



**INSTITUTE OF ADVANCED RESEARCH  
GANDHINAGAR**  
*The University For Innovation*

Koba Institutional Area, Gandhinagar - 382426, Gujarat - India.  
Contact: 079-30514100/163 | E-mail: [contact@iar.ac.in](mailto:contact@iar.ac.in)

[www.iar.ac.in](http://www.iar.ac.in)



**INSTITUTE OF ADVANCED RESEARCH  
GANDHINAGAR**  
*The University For Innovation*



27th FEBRUARY, 2019

[www.iar.ac.in](http://www.iar.ac.in)

**Governor's Message**

Governorshri O. P. Kohli

O. P. Kohli  
Governor of Gujarat



Raj Bhavan  
Gandhinagar. - 382 020.  
16 FEB 2019

**MESSAGE**

I am very glad to know that the Institute of Advanced Research (IAR), Gandhinagar will be hosting its 2<sup>nd</sup> Convocation Ceremony on 27<sup>th</sup> February, 2019.

The Institute of Advanced Research is an innovative modern university which offers professionally focused under-graduation, postgraduate and research degree programs. I am sure, the students passing out from this university will resolve to dedicate their knowledge for the betterment of our society and the country and shine out the name of this university.

I convey my best wishes to all the students for their future progress.

*O. P. Kohli*  
(O. P. Kohli)

**Chief Minister's Message**

Honorable Chief Minister Shree Vijaybhai Rupani



Snehi Shree Bhamidimarriji,  
Saprem Namaskar.

I am in receipt of your letter regarding the ensuing 2<sup>nd</sup> Convocation Ceremony of the Institute of Advanced Research, Gandhinagar and a copy of the Annual Report 2017/18. Thank you.

Today, India is considered to be the land of opportunity for those who have talent, potential and innovation. The youth brigade of contemporary time has to focus on Research and Development of ideas. This provides them with ample opportunities and the sky is open for them to open their wings of aspiration and soar into the limitless sky.

It is heartening to know that the Institute of Advanced Research, Gandhinagar is organizing its 2<sup>nd</sup> Convocation Ceremony on 27<sup>th</sup> February 2019 at Gandhinagar. I extend my heartiest best wishes to all the Graduating Bachelors and Masters for a bright future ahead and sending my best wishes to the potential researchers who are going to join the Institute for the coming years.

*Vijay Rupani*  
(Vijay Rupani)

To,  
Prof. Rao Bhamidimarriji, President,  
Institute of Advanced Research, Gandhinagar,  
Koba Institutional Area, Gandhinagar - 382426  
Email : contact@iar.ac.in

**Education Minister's Message****BHUPENDRASINH CHUDASAMA**

No.Edu(P&S),H&T,L&J,L&P./2019  
 Minister,  
 Education(Primary, Secondary and Adult),  
 Higher and Technical Education,  
 Law and Justice,  
 Legislative & Parliamentary Affairs,  
 Salt Industry, Cow-Breeding and Civil Aviation  
 Government of Gujarat  
 Swarnim Sankul-1, 2<sup>nd</sup> Floor,  
 Sachivalaya, Gandhinagar-382 010

Date: 18/ 2 / 2019

**Message**

I am delighted to know that The Institute of Advanced Research Gandhinagar is organising its Second Convocation ceremony of the university on 27<sup>th</sup> February 2019

It is heartening to know that the University has its vision to provide an excellent education to the students through research and innovation so as to give brilliant researchers, academicians, leaders and entrepreneurs to the nation. To the young minds of graduating students of Institute of Advanced Research I would like to share that you are not going to get very far in life based on what you already know, be a lifelong learner and empower yourself with different skills to face future challenges. Do not be afraid of working smart and hard. As you leave the portals of this institution, be assured that the intellectual, social and technical skills you have acquired from your faculty member of IAR would stand you in good stead.

Live the dream, follow your heart and make a better world. I wish each one of you good luck and success in all your future endeavours.

**(Bhupendrasinh Chudasama)**

To,  
**Professor Rao Bhamidimarri**  
 President,  
 Institute of Advanced Research,  
 Gandhinagar (Gujarat)

Ph (G) : 2322501116 to 232501119, 232316070, 232433889 Fax: 232501120  
 Residence: Bungalow No. 10, Minister's Flakshya Sekt-20,  
 Ph (R) 079 23250650, 23250596, 23250603, 23222617  
 E-mail : min-education@gujarat.gov.in

**President's Message**

Professor Rao Bhamidimarri

I would like to begin by congratulating every one of you receiving your award today. By graduating, each of you has come to personify the hard work, commitment and ambition that is the hallmark of an IAR graduate.

Graduation is a very special occasion. It is a time to celebrate the success of all graduates and the culmination of your dedication and commitment. For some of you, this graduation will mark the end of your formal study at our University and the beginning of the application of your new knowledge and skills, as you start employment in the area of your specialisation. For others, this graduation is a step towards further academic achievement. As a graduate of the Institute of Advanced Research, you are well equipped to succeed in your chosen career path or further study.

In graduating, you become part of the alumni of the University. As a member of our growing family of alumni with national and international networks, you have an opportunity to develop new professional links and partnerships. As one of our alumni, you will always be welcome to visit your University. I hope that you will retain a strong interest in the continued development of our University and our contribution to the society and the economy.

Today we celebrate your achievement. We also take the opportunity to acknowledge those who supported you, including your family and friends, throughout your study at the University.

On behalf of the University and staff, I congratulate you on your achievement once again and I wish you every success in your careers.

**Professor Rao Bhamidimarri**  
 President

### About the Chief Guest



Professor Ben Tucker

Professor Ben Tucker is the Founding Partner of Minerva, a London based, Executive Search firm with international reach. He was formerly Partner in the Education and Social Enterprise Practice at Heidrick and Struggles, with a remit for Europe, Middle East and Africa. He is one of the most respected Executive Search leaders in the UK and internationally, and has facilitated the appointment of a number of Vice-Chancellors and chairs of Governing Boards He has degrees from the University of Oxford and from the University of London.

He actively contributes to leadership development programs in the UK, supporting senior management teams with development strategies. He also has a strong interest in governance of higher education institutions.

He is a leading member of Aspire, a UK-wide mentoring scheme for mid-career professionals. Outside of work he is leader of a Garage Rock Band and regularly produces recordings.

### Institute of Advanced Research, Gandhinagar, “The University for Innovation” at a Glance



Institute of Advanced Research (IAR) is an innovative modern university, which offers professionally focused undergraduate, postgraduate and research degree programs. IAR was established in 2006 with the support of the then President of India Dr A P J Abdul Kalam, who inaugurated the Institute, and the Prime Minister, Shri Narendra Modi, who was the then the Chief Minister of Gujarat. The University is financially supported by the Puri Foundation for Education in India, established by Professor Nathu Ram Puri, who is a leading industrialist in the UK with manufacturing and other businesses world-wide. The University is a not-for-profit institution and its sole purpose is to promote world-leading education, research and innovation for young people in Gujarat and nationally. The campus is situated in a picturesque location on the banks of Sabarmati river in Gandhinagar, Gujarat.

The Institute is well respected for its high quality of research nationally and internationally with the research being published in top international journals.

IAR was awarded the University status under the Gujarat Private Universities Amendment Act, 2011.

The University commenced offering educational programs in 2014 and currently has around 500 students in several undergraduate, masters and research degree programs.

The university aspires to be the leading university in the private higher education sector nationally with strong international presence with a focus is quality rather than scale.

**Achievements - Ongoing Research Grant**

Sr.No.	Sanctioned Year	Sanctioned Amount (Lakh)	Funding Agency	Title of the Project	PI/CO-PI
1.	2018	30.00	SERB/DST, New Delhi	Involvement of chloroplasts in oxidative stress induced Programmed Cell Death (PCD): characterization of cytochrome f release from chloroplast and its interacting partners involved in cell death process.	Dr. Budhi Sagar Tiwari(PI)
2.	2018	44.42	SERB/DST, New Delhi	"Study of the role of Appl & Tau gene during mitochondrial axonal transport in Drosophila model of Alzheimer's disease"	Dr. Anand K. Tiwari(PI)
3.	2016	2.10	GUJCOST Gujarat DST	Identification of the neuroprotective potential of Spirulina (Arthrospira platensis) using Alzheimer's disease model in Drosophila melanogaster	Dr. Anand K. Tiwari(PI)
4.	2018	36.38	SERB/DST, New Delhi	Evaluation of immunogenicity and protective efficacy of bivalent vaccine candidate against Shigella and Salmonella using food grade bacteria Lactococcus lactis	Dr. Priti Desai (PI); Dr. Vainav Patel(NIRRH, Mumbai-CO-PI)
5.	2017	32.00	SERB/DST, New Delhi	Development of nanodevice for early detection of cardiovascular disease	Dr. Alok Pandya(PI)
6.	2017	41.00	SERB/DST, New Delhi	Design and development of nanodevice for rapid identification of body fluids	Dr. Ritesh Shukla (PI); Dr. Alok Pandya(CO-PI)
7.	2017	44.00 (Total 67 Lakh)	SERB/DST, New Delhi	A novel nanoparticle based bioassay for sensitive detection of cancer specific proteases.	Dr. Nidhi Gour (PI); Dr. Manoj Pandya(CO-PI)
8.	2017	22.00	GSBTM, Gujarat	Unravelling the Molecular Mechanism of Berberine against Immunosuppressive Tumor-microenvironment	Dr. Reena Rajput (PI); Dr. Nivaskar (CO-PI)
9.	2017	15.00	DST-SERB, New Delhi	A Bayesian approach for CBC parameter reconstruction and tests of General Relativity using amplitude-corrected post-Newtonian waveforms	Dr. Anand Sengupta (PI); Dr. Gurudatt Gaur(CO-PI)
10.	2017	30.00	DAE-BRNS	Development of plasma rotating electrode process to obtain high purity spherical metallic powders	Dr. Ganesh Gaur (PI); Dr. Gurudatt Gaur (Co-PI)

Sr.No.	Sanctioned Year	Sanctioned Amount (Lakh)	Funding Agency	Title of the Project	PI/CO-PI
11.	2015	25.00	DBT, New Delhi	Study the ubiquitination of FADD and cFLIP and their response on cell death, survival and inflammatory signaling in cancer	Dr. Chandramani Pathak (PI)
12.	2017	37.33	SERB, New Delhi	Deciphering the role of FADD and HMGB1 in subset to the regulation of anti-cancer drug resistance	Dr. Chandramani Pathak (PI)
13.	2016	28.49	SERB, New Delhi	Design and Synthesis of Squalamine/Squalamine-like Molecules as Antimicrobial Agents	Dr. Satyendra Mishra
14.	2016	2.50	GUJCOST	Synthesis of Curcumin/curcumin Analogs- Piperine and Dendrimer Conjugates and Evaluation of Their Biological Activity	Dr. Satyendra Mishra
15.	2016	24.21	SERB, New Delhi	Investigating the Role of Peptide Chiral Ionic Liquids (PCILs) in Synthesis and Stability of Peptides/drugs	Dr. Roli Mishra
	<b>Total</b>	<b>414.43</b>			

**Publications: 2017-19****2019 (11)**

1. Khambhati, K., Bhattacharjee, B., Singh, V, (2019). Current progress in CRISPR-based diagnostic platforms. *Journal of Cellular Biochemistry* 120(3), 2721-2725.
2. Pathak C., Vaidya F.U., Pandey S. M. (2019). Mechanism for Development of Nanobased Drug Delivery System. In Mohapatra et al. (Eds) *Applications of Targeted Nano Drugs and Delivery Systems Nanoscience and Nanotechnology in Drug Delivery: A volume in Micro and Nano Technologies*. DOI <https://doi.org/10.1016/C2017-0-00274-4>; ISBN 978-0-12-814029-1; Imprint Elsevier.
3. Fofie, C.K., Katekhaye, S., Borse, S., Sharma, V., Nivsarkar, M., Nguelefack-Mbuyo, EP., Kamanyi, A., Singh, V., Nguelefack, T.B. (2019). Antidiabetic properties of aqueous and methanol extracts from the trunk bark of *Ceiba pentandra* in type 2 diabetic rat. *Journal of Cellular Biochemistry* DOI: 10.1002/jcb.28437 (accepted).
4. Pinkesh G Sutariya, Heni Soni, Sahaj A Gandhi, Alok Pandya. (2019). Single-step fluorescence recognition of As<sup>3+</sup>, Nd<sup>3+</sup> and Br<sup>-</sup> using pyrene-linked calix[4]arene: application to real samples, computational modelling and paper-based device, *New Journal of Chemistry*. 43, 737-747.
5. Pinkesh G Sutariya, Heni Soni, Sahaj A Gandhi, Alok Pandya. (2019). Novel luminescent paper based calix [4] arene chelation enhanced fluorescence-photoinduced electron transfer probe for Mn<sup>2+</sup>, Cr<sup>3+</sup> and F<sup>-</sup>, *Journal of Luminescence*. 208, 6-17.
6. Mishra S, Patel S. (2019). Design, Synthesis, and Anti-bacterial Activity of Novel Deoxycholic Acid-Amino Alcohol Conjugates, *Med Chem*. Feb 6. doi:10.2174/1573406415666190206231002.
7. Sanghvi, H.; Mishra, S. (2019). Structure-Activity Relationship and Antimicrobial Evaluation of N-Phenylpyrazole Curcumin Derivatives, 15, 10.2174/1573407215666190124115010.
8. Shah D., Sahni M., Sahni R. (2019). Comparison of Newton-Raphson and Kang's Method with newly developed Fuzzified He's Iterative method for solving nonlinear equations of one variable, *WSEAS Transactions on Mathematics*, vol. 18, pp. 6-13.
9. Sahni M., Sahni R., Verma R., Mandaliya A., Shah D. (2019), Second Order Cauchy Euler Equation and Its Application for Finding Radial Displacement of a Solid Disk using Generalized Trapezoidal Intuitionistic Fuzzy Number, *WSEAS Transactions on Mathematics*, vol. 18, pp. 37-45.
10. Sahni M., Mandaliya A., Sahni R. (2019), Ranking of Teachers Based on Feedback from the Students using Multiple Subjects, *Springer Book Chapter (Accepted for Publication)*.
11. Sahni M., Sahni R., Analysis of Orthotropic Variable Thickness Rotating Disc, *Lecture Notes in Mechanical Engineering, Springer Proceeding (Accepted for Publication)*.

**Publications: 2017-19****2018 (34)**

1. Vinita Mishra and Chandramani Pathak (2018). Human Toll-Like Receptor 4 (hTLR4): Structural and functional dynamics in cancer. *International Journal of Biological Macromolecules*. doi.org/10.1016/j.ijbiomac.2018.10.142.
2. Panchal K, Kumar A, Tiwari AK (2018). Heat Shock Protein 70 and Molecular Confession during Neurodegeneration. *HSP70 Biology & Medicine Springer Nature* 14: 3-35.
3. Panchal K, & Tiwari AK, (2018). Mitochondrial Dynamics, a Key Executioner in Neurodegenerative Diseases. *Mitochondrion*. doi: 10.1016/j.mito.2018.11.002.
4. Kumar A, Tiwari AK (2018). Molecular Chaperone Hsp70 and its Constitutively Active Form Hsc70 Play an Indispensable Role During Eye Development of *Drosophila melanogaster*. *Mol Neurobiol*. 55:4345-4361. doi: 10.1007/s12035-017-0650-z.
5. Shanaya Patel, Bhargav Waghela, Kanisha Shah, Foram Vaidya, Sheefa Mirza, Saumya Patel, Chandramani Pathak & Rakesh Rawal (2018) Silibinin, A Natural Blend In Polytherapy Formulation For Targeting Cd44v6 Expressing Colon Cancer Stem Cells. *Nature Scientific Reports*, DOI:10.1038/s41598-018-35069-0
6. Foram U. Vaidya, Rakesh Sharma, Sofiya Shaikh, Debes Ray, Vinod K. Aswal and Chandramani Pathak (2018) Pluronic micelles encapsulated Curcumin manifests apoptotic cell death and inhibits pro-inflammatory cytokines in Human breast adenocarcinoma cells. *Cancer Reports*, e1133. <https://doi.org/10.1002/cnr.2.1133>
7. Vinita Mishra and Chandramani Pathak (2018) Structural insights into pharmacophore assisted in silico identification of protein-protein interaction inhibitors for inhibition of human Toll-like receptor 4 – myeloid differentiation factor-2 (hTLR4–MD-2) complex. *Journal of Biomolecular Structure and Dynamics*. DOI: 10.1080/07391102.2018.1474804
8. Miral Lunagariya, , Khyati Thakor; Bhargav Waghela, Chandramani Pathak, Mohan Patel (2018) Design, synthesis, pharmacological evaluation and DNA interaction studies of binuclear Pt(II) complexes with pyrazolo[1,5-a]pyrimidine scaffold". *Applied Organometallic Chemistry*. DOI: 10.1002/aoc.4222.
9. Miral Lunagariya, , Khyati Thakor; Reena R Verma, Bhargav Waghela, Chandramani Pathak, Mohan Patel (2018) Synthesis, characterization and biological application of 5-quinoline 1,3,5-trisubstituted pyrazole based platinum(II) complexes. *Medicinal Chemistry Communication* DOI 10.1039/C7MD00472A
10. Gour N, Kanth P C, Koshti B, Kshtriya V, Shah D, Patel S, Agrawal-Rajput R, Pandey MK. (2018). Amyloid-like Structures Formed by Single Amino Acid Self-Assemblies of Cysteine and Methionine. *ACS Chem Neurosci*. DOI: 10.1021/acscchemneuro.8b00310
11. Patel D, Gaikwad S, Challagundla N, Nivsarkar M, Agrawal-Rajput R. (2018). Spleen tyrosine kinase inhibition ameliorates airway inflammation through modulation of NLRP3 inflammasome and Th17/Treg axis. *Int Immunopharmacol*. Jan;54:375-384.
12. Digvijay Pandya and Surbhi Bhatt. (2018). A Comparative Study of Jumba Lahiri and Chitra

**Publications: 2017-19**

- Benerjee Indo-English Writings with Special Reference to Diaspora, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, volume 5, Issue 3, July – Sept, 2018.
13. Snehrishn A. Chaubey, Jyoti S. Mishra, and Roli Mishra. (2018). "Efficient Approach for the Tritylation of Alcohols Using Recyclable Lewis Acid-Based Ionic Liquid (EMIM•AlCl<sub>4</sub>)" ACS Omega 3, 9607–9612.
  14. Anita Kongor, Manthan Panchal, Mohd. Athar, Prakash C. Jha, Devendrasinh jhala, Gaurav Sindhav, Naumita shah, Vinod K. Jain. (2018). "Selective fluorescence sensing of Cu (II) ions using calix [4] pyrrole fabricated Ag nanoparticles: A spectroscopic and computational approach". Journal of Molecular Liquids, Volume 269, 467-475.
  15. Bhruhu Yagnik, Drashya Sharma, Harish Padh and Priti Desai. (2018). In vivo delivery of pPERDBY to BALB/c mice by LacVax® DNA-I and comparison of elicited immune response with conventional immunization methods. Gene Therapy.
  16. Krupa Kansara, Pal Patel, Ritesh K Shukla, Alok Pandya, Rishi Shanker, Ashutosh Kumar and Alok Dhawan (2018). Synthesis of biocompatible iron oxide nanoparticles as a drug delivery vehicle, International Journal of Nanomedicine. 13, 79-82.
  17. Darshini Shah, Reema Savaliya, Pal Patel, Krupa Kansara, Alok Pandya, Alok Dhawan, and Sanjay Singh. (2018). Curcumin Ag nanoconjugates for improved therapeutic effects in cancer, International Journal of Nanomedicine. 13:75-77.
  18. Alok Pandya, Harsh Dave, Neha Bhandari, Bhavya Mod, Ritesh Shukla (2018). Multifunctional silver cellulose nanocomposite as a promising plasmonic sensing platform, Journal of Nanoscience and Nanotechnology. 18, 8, 5461-5469.
  19. Jena, Sarat Kumar. (2018). "Representation of Colonial Modernity in Ethnographic Novels in Indian Literature: A Critique of Tribal Identities in Colonial and Post-Colonial Tribal Narratives" in Kalakalpa, Volume III, No. 1, New Delhi: Indira Gandhi National Center for Arts. Print. ISSN 2456-82.
  20. Ansari Niha, PandyaAlok, SutariyaPinkesh, LodhaAnand. (2018). "Forensic Nanotechnology in Forensic Genetics", Peer Reviewed Journal of Forensic & Genetic Sciences, (In press).
  21. Patel P, Parmar K, Patel D, Das M. (2018). Inhibition of amyloid fibril formation of lysozyme by ascorbic acid and a probable mechanism of action. Int J Biol Macromol; 114:668-678.
  22. Patel, S., Panchasara, H., Braddick, D., Gohil, N., Singh, V. (2018). Synthetic small RNAs: Current status, challenges, and opportunities. Journal of Cellular Biochemistry 119, 9619–9639.
  23. Singh, V., Gohil, N., Remirez-García, R., Braddick, D., Fofié, C.K. (2018). Recent advances in CRISPR-Cas9 genome editing technology for biological and biomedical investigations. Journal of Cellular Biochemistry. 119, 81-94.
  24. Verma, J.P., Jaiswal, D.K., Krishna, R., Prakash, S., Yadav, J., Singh, V. (2018). Characterization and screening of Thermophilic Bacillus strains for developing plant growth promoting

**Publications: 2017-19**

- consortium from hot spring of Leh and Ladakh region of India. Frontiers in Microbiology 9, 1293.
25. Gohil, N., Ramírez-García, R., Panchasara, H., Patel, S., Bhattacharjee, G., Singh, V. (2018). Quorum sensing vs quorum quenching: A battle with no end in sight. Frontiers in Cellular & Infection Microbiology 8, 106.
  26. Singh, V., Gohil, N., Remirez-García, R. (2018). New insight into the control of peptic ulcer by targeting the histamine H<sub>2</sub> receptor. Journal of Cellular Biochemistry 119, 2003-2011.
  27. Panchasara, H., Patel, S., Gohil, N., Singh, V. (2018). "Biosynthetic pathway for production of renewable biofuels" chapter in Biofuels. Ed. V. Mittal, Central West Publishing, Australia ISBN: 978-1-925823-12-7. pp. 63-86.
  28. Pandey, V.C., Singh, V. (2018). "Exploring the potential and opportunities of recent tools for removal of hazardous materials from environments" chapter in Phytomanagement of polluted sites, eds VC Pandey and K Baudhd, Elsevier ISBN: 9780128139127. pp. 501-516.
  29. Ramírez-García, R., Gohil, N., Singh, V. (2018). "Recent advances, challenges and opportunities in bioremediation of hazardous materials" chapter in Phytomanagement of polluted sites, eds VC Pandey and K Baudhd, Elsevier ISBN: 9780128139127. pp. 615-568.
  30. Mishra S, Patel S, Halpani CG. Recent Updates in Curcumin Pyrazole and Isoxazole Derivatives: Synthesis and Biological Application. Chem Biodivers. 2018, Nov 20. doi: 10.1002/cbdv.201800366.
  31. Sahni M., Sahni R. (2018) Elastic-Plastic Analysis for a Functionally Graded Rotating Cylinder Under Variation in Young's Modulus. Applied Mathematics and Computational Intelligence. FIM 2015. Advances in Intelligent Systems and Computing, vol 730. Springer, Cham.
  32. Sahni M., Sahni R. (2018) Stress Analysis of a Pressurized Functionally Graded Rotating Discs with Variable Thickness and Poisson's Ratio. Applied Mathematics and Computational Intelligence. FIM 2015. Advances in Intelligent Systems and Computing, vol. 730. Springer, Cham.
  33. Kushwaha, M., Thakkar, H., & Tiwari, R. (2018, May-June). An Exploratory Study on Green Women Entrepreneurs in Jamalpur flower Market, Ahmedabad. Journal of social Science, (31) page;1-12.
  34. Thakkar, H., & Tiwari, R. (2018). Case Study on Successful Cooperative Experiments by Federation of Gujarat Industries. In L.Jain, & R.Patel (Ed.), Cooperative and Rural Development. Ahmedabad: Reliable Publishing House.016-1305-7.

**Publications: 2017-19****2017 (21)**

1. Manoj Kumar, Kishu Ranjan, Vijay Singh, Chandramani Pathak, Anju Pappachan, Desh Deepak Singh (2017) Hydrophilic Acylated Surface Protein A (HASPA) of *Leishmania donovani*: Expression, purification and Biophysico-Chemical Characterization. *Protein J.* DOI 10.1007/s10930-017-9726-x
2. Miral V. Lunagariya, Khyati P. Thakor, Bhargav N. Waghela, Foram U. Vaidya, Chadramani Pathak & Mohan N. Patel (2017) Design, synthesis, MTT assay, DNA interaction studies of platinum(II) complexes. *Journal of Biomolecular Structure & Dynamics* 4:1-77, DOI: 10.1080/07391102.2016.1268071.
3. Panchal K, Tiwari AK. (2017). *Drosophila melanogaster* "a potential model organism" for identification of pharmacological properties of plants/plant-derived components. *Biomedicine & Pharmacotherapy*. 89:1331-1345.
4. Kumar A, Christian P, Panchal K, Guruprasad BR, Tiwari AK. (2017). Supplementation of *Spirulina* (*Arthrospira platensis*) Improves Lifespan and Locomotor Activity in Paraquat-Sensitive DJ-1 $\beta$ 93 Flies, a Parkinson's Disease Model in *Drosophila melanogaster*. *Journal of Dietary Supplements*. 14:573-588. (Pubmed)
5. Gohil, N., Panchasara, H., Patel, S., Ramirez-Garcia, R., Singh, V. (2017). Recent advances in yeast metabolic engineering. *Frontiers in Bioengineering & Biotechnology* 5, 71.
6. Singh, V. (2017). Systems and synthetic biology. *Frontiers in Bioengineering & Biotechnology* 5, 50.
7. Palak Patel, Krupali Parmar, Vivek K. Vyas, Dhaval Patel, Mili Das, Combined in-silico approaches for the identification of novel inhibitors of human islet amyloid polypeptide (hIAPP) fibrillation, *Journal of Molecular Graphics and Modelling*, Volume 77, 2017, Pages 295-310.
8. Miral Lunagariya, Khyati Thakor; Reena R Verma, Bhargav Waghela, Chandramani Pathak, Mohan Patel (2017) Synthesis, characterization and biological application of 5-quinoline 1,3,5-trisubstituted pyrazole based platinum(II) complexes. 2017 Dec. *Medicinal Chemistry Communication* DOI 10.1039/C7MD00472A
9. Patel B, Patel D, Parmar K, Chauhan R, Singh DD, Pappachan A., L. donovani XPRT: Molecular characterization and evaluation of inhibitors. *Biochim Biophys Acta*. 2017 Dec 9;1866(3):426-441. doi: 10.1016/j.bbapap.2017.12.002.
10. Gaikwad S, Patel D, Agrawal-Rajput R. (2017). CD40 Negatively Regulates ATP-TLR4-Activated Inflammasome in Microglia. *Cell Mol Neurobiol*. 2017 Mar;37(2):351-359.
11. Kumar M, Ranjan K, Singh V, Pathak C, Pappachan A, Singh DD. (2017). Hydrophilic Acylated Surface Protein A (HASPA) of *Leishmania donovani*: Expression, Purification and Biophysico-Chemical Characterization. *Protein J.* 2017 Jun 21. doi: 10.1007/s10930-017-9726-x.
12. Kumar, A. & Tiwari, A.K. (2017). Molecular Chaperone Hsp70 and Its Constitutively Active

- Form Hsc70 Play an Indispensable Role During Eye Development of *Drosophila melanogaster* *Mol Neurobiol* doi:10.1007/s12035-017-0650-z.
13. Panchal K, Tiwari AK. (2017). *Drosophila melanogaster* "a potential model organism" for identification of pharmacological properties of plants/plant-derived components. *Biomed Pharmacother*. May;89:1331-1345.
  14. Varjani SJ. (2017) Microbial degradation of petroleum hydrocarbons. *Bioresour Technol*. Jan;223:277-286. Review.
  15. Kumar A, Christian PK, Panchal K, Guruprasad BR, Tiwari AK. (2017) Supplementation of *Spirulina* (*Arthrospira platensis*) Improves Lifespan and Locomotor Activity in Paraquat-Sensitive DJ-1 $\beta$ 93 Flies, a Parkinson's Disease Model in *Drosophila melanogaster*. *J Diet Suppl*. Sep 3;14(5):573-588.
  16. Ambastha V, Sopory, SK, Tiwari BS\*, Tripathy BC (2017). Photo-modulation of programmed cell death in rice leaves triggered by salinity. *Apoptosis*, ;22(1):41-56. doi: 10.1007/s10495-016-1305-7.
  17. Thagela P, Yadav RK, Mishra V, Dahuja A, Ahmad A, Singh PK, Tiwari BS, Abraham G. (2017) Salinity-induced inhibition of growth in the aquatic pteridophyte *Azolla microphylla* primarily involves inhibition of photosynthetic components and signaling molecules as revealed by proteome analysis. *Protoplasma* 254 (1), 109-124
  18. MK Tripathy, BS Tiwari, MK Reddy, R Deswal, SK Sopory (2017) Ectopic expression of PgRab7 in rice plants (*Oryza sativa* L.) results in differential tolerance at the vegetative and seed setting stage during salinity and drought stress. *Protoplasma* 254 (1), 109-124.
  19. Lunagariya MV, Thakor KP, Waghela BN, Vaidya FU, Pathak C, Patel MN. (2017) Design, synthesis, MTT assay, DNA interaction studies of platinum(II) complexes. *J Biomol Struct Dyn*. Jan 4:1-18.
  20. C. J. Kant and K. B. K. Mayya (2017) Simulation of change in position of Quantum Dot within the intermediate region of solar cell. *IJMSSC*, World Scientific
  21. GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral, B. P. Abbott et al. (G. Gaur as the part of LIGO Scientific Collaboration), *Physical Review Letters* 119, 161101 (2017).

**List of Students Recommended for Conferment  
of Undergraduate Degree**

Sr.No.	Registration Number	Full Name of Student	Course
1.	UIAR/10589	Lodha Dikshita Yogendrasinh	Biochemistry
2.	UIAR/10590	Badgha Payal Vivekanand	Biochemistry
3.	UIAR/10388	Moksh Atulbhai Patel	Biotechnology
4.	UIAR/10389	Harshil Harish Maniar	Biotechnology
5.	UIAR/10413	Patel Dhaval Sureshchandra	Biotechnology
6.	UIAR/10444	Kansara Uday Bipinkumar	Biotechnology
7.	UIAR/10455	Nishi Narendra Patel	Biotechnology
8.	UIAR/10467	Harshkumar Nileshbhai Vasoya	Biotechnology
9.	UIAR/10487	Md Kaushar Raza	Biotechnology
10.	UIAR/10537	Vyas Parin Vimalkumar	Biotechnology
11.	UIAR/10556	Doshi Richa Vishalkumar	Biotechnology
12.	UIAR/10568	Pooja D Puri	Biotechnology
13.	UIAR/10570	Ashwini Manojkumar Raval	Biotechnology
14.	UIAR/10587	Aashu	Biotechnology
15.	UIAR/10602	Pandya Dhvani Mehulkumar	Biotechnology
16.	UIAR/10605	Twinkle H. Patel	Biotechnology
17.	UIAR/10619	Pandya Sahilkumar Jayeshbhai	Biotechnology
18.	UIAR/10639	Dharmikkumar Kamleshbhai Patel	Biotechnology
19.	UIAR/10579	Patel Vasu Manojkumar	Chemistry
20.	UIAR/10631	Vala Partik Rameshbhai	Chemistry
21.	UIAR/10633	Harshil Prakash Darji	Chemistry
22.	UIAR/10573	Divyaba Jagatsinh Raol	Computer Sciences
23.	UIAR/10463	Darshini Vijaykumar Upadhyay	Microbiology
24.	UIAR/10474	Soni Krina Saurabhbhai	Microbiology
25.	UIAR/10604	Jinny Rana	Microbiology
26.	UIAR/10627	Rathod Kajalkumari Vishaji	Microbiology
27.	UIAR/10644	Sharma Rahul Jagdishprasad	Physics
28.	UIAR/10415	Vyas Dhaval Manojbhai	Physics

**List of Students Recommended for Conferment  
of Postgraduate Degree**

Sr.No.	Registration Number	Full Name of Student	Course
1.	UIAR/10693	Ms. Anjani Vijaykumar Prajapati	Biotechnology
2.	UIAR/10694	Ms. Trailoki Nipam Bhatt	Biotechnology
3.	UIAR/10698	Ms. Sapna Santosh Kumar	Biotechnology
4.	UIAR/10703	Ms. Priya Somnath Pawar	Biotechnology
5.	UIAR/10716	Mr. Khushal Nilesh Khambhati	Biotechnology
6.	UIAR/10718	Ms. Kaushambee Janardan Dave	Biotechnology
7.	UIAR/10719	Ms. Kavisha Vipulkumar Vora	Biotechnology
8.	UIAR/10723	Ms. Zeenali Sanjaybhai Panchal	Biotechnology
9.	UIAR/10725	Ms. Pooja Singh	Biotechnology
10.	UIAR/10743	Ms. Akriti D Agrawal	Biotechnology
11.	UIAR/10750	Ms. Aishwariya Pravinbhai Parmar	Biotechnology
12.	UIAR/10754	Ms. Foramben Hasmukhbhai Patel	Biotechnology
13.	UIAR/10780	Mr. Maruvada Sai Krishna	Plant Molecular Biology And Biotechnology
14.	UIAR/10781	Mr. Medala Vijay Krishna	Plant Molecular Biology And Biotechnology
15.	UIAR/10786	Ms. Nikki Pravinkumar Patel	Plant Molecular Biology And Biotechnology
16.	UIAR/10748	Mr. Parmar Kuldeep Kamleshbhai	Chemistry (Organic)
17.	UIAR/10749	Ms. Kanojiya Mittalben Sanjaykumar	Chemistry (Organic)
18.	UIAR/10764	Ms. Shaikh Sahindabanu Mohammadsajid	Chemistry (Organic)
19.	UIAR/10765	Ms. Gohil Sanskrutiben Devshibhai	Chemistry (Organic)
20.	UIAR/10766	Mr. Patel Maulik Pramukhbhai	Chemistry (Organic)

### Gold Medal Awardees

Gold Medal Awardees for Undergraduate Program	Gold Medal Awardees for Postgraduate Program	
School of Biological Sciences & Biotechnology	School of Biological Sciences & Biotechnology	Centre for Engineering & Enterprise
Ms. Doshi Richa Vishalkumar	Ms. Khushal Nilesh Khambhati	Ms. Shaikh Sahindabanu Mohammadsajid
UIAR/10556	UIAR/10716	UIAR/10764
Biotechnology	Biotechnology	Chemistry



### Testimonials

**Ms. Sahinda Shaikh** - UIAR/10764  
Centre of Engineering & Enterprise



Education makes a human a good human, so it is necessary to choose a person who is wealthy in knowledge as your teacher or guide. I'm lucky enough that I got such people in this institute. All the faculty of IAR has always supported us in our educational affairs as well as with our career doubts. At IAR I have participated in many extracurricular activities like seminars, Eureka Scientists talk. All of them have helped us to ameliorate our knowledge about many fields related to science and technology and the current researches. I feel this has benefited me personally to achieve my career goals with confidence. I have never heard of any other institutes that gives such exposure to their students. I thank my IAR, faculties for their support in all times and I feel humbled to be a part of IAR family.

**Mr. Khushal Nilesh Khambhati** - UIAR/10716  
School of Biological Sciences & Biotechnology



While pursuing my post graduate studies at IAR I have realise the importance of research in education and innovation. IAR has helped me to know the importance of novelty in science, beauty of failure in experiments, realizing my subject of interest and how to present our self in front of massive scientific community. In terms of academic and extracurricular activities, IAR had polished my existing knowledge and I am thankful to my guide Dr. Vijai Singh who helped me to gain few publications. Here at IAR I was able toes within me and am now moving a step ahead to achieve, my life goal: To be a professor.

**Ms. Richa Doshi** - UIAR/10556  
School of Biological Sciences & Biotechnology



IAR is the institute that has given me an exposure of participating in national and international conferences, workshops, experiential laboratory work, industry visit, scientist talk. As a biotechnology student, for us such exposure is very significant. At IAR students are given responsibility to plan and execute extracurricular activities, celebrations, sports event with the objective of overall all development. My 6 months dissertation work is the highlight of my three years undergraduate studies at IAR. The lab work with group members, support from faculty and their constant efforts to give us practical understanding along with theoretical class room studies immensely helped me to develop deeper understanding of my subject and have a clear imagination of my field.



**Members of Academic Council****UNIVERSITY ACADEMIC COUNCIL MEMBERS LIST 2019-2020**

The committee has been reconstituted with following members:

**Chairperson**

1. Prof. B.Rao, President, Institute of Advanced Research (IAR), Gandhinagar, Gujarat

**Member Secretary**

2. Dr. Chandramani Pathak, Dean, IAR, Gandhinagar, Gujarat

**Members**

3. Dr. Rajendra Takale, Registrar, IAR, Gandhinagar, Gujarat
4. Prof. Datta Madamwar, Professor & Dean, BRD School of Life Science, S.P. University Anand, Gujarat
5. Dr. Satish Modh, Director, Vivekanand Education Society Institute of Management, Mumbai, Maharashtra
6. Prof. JPN Mishra, Dean, Central University of Gujarat, Gandhinagar, Gujarat
7. Prof. Sachin Parikh, Gujarat Technological University, Gandhinagar
8. Mr. Digamber Joshi, General Manager, Meghmani Organics Limited, Ahmedabad
9. Mr. H.M Patel, Chairman, Gandhinagar Industrial Development Corporation, Gandhinagar, Gujarat.
10. Dr. Sateyendra Mishra, Controller of Examinations, IAR, Gandhinagar, Gujarat
11. Dr. Budhi Sagar Tiwari, Ph.D. Coordinator, IAR, Gandhinagar, Gujarat
12. Dr. Vijai Singh, Course Coordinator, SBS, IAR, Gandhinagar, Gujarat
13. Dr. Roli Mishra, Course Coordinator, CEE, IAR, Gandhinagar, Gujarat
14. Dr. Gurudatt Gaur, Course Coordinator, B.Tech, CEE, IAR, Gandhinagar, Gujarat
15. Dr. Radha Tiwari, Course Coordinator LBS & Student Affairs IAR, Gandhinagar, Gujarat
16. Finance and Account Officer, IAR, Gandhinagar, Gujarat

**Members of Research Advisory Committee (RAC)**

Sr.No.	Name	Address	Designation
1.	Dr. G.C. Mishra	NASI-Platinum Jubilee Chair Distinguished Scientist, National Center for Cell Sciences Ganeshkhind, Pune, Phone No: 91-20-25708283	Chairperson
2.	Prof. Rajendra Prasad	Director, Amity Inst. of Integrat. Sci. and Health, Amity Education Valley, Gurugam, Haryana-122413	Member
3.	Dr. Gopal.C. Kundu	Director (I/C), Scientist G National Center of Cell Sciences, Ganeshkhind, Pune	Member
4.	Dr. Rakesh Bhatnagar	Vice-Chancellor Banaras Hindu University, Varanasi - 221005,	Member
5.	Dr. Rajani Nadgauda	Professor (Emeritus), Institute of Advanced Research, Puri Foundation for Education in India, Koba Gandhinagar-382 426, Gujarat	Member
6.	Prof. Bhamidimarri Rao	President, Institute of Advanced Research, Puri Foundation for Education in India, Koba Gandhinagar-382 426	Member
7.	Mr. Ashwani Puri	Chief Functionary Institute of Advanced Research, Koba Gandhinagar-382 426, Gujarat	Member
8.	Dr. Rajaraman Ganesh	Professor Institute of Plasma Research, Bhat, Gandhinagar-382 428, Gujarat	Member
9.	Prof. Vinod Kumar	Head, Dept. Of Physics, Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat	Member
10.	Dr. Bishwajit Ganguly	Sr. Principal Scientist, CSMCRI, Bhavnagar - 364021, Gujarat	Member
11.	Dr. Kamala. Vasu	Assistant Director, B.V. Patel Pharm. Edu. And Research Development (PERD) Centre, Ahmedabad-380054	Member
12.	Prof. Bharati Pathak	Professor and Director SD School of Commerce, Gujarat Univ., Gujarat	Member
13.	Prof. Sarita Agrawal	Centre for Studies in Economics and Planning, School of Social Sciences, Central University of Gujarat, Gandhinagar	Member
14.	Dr. Reena A. Rajput	Associate Professor, Institute of Advanced Research, Koba, Gandhinagar-382 426 Gujarat	Coordinator and Member Secretary

**Student's View: What they say about us****1****KUNAL SHAH**

PhD Biochemistry, 2017  
(IIAR & The M.S. University of Baroda)

Post-Doctoral Fellow,  
Institute of Molecular Biology,  
Eugene USA, University of Oregon, USA.

I thoroughly enjoyed and appreciated my time at IIAR as a graduate student. The faculty and staff helped me and provided every available opportunity from day one to achieve my professional goals and develop interpersonal skills. It was always easy to approach a faculty member for advice. I appreciate the training and skillsets I received to become an independent researcher and scientist, which is helping me even today during my post-doctoral research work.

**2****KISHU RANJAN**

PhD Biochemistry, 2017  
(IIAR & The M.S. University of Baroda)

Post-Doctoral Fellow,  
Yale University, New Haven,  
USA.

I did my doctoral research at Department of Cell Biology, IIAR, Gandhinagar. It was a great journey that taught me some of the important lessons that I will always cherish in my life. At present I am working at Yale University as a Postdoctoral Researcher. My current research interest is to explore the consequences of gene polymorphism in human diseases. I am sure the discipline and dedication that I learnt at IIAR will help me in future endeavors.

**Student's View: What they say about us****3****VINOTH KUMAR**

PhD Biochemistry, 2017  
(IIAR & The M.S. University of Baroda)

Post-Doctoral Fellow,  
Institute of Life Sciences,  
Bhuvneshwar, Orissa.

The institute has provided me a good atmosphere to do a quality research. The good infrastructure and lab facility have supported me to achieve the goals. My entire Ph.D. tenure in IIAR had been a memorable and remarkable experience.

**4****ARUN KUMAR SINGH**

PhD Biotechnology, 2015  
(IIAR & Pune University)

Research Scientist,  
Mankind Research Center,  
Gurgaon.

My sincere gratitude to IIAR for providing world-class infrastructure and support to pursue my PhD. IIAR foundation has amazing galaxy of Scientist and teachers to support and nurture student carrier.

**Student's View: What they say about us**

5

**PRIYABRATA MOHANTY**PhD Biotechnology, 2017  
(IIAR & Pune University)Post-Doctoral Fellow,  
Stephenson Life Science Centre,  
University of Oklahoma, Norman, USA

Writing about IIAR would be like remembering through the tinted glass of time. It was a funny experience working at IIAR like cool work environment, great teachers, good leaders, great support staff. Those birthday parties at the roof tops, good food and missing the love and affection I got from all. Miss good old days at IIAR.

6

**VIJAY SINGH**PhD Biotechnology, 2014  
(IIAR & Pune University)Senior Data Scientist,  
Innoplexus Pvt. Ltd.,  
Pune

I did my doctoral research at Department of Bioinformatics & Structural Biology, IIAR, Gandhinagar. I thoroughly enjoyed and appreciated my journey at IIAR which taught me how to think independently. The faculty and staff helped me and provided every available opportunity from day one to achieve my professional goals and develop interpersonal skills. The huge amount of dynamics the varsity has is amazing and apart from teaching the place also taught me the discipline and dedication which will excel me in future endeavors.

**Activities and Facilities**