N1 kit from RAS life sciences,Hyderabad).</p> <p>detection technology from laboratory to industry for commercialization with ICMR recommendation and regulatory clearance from DCGI.</p> <p>2. Transfer of technology of Chikungunya RTLAMP to M/s Biotron healthcare, Mumbai.</p> <p>3. Transfer of technology of recombinant protein and monoclonal antibody based ELISA technologies to M/s Qualpro diagnostic(Tulip groups of companies, Goa</p>	

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							<p>i) Chikungunya Igm ELISA</p> <p>ii) Chikungunya antigen ELISA</p> <p>iii) Japanese encephalitis IgM ELISA</p>		
27	Dr. Piya Paul Mudgal, Assistant Professor, Department of Virus Research, Manipal University., Manipal-576104, Udupi, Karnataka. Tel.No.820-2922663,Mob-8197171682,Fax-820-2922718,Email-piya.mudgal@manipal.edu	10 th March,1983 (33years)	Vice Chancellor, Manipal Univ.,Manipal-576104,Karnataka,	Pharmacology	Publication-10 Books reviews-01 Reviews Article-05 Patents- Applied for-021	An experience of working with herbal plants and phytochemicals coupled with her existing proficiency in pharmaceutical sciences renders the nominee capable of carrying out research in antiviral drug development. The nominee a few translational research projects towards developing a screening platform for antiviral entities from synthetic/herbal sources.	Nil	Translational research exploring antiviral potential of selected phenolic phytochemicals-an <i>in vitro</i> and <i>in silico</i> approach.	Please click
28	Dr. Sharmistha Banerjee, Associate Professor, Department of Biochemistry School of Life Sciences, University of Hyderabad, Tel- 040-23134573 Email- sbsl@uohyd.ac.in , sbanerjee.uohyd@gm	7 th January, 1973 (43 yrs 11 months & 24 days)	Dean, School of Life Sciences, University of Hyderabad, Hyderabad And Director, NCCS,Pune	Molecular Pathogenesis and immunology of HIV, <i>Mycobacterium tuberculosis</i> (<i>M.tb</i>) and <i>M.tb-HIV</i> co-infection.	Publication-10 Review/Books-6 Patents-01	Recommendation is based on her contributions in providing new insights in to HIV-Tb co-infection biology, identifying mycobacterial factors supporting HIV propagation and development of field compliant co-infection	The mycobacterial protein Zmpl as potential biomarker for extra-pulmonary TB cases (Provisional Patent: IP32034) and is further validating the same in a larger cohort with specific antigenic epitopes of Zmpl to develop	Identification and characterization of mycobacterial factors supporting HIV propagation during HIV mycobacterium co-infection.	Please click

S. No	Name & Address of the Nominee	Date of Birth/Age as on 31.12.2016	Name & Address of the Nominator	Field of Specialization	No. of publications/ patents/books	Summary of most significant work on which nomination is made	Technologies Developed & Status of Commercialization	Title of the project proposal for Career Development	
	ail.com					model for screening inhibitors/drugs, beside providing proof-of-concept for Zmpl as a potential extra- pulmonary-TB-biomarker, identifying new chiral anti-HIV molecules and HIV Rev-human Staufen-2 complex as potential anti-HIV target.	it into a highly sensitive and specific EPTB diagnostic marker. Two anti-HIV molecules identified by her in preliminary cell culture-based screen which reduced HIV titers comparable to the known antiretroviral drug azidothymidine (AZT) are being explored as lead molecules for drug resistant HIV strain. New drug-targets for TB and HIV , as mentioned above, are being further validated.		
29	Dr. K. Pandima Devi, Associate Professor, Department of Biotechnology, Alagappa University, Science Campus, Karaikudi- 630 0063, Tamil Nadu Tel- 04565 225215 Mob- 9790358700 Email- devikasi@yahoo.com	11 th April, 1973 (43 yrs 8 months)	Registrar Alagappa University, Science Campus, Karaikudi- 6300063	Pharmaceutica l Biotechnology	Publications-10 Review Article-17 Chapters- 8 Patents-Nil	With the prime focus of identifying pharmacologically active natural sources against neurological disorders , the nominee has screened several seaweeds and plants for their anti-AD efficacy. This has lead to the identification of novel bioactive compounds like catechin, phytol, - bisabolol and vitexin with multi potent actions. The research work has paved way for the development of molecules with	Nil	Elucidation of the pleiotropic effects of ascorbyl dipalmitate (ADP) and nano encapsulated ADP on the pathology of A 25-35 induced neurotoxicity: An <i>in vitro</i> and <i>in vivo</i> study.	Please click

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						therapeutic intervention against AD.			
30	Dr. Chadipiralla Kiranmai, Assistant Professor, Department of Biotechnology, Vikrama Simhapuri University, Nellore-524 003- Tel- 9494394522 Email- cdpkiranmai@gmail.com	23 rd July 1979 (37 yrs)	Prof V. Veeraiah Vice Chancellor Vikrama Simhapuri University Nellore- 524 003-	Biotechnology	Publications-10 Book/review-6 Patents-nil	Published more than 20 papers in referred high quality national and international journals with high impact factor and received more than 270 citations. The highlights of our research includes the demonstration of the therapeutic potential of Retinoic acid to repair the congenital cleft palate bone defects in children by using human dental stem cells. I have been sanctioned two projects from DST SERB for a period of three years.	Nil	<i>In vitro</i> Conservation, Essential oil studies and antioxidase activity of Boucerosia procumbers (Gravelly and Mayur): an Endemic Red Listed Medicinal Plant from TamilNadu.	Please click
31	Dr. Mugdha Gadgil, Senior Scientist, Chemical Engineering and Process Developmental Division, CSIR- National Chemical Laboratory Pune- 411008 Tel- 020 – 2590-2433 Email- mc.gadgil@ncl.res.in	5 th April, 1978 (38 yrs 8 months)	Prof. Ashwini Kumar Nangia Director, CSIR- National Chemical Laboratory Pune- 411008	Biochemical Engineering	Publications-10 Book/review-03 Patents-02	The development of low-cost hydrogel based solutions to enable in situ fed batch cultures with pH management in shake flasks. She has contributed to understanding the effect of Mn ²⁺ on glycosylation , notably its effect of increasing undesirable high mannose glycans when glucose is limiting.	A patent has been filed for in situ pH a management using base release from hydrogels. This has not yet been commercialized.		Please click

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32	Dr. Nishima, Assistant Professor, Department of Applied Sciences, University Institute of Engineering & Technology, Punjab University, Chandigarh Tel- 9464258583 Email- nishima.wangoo@gmail.com , nishima@puc.ac.in	1 st August, 1980 (36 yrs & 5 months)	Vice Chancellor Punjab University, Chandigarh	Nanosciences and Nanotechnology for environmental applications.	Publications-10 Book-1 review-1 Patents-Nil	The most important contribution of the nominee is the design and development of a low cost biosensor for the sensitive detection of organophosphate pesticides in food and water samples using a simple colorimetric based methodology based on gold nanoparticles.	Developed methodologies for the simple and effective detection of pesticides. It is expected that soon she will transfer the technologies developed to good industries.	Highly sensitive biosensing of toxic metal ions using nanoparticle based probes.	Please click
33	Dr. Riffat John, Assistant Professor, Department of Botany, University of Kashmir, Srinagar-190006 Email- riffat_iit@yahoo.com riffatminhaj@kashmiruniversity.ac.in	13 th April, 1976 (40 yrs)	Vice Chancellor University of Kashmir, Srinagar-190006	Plant Molecular Biology	Publications-14 Book Chapters-02 Patents- Nil	1. Developing stress tolerant tobacco by over expression of Topoisomerase I and Topoisomerase II at ICGB (New Delhi) and Department of Genetics, south Campus, New Delhi. 2. Dr. Riffat And her research group at University of Kashmir successfully cloned both genomic and cDNA clones of a protein homologous to Arabidopsis Kin1 family from several varieties of local cold tolerant plant. B. oleracea.	Nil	Deciphering the Role of Symbiotic Association Between Hippophae sps. And Arbuscular Mycorrhizae Fungus (AMF) by proteomic Approach"	Please click

