

CURRICULUM VITAE



Dr Har Gyan Prakash

Professor & Head

Department of Agricultural Biochemistry

2022

Abstract of Biodata

Dr H.G. Prakash

drhgpk1962@gmail.com

Mob. 7905494486

Professor (Dr.) H.G. Prakash was born on 18 February, 1962 in Village Roshangpur District Auraiya (U.P.), educated from country's premier institutions, M.Sc. Ag from G.B. Pant University of Agriculture & Technology, Pantnagar and Ph.D. from Indian Veterinary Research Institute, Izatnagar (Bareilly). He Joined as Training Associate in C.S.A. University of Agriculture & Technology, Kanpur in September 17, 1987 later on selected as Assistant Professor Animal Nutrition in November 11, 1991 and served in various capacity in the University as Associate professor (27.08.2000 to 16.09.2006), Professor (17.09.2006 to 06.06.2007) and Joint Director Research (07-06-2007 to 17-02-2016). Presently, He is serving as Director Research since February 18, 2016. He has completed 14 research projects in area Animal Nutrition, Forage Production, Farming System based Research and Diversification & Intensification based operational Research & two projects under operation, and developed more than 10 technologies for enhancing agricultural production, conducted 996 outreach activities (71 trainings & 910 FLDs/adopted trials), organized 41 seminars/trainings faculty/students and 220 publications in my credential. He served as Chairman/member in different scientific/study groups and member for different councils/boards. As Joint Director & Director Research, He contributed in execution, monitoring & impact assessment of projects resulting development of 39 cultivars & 105 agro-techniques. He has serving for capacity building of PG students and faculty under World Bank supported project, so far about 8600 PG students across the country were mentored for enhancing their research competency, entrepreneurship development and subject competitiveness. He conferred by different awards (13) notable; Distinguished Scientist Award- 2015 & Rajiv Gandhi Excellence award-2016, University Excellence Award-2017, Distinguished Scientist Award- 2018 (Thailand), International Education Awards 2020 (Top Ten Directors), Excellence in Communication Awards-2020, Leadership Award 2022(CSAU) and Best Director Award (ISA) for my distinguished services and outstanding contribution to the nation. He has also life members of five scientific societies.

CURRICULUM VITAE

1. Name	:	Professor (Dr.) Har Gyan Prakash
2. Designation	:	Professor & Head Department of Agricultural Biochemistry
3. Father's Name	:	Sri Nathu Ram Kushwaha
4. Caste/Religion	:	Kushwaha/ Hindu
5. Permanent Address	:	Village & Post Roshangpur (Muradganj) District Auraiya -206129 (UP)
6. Postal Address	:	Krishi Kunj-7 Chandra Shekhar Azad University of Agriculture & Technology, Kanpur -2
Email		drhgpk1962@gmail.com
Mob.		7905494486
7. Date of Birth	:	18.02.1962

8. Academic Qualification:

Examination Passed	Institute/University	year	Subject
M.Sc. Ag	GB Pant University of Agri.& Technology, Pantnagar	1984	Animal Nutrition, Biochemistry
Ph.D.	IVRI, Izatnagar, Bareilly	1990	Animal Nutrition Biochemistry

9. Working Experience

Post Hold	Pay Scale (Rs)	Experience	
		From	To
Assistant Professor	8000-13500	17.09.1987	16.09.1996
Assistant Professor (SG)	12000-18300	17.09.1996	26.08.2000
Associate Professor	12000-18300	27.08.2000	16.09.2006
Professor	144200-218200 Grade pay 10000	17.09.2006	Till date

10. Administrative Experience

Post Hold	Place/Institute	Experience		Responsibilities'
		From	To	
Officer Incharge	Regional Research Station Hazratpur (Firozabad)	01.09.2000	07.06.2007	Administrative, financial and coordination of research & outreach programmes at regional level
Joint Director Research	CS Azad University of Agriculture & Technology, Kanpur	07.06.2007	17.02.2016	Administrative, financial and coordination of research programmes at University level
Director Research	CS Azad University of Agriculture & Technology, Kanpur	18.02.2016	07.01.2022	Administrative, financial and coordination of research programmes at University level and developing linkages with National & International level Institution for strengthening R&D programme of the University

Duties served as:

Professor & Head	Department of Agricultural Biochemistry	12.01.2022	Till date	Administrative, financial and coordination of teaching, research & outreach programmes
------------------	---	------------	-----------	--

- Coordination, monitoring and execution of research programmes across the faculties
- Sensitization of faculty members for preparation and submission of adhoc projects
- Monitoring of physical and financial progress of Non-Plan Scheme, AICRPs (Plan Schemes) and adhoc projects
- Resource generation
- Financial Management of the University
- Organizing seminars/ Annual Group Meetings/ Workshops/ Webinars/ National-International Trainings
- Participation in review meetings organized by UPCAR, RKVY, NFSM, Department of Agriculture CST, DST, DAC, ICAR etc
- Participation in State Level Sanctioning Committee Meetings Chaired by APC and Chief Secretary, Govt of UP
- Active participation in projects reviews meetings organized by UPCAR, RKVY, ICAR, CST, DST, DBT etc
- Contribution in establishing the linkages with National and International organization
- Sensitization of project incharges for preparation of Annual Reports
- Publication of Annual Reports of University
- Contribution in preparation of Reports for Hon'ble Board of Management, Govt of U.P., ICAR, UPCAR etc
- Worked as Chairman/member in different scientific/study group/council/ boards
- Worked as member/expert in Selection Committee/Screening Committee in different organizations

11. Monitoring and Research/Extension/Coordination

S. No.	Particulars	Individual (No.)	Group (No.)
1.	Assistance in project management and coordination	75	
2.	Preparation of review reports/proceedings and other assigned duties (specify)	-	15
3.	Participation in institutional activities	-	50
4.	Innovation in monitoring and coordinate methods	01	-

12. Institutional Projects operated

S. No	Name of Project	Position
1	Identification and chemical evaluation of goat feed existing in ravines and wasteland of district Ferozabad.	Principal Investigator
2.	Characterization of productive traits of barbari goat under different feeding systems.	Principal Investigator
4	Characterization of productive traits of jamunapari goat under different feeding systems.	Principal Investigator
5	Characterization of productive traits of non descript black goat "pari" in ravenous area of district Hardoi.	Principal Investigator
6	Nutritional status of Bhadawari buffaloes under their home-tract.	Principal Investigator
7	Nutritional management of anoestrous buffaloes under different farming system.	Principal Investigator
8	Formulation of feeding modules based on by product of farming system.	Principal Investigator
9.	Utilization of non-conventional feeds viz. babool pod in Barbari goats.	Principal Investigator
10	Formulation of economic ration by incorporation of red gram straw with crushed barley grains.	Principal Investigator
11	Intensive nutrients production under different plot techniques.	Principal Investigator
12	Evaluation of different varieties of berseem/ sorghum hybrid forage in semi arid eco-system.	Principal Investigator

13. Externally funded Projects operated

Title	Duration	Year	PI/ Co-PI	Funding agency Name	Amount (Lakh)
NAHEP-Centre for Advanced Agricultural Science and Technology on Nutritional Crops	04 years	2018	PI	ICAR, New Delhi	1980.00
Strengthening of <i>rabi</i> cereals for development of high yielding wheat & barely varieties and their agro-technique	02 years	2018	PI	RKVY, Govt of UP	163.30
Centre of Excellence on wheat	05 years	2018	PI	Govt of UP	697.00
Strengthening of vegetable research station	02 years	2018	Nodal Officer	RKVY, Govt of UP	180.00
Diversification and intensification of farming systems for sustainable production and livelihood security of farm families.	03 years	2008 -10	PI	DAC Govt of India	41.00
Centre of Excellence on vegetables	05 years	2018	Co-PI	Govt of UP	699 .00
Establishment and popularization of improved varieties/hybrids of vegetable	01 year	2017	Co-PI	RKVY,	63.00

and their agro- techniques to enhance vegetable production in U.P.				Govt of UP	
Organic farming of technology dissemination and diffusion on vegetable growers fields	Continue	2016	Co-PI	RKVY, Govt of UP	132 .00
Production of quality chicks from parental stock to enhance the poultry production in Uttar Pradesh.	03 years	2009	Co-PI	RKVY, Govt of UP	200.00
Participatory vegetable quality seed production to enhance vegetable seed production in UP	Continue	2009	Co-PI	RKVY, Govt of UP	176.30

14. Implementable Technology Generated:

- Barbari female kids attain early age at first puberty, early age at first kidding, less dry period, less kidding interval, longer lactation length and more milk yield under intensive feeding system.
- Jamunapari female kids attain early age at first puberty, early age at first kidding, less dry period, less kidding interval, longer lactation length and more milk yield under semi-intensive feeding system.
- Female kids of Barbari breed grow faster (63g/d) when supplemented with 150g crushed barley grain in the basal ration of red gram straw.
- Nutrients required by Barbari goats for maintenance and growth (50 to 60 gram per day) can be managed under *Lucerne + Oat-Sorghum (Hyb)* forage system.
- Non-clinical anestrous problem of buffaloes managed by feeding of mineral mixture (50 g/day) alongwith diet as per requirement.
- 8 kg dry straw of wheat/barley plus 10 kg quality forage plus 3.0 kg concentrate with 50 g mineral mixture may be recommended for 8 l milk production per day under wheat/barley-paddy based farming system.
- 8 kg dry stovers of pearl-millet/maize plus 15 kg quality forage plus 3.0 kg concentrate with 50 g mineral mixture may be recommended for 8 l milk production per day under bajra/maize-wheat/barley based farming system.
- 2.0 kg straw plus 45 kg quality fodder plus 2 kg concentrate with 50g mineral mixture may be recommended for 8 l milk production in forage based farming system.
- Female kid of Barbari goat grow faster (60 g/d) and showed early sign of maturity when supplemented with 1.5 % of body weight babool pods.
- Higher nutrients (DCP and TDN) production may be achieved under three plot techniques.
- Container Polythene bag and botanical-turmeric powder @ 4 gm/Kg. seed and their combination are recommended for safe seed storage of pigeon pea.
- Germinability of one year aged okra seeds, can be enhanced to the above MSCS level by seed priming with growth regulator GA₃ 50ppm followed by *Trichoderma*10g/Kg seed.
- The foliar application of 1.0% zinc, magnesium and iron has enhanced 8-10% seed yield and quality of mung bean var. Sweta and Virat during Zaid season.
- Based on data so far recorded, it has been observed that seed primed with Mo @ 5.0 g/Kg and basal dressing of Zinc and Boron @ of 10.0 and 5.0 Kg, respectively gave 10-12% more yield and seed quality.

- 10% Seed Yield of Soybean seed may be enhanced by seed priming with Carbon Nanotubes @ 3.0 µg/ml and 4.0 µg/ml.
- Soyabean was soaked in lukewarm water for 8-12 hours. Soaked soyabean was grinded in grinder. Almost double amount of water was added to the soyabean paste and mixed well. Mixture was sieved through muslin cloth.
- The wheat flour and moong bean flour 70: 30 ratio and other ingredients 50 gm sugar, 50 gm butter, 3 gm baking powder and 1 gm baking soda. The butter with sugar until fluffy and added other ingredients were also added, make a dough properly. The dough was kneaded on a rolling by hand and makes a shape. The oven was preheated for 10 minutes. It was baked in the oven 200 OC for 15 minutes, cooled and packed with biodegradable bags. The nutritive value of moogbean biscuits have 92.47 kcal calorie, 8.2 gm fat, 3.2 gm protein, 10.24 mg calcium, and 0.32 mg iron per 100 gm value.
- The wheat flour and cowpea flour 70: 30 ratio and other ingredients 50 gm sugar, 50 gm butter, 3 gm baking powder and 1 gm baking soda. The butter with sugar until fluffy and added other ingredients were also added, make a dough, cut into a shape. The oven was preheated for 10 minutes. It was baked in the oven 200 OC for 15 minutes, cooled and packed with biodegradable bags. The nutritive value of cow pea biscuits have 92.82 kcal calorie, 8.1 gm fat, 3.4 gm protein, 10.36 mg calcium, and 0.38 mg mg iron per 100gm value.
- Whole wheat 60%, Maize 10%, Bajra 10%, Jowar 10% and Ragi 10%, these raw ingredients is used to make a nutritious Dalia and remaining material make flour and found multigrain Atta. Dalia has nutritive value of 100 gram. Multigrain Dalia has 477 kcal, 16.63 gram Protein, 96.09gram Carbohydrates, 2.69 gram Fibre, 95.2 mg Calcium, 4.67 mg Iron and 2.44 gm Fat per 100 gram of Dalia. In the further remaining products multigrain Atta has 432 kcal calories, 14.01 gram Protein, 64.02 gram Carbohydrate, 4.0 gram Fibre, 60 mg Calcium, 3.44 mg iron and 1.2 gram Fat.
- One kg Wheat flour is mixed with 30 ml of fresh water followed by kneading for 15 minutes at 04 hours intervals. Rolled out the dough to a thin short like paper thickness, cut the strips of the dough in desired shape & collected the pasta on trays, dried at the room temperature for 24 hours. It reduces the microbial contamination and inactivates enzymes during drying process. The nutritive value of cow pea pasta have 2.05 percent moisture, 11.0 percent ash, 9.66 percent protein, and 2.80 mg iron.
- Foliar application of GA3@100ppm in capacicum enhanced fruit yield per plant and also best for highest benefit cost ratio
- Foliar application of mixture of six micronutrients (Boric acid 100 ppm+ Zinc sulphate 100 ppm + Ammonium molybdate 50 ppm + Cooper sulphate 100 ppm + Ferrous sulphate 100 ppm+ Manganese sulphate 100 ppm) increased growth, yield and quality of bitter gourd
- Foliar application of micronutrients (Zinc and Boron) i.e., 0.2% Zinc+ 0.2% Boron improved growth, yield, quality of tomato
- Application of 75 per cent RDF + Azospirillum + VAM increased yield per plant (278.80 g) and also gave, highest net returns (Rs.1,01,596 ha⁻¹) and B:C ratio (2.24:1) in chilli
- Application of Zinc @ 0.50% and boron @ 0.50% gave highest yield and quality fruit in tomato
- Application of vermicompost (@ 2.5 t/ha) + half NPK through chemical fertilizers produced significantly highest total yield of 204.76 q/ha in broccoli

15. Organization of Seminars/Conference/Annual Workshop/ Webinars/ Trainings

55

16. Extension & Field Outreach Activities: 996

1. During 2000-01 and 2001-02, I worked as a convener of the trainings Scientist-farmers interaction / technical trainings organized by KGK, Firozabad and SMS Agra
2. Eighteen trainings on watershed management at watershed level in District Firozabad were organized.
3. Thirty Farmer/Scientist Interface, Two Gosthies, Two trainer training programmes were organized in District Kanpur Nagar and Kanpur Dehat under Diversification and intensification of farming systems for sustainable production and livelihood security of farm families programme.
4. Eight Farmer/Scientist Interface, Two trainer training programmes were organized in Production of quality chicks from parental stock to enhance the poultry production in Uttar Pradesh.
5. Ten Farmer/Scientist Interface, Two trainer training programmes were organized under Participatory vegetable quality seed production to enhance vegetable production in UP.
6. Five Framers-Scientist Interaction in Wheat production programme.
7. 665 FLDs on improved cultivars of wheat & barley
8. 150 adopted research trials on Diversification and intensification of farming systems were conducted.
9. 25 adopted research trials on backyard poultry farming were conducted.
10. 70 adopted research trials on participatory vegetable seed production were conducted.
11. Served as convener of Krishak Gosthies in Farmer's Fair organized at University Campus, Kanpur.
12. TV Talk : Seven (Lucknow Doordarshan, Chaupal)

17. International Exposure

S. No	Particular	Event Name	Country Name	Period
1.	Experience of working in internationally important Organization abroad	Exposure visit	Kasetsart University, Bangkok	April 25-27, 2019
2.		Exposure visit	World vegetable Centre, Taiwan	May 8-12, 2019
3.	Paper/poster presentation in international event abroad- Seminar/ Symposium/ conference/ workshop, training/study mission of less than 03 months period	6 th IAPSIT	Thailand	March 07-09, 2018
4.		7 th GSMAP	Thailand	Nov. 19-21, 2018

18. Publications

S. No.	Particular	Numbers
1.	Research papers in national/international referred journals	44
2.	Conference Papers	18
3.	Research abstracts/extended summary papers	96
4.	Dissertation	02
5.	Book Chapters	10
6.	Books/booklets	24
7.	Proceedings	9
8.	Technical reports	7
9.	Articles in magazine	12
	Total	222

20. Awards/Distinctions Received: 25



(Har Gyan Prakash)
Professor & Head
Department of Bio Chemistry