

**Details of the Patents : Granted**

<b>No.</b>	<b>Title</b>	<b>Patent no.</b>	<b>Filed</b>	<b>Published</b>	<b>Publication number</b>	<b>Grant date</b>	<b>Scientists</b>
1.	An Improved method of Producing plant based Rabies vaccine	Indian patent 224630	13.01.2003	11.05.2007	36/CHE/2003	30.10.2008	Dr. P. H. Ramanjini Gowda Dr. Shampur Narayana Madhusudhan Dr. Tamasandra Kempe Siddarame Gowda
2.	A Wheat chocolate bar for sustained energy release.	Indian patent 229291	04.06.2003	20.03.2009	453/CHE/2003	16.02.2009	Dr. H.B. Shivaleela
3.	Method of Manufacturing highly soluble siliceous fertilizer from husk incineration ash	Indian patent 4894057	13.10.2004	27.04.2006	2006111480	06.01.2012	Dr. Ito Sumio Dr. Takada Yoshizo Dr. N B Prakash
4.	Composition for amelioration of peri- and post-menopausal symptoms and a process for producing the same	US patent 9855308 b2	17.09.2015	05.04.2018	20180092956	02.01.2018	Krishnakumar Illathu Madhavamenon Balu Paulose Maliakel Shamshad Begum Saddapalli Jayalakshmi Hosakere Krishnamurthy Geetha Kalaiah Vasundhara Mariappa Suresha Sanaba Venkataiah
5.	A PROCESS FOR MANUFACTURING NATA-DE-COCO	Indian patent 303710	27.02.2012	30.08.2013	728/CHE/2012	29.11.2018	Dr. B. Narayanaswamy
6.	Aloe Vera Gel Filleting Machine and a Method for Filleting	Indian patent 310723	24.09.2009	19.10.2012	1201/KOL/2009	02.04.2019	Dr. P. Srinivas Rao and Dr. C. T. Ramachandra
7.	Selectable marker system	Indian patent 334157	13.01.2012	26.07.2013	154/CHE/2012	06.03.2020	Vemanna Ramu S Chandrasekhar Babitha K Karaba Nataraja N Makarla Udayakumar
8.	Enhanced loop-mediated isothermal amplification method for detecting latent Xap Infection in pomegranate	IP Australia 2021101342	16.03.2021	25.03.2021	2021101342	28.04.2021	Dr. Prasanna Kumar, M. K. Dr. P. Buella Parivalla, Dr. H. B. Mahesh Dr. D. Pramesh and Dr. Prasad, S. Rajendra

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9.	An apparatus for Sugarcane propagation and a method thereof	IP Australia 2021102640	18.05.2021	10.06.2021	2021102640	16.6.2021	Dr. Nagaraja, T. E. Dr. Yadav Dr. Suresh Dr. Shadakshari, Y. G.
10.	Rapid Genotyping of the Rice R Genes Resistant to Bacterial Leaf Blight using LAMP Technology	IP Australia 2021103516	21.06.2021	22.07.2021	2021103516	28.7.2021	Dr. Prasanna Kumar, M. K., Dr. Parivallal, P Buela, Dr. Mahesh, H. B., Dr. Pramesh, Devanna, Dr. Manjunatha Chennappa, Dr. S. Narayan Karthik, Dr. Venkatesh, Gopal, Dr. N. Banakar, Sahana, Dr. S. Vemanna Ramu, Dr. Rangaswamy, K. T.
11.	Multiplex Detection of <i>Magnaporthe oryzae</i> and <i>Sarocladium oryzae</i> in Rice Seed using a Foldable Membrane Platform based on LAMP Technology	IP Australia 2021103517	22.06.2021	22.07.2021	2021103517	28.7.2021	Dr. Prasanna Kumar, M. K., Dr. Parivallal, P Buela, Dr. Mahesh, H. B., Dr. Pramesh Devanna, Dr. Raj, Edwin
12.	System of duplex detection of Magnaporthe oryzae in rice seeds using a single membrane platform based on LAMP technology in resource-constrained areas	Germany 202022100598	02.02.2022	07.04.2022	07.04.2022	02.3.2022	Dr. Prasanna Kumar, M. K., Dr. B. Sahana Nagaraj, Dr. Mahesh, H. B. Dendrite lab. Pvt. Ltd. Dr. Parivallal, P Buela, Dr. Pramesh, Devanna Dr. Ramegowda, Venkategowda
13.	A process for the preparation of tomato ( <i>Solanum lycopersicum</i> ) bread and tomato bread thereof	Indian patent 396430	22.02.2010	25.05.2012	457/CHE/2010	09.5.2022	Dr. H. B. Shivaleela, Dr. S. Meenakumari Dr. M. A. Rani arvind Dr. L. Gopal
14.	Reusable loop-isothermal amplification single-fold assay for an accurate detection of seed borne associated with rice.	German Patent 202022100599	02.02.2022	05.05.2022	202022100599	30.03.2022	Prasannakumar Mothukapalli Krishnareddy, Basavarajegowda Mahesh Hirehally, Dendrite Laboratories Private Limited, Parivallal Perumal Buela Pramesh Devanna, University of Agricultural Sciences

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15.	Portable system for detecting <i>Pectobacterium_carotovorum</i> subsp. <i>brasiliense</i> strain RDKLR infecting radish using LAMP assay-based-on foldable-membrane platform.	German Patent 202022100597	02.02.2022	14.07.2022	202022100597	08.06.2022	Prasannakumar Mothukapalli Krishnareddy, Basavarajegowda Mahesh Hirehally Chandrashekar Byalahalli Subramani Parivallal Perumal Buela Pramesh Devanna Ramegowda Venkategowda University of Agricultural Sciences
16.	Sub-baric storage system	Indian patent 401836	14.02.2021	19.02.2021	202141006200	22.7.2022	Dr. S. Rajendra Prasad, Dr. Ramachandra, C. T., Dr. Ashoka, H. G., Dr. Shivanna, B., Dr. Mahesh kumar, G. and Dr. Babu Ram Ray.
17.	Rapid and accurate point –of – care lamp colorimetric based diagnostic dipstick	Indian patent 401825	28.11.2020	16.04.2021	202041051925	22.07.2022	Dr. M. K. Prasanna Kumar Dr. P. Buela Parivallal, Dr. H. B. Mahesh Dr. K. T. Rangaswamy Dr. M. E. Puneeth Dr. Yedeyur Gavisiddaiah Shadakshari Dr. Siddegowda Rajendra Prasad
18.	A Soil conditioner and applications related thereto  (Yellow gypsum as a source of Sulphur, Silicon and other micro nutrients in agriculture)	Indian Patent 450892	20.01.2021	2.12.2022	202131002666	12.9.2023	Dr. Prakash Nagabovanalli Dr. Prabhudev Dhumgond Dr. Shruthi Venkatesh Dr. Chikkaramappa Thimmarayappa Dr. Shrenivas Sheturamacharya Ashrit Dr. Supriya Sarkar; Dr. Munish Sudan
19.	A Biosensor for the Early Detection of Plant Pathogens	Indian Patent 456261	27.11.2021	17.06.2022	202141054916	3.10.2023	Dr. Anitha Peter; Dr. Amrita Sukrity Dr. Rohini Bhat V; Dr. Soumya Ganapati Bhat; Dr. M Roshni; Dr. R. S. Anantapur
20.	Solar powered roof top aquaponics food production system	Indian Patent 497178	18.03.2021	26.3.2021	202141011449	10.01.2024	Dr.B.V.Krishnamurthy
21.	Gluten free Roti mix & its preparation process thereof	549913	07.04.2022	22.4.2022	549913	10.09.2024	Dr. Usha Ravindra
22.	Novel morphological and physiological markers to identify haploids in rice at an early growth stage	566318	30.8.2021	3.3.2023	202141039115	6.05.2025	Dr.B.Mohanraj

**Details of the Patents: Affiliated to the Faculty of UASB**

<b>N o.</b>	<b>Title</b>	<b>Patent no.</b>	<b>App No.</b>	<b>Filed</b>	<b>Published</b>	<b>Publication number</b>	<b>Grant date</b>	<b>Scientists</b>	<b>Sharing Institute</b>
23	Transgenic plants with enhanced traits	US10323 253	15532681	02.12.2015	28.12.2017	US20170369894	18.06.2019	Dr. Savitha Madappa	Monsanto Technology LLC
24	Transgenic plants with enhanced traits	US11168 333	16417505	20.05.2019	19.12.2019	US20190382782	09.11.2021	Dr. Savitha Madappa	Monsanto Technology LLC
25	Transgenic plants with enhanced agronomic traits	US11479 783	16602981	09.01.2020	02.07.2020	US20200208167	25.10.2022	Dr. Savitha Madappa	Monsanto Technology LLC
26	Root vegetables cleaning machine	Design No. 389643-001	389643-001	05/07/20 23	23.02.2024	21.02.2024	21.2.2024	Dr.Anand, B.A.	SJB Institute of Technology, Department of Mechanical Engineering, Outer Ring Road, Kengeri, Bengaluru-
27	Design and development of nanofluid based extended surface module for milkcooling	Indian patent 516796	20181102 1472	8.6.2018	13.12.2019	201811021472	28.2.2024	Dr. MANJUNATHA, M.	ICAR

**Details of the Design Certificates granted**

<b>No.</b>	<b>Title</b>	<b>Patent no.</b>	<b>Grant date</b>	<b>Scientists</b>	<b>Collaborating agency</b>
1	Root vegetables cleaning machine	Design No. 389643-001	21.2.2024	Dr.Anand, B.A.	SJB Institute of Technology, Department of Mechanical Engineering, Outer Ring Road, Kengeri, Bengaluru
2	Pesticide sprayer	Design No.436235-001	27.12.2024	Dr.Jayshree,G.C.	Maharana Pratap University of Agriculture and Technology, Udaipur

### Details of the Patents: Published / Filed

No.	Title	Budget / App No.	Filed	Published	Publication number	Scientists	Affiliation
1	A method for inducing early and rapid bud break in mulberry plants	202041024544 Docket No. 50628 E-1/217174/2020-CHE	11.06.2020	17.12.2021	202041024544	Dr.Nataraja Karaba	-
2	Modified process for preparation of nutridense Designer Samosa	202241069868	03.12.2022	30.12.2022	202241069868	Dr. Usha Ravindra	-
3	Modified process for preparation of nutridense moringa pasta with masala	202241070731	07.12.2022	16.12.2022	202241070731	Dr. Usha Ravindra	-
4	Development of low cost strata / platform from recyclable plastic waste for the rapid detection of plant virus (colorimetric)	202141054918	27.11.2021	05.08.2022	202141054918	Dr. Anitha Peter	-
5	Development of an alternative and simple in planta method of plant genetic transformation using a cationic lipid	202141054917	27.11.2021	08.07.2022	202141054917	Dr. Anitha Peter	-
6	Novel visual markers to identify haploids in rice at very early stage	202141039115 e-2/3747/2022 CHE	29.08.2022		202141039115	Dr.B.Mohanraj	-
7	Molecular detection of <i>Magnaporthe oryzae</i> by LAMP-CRISPR cas12a technique	202541028218	26.03.2025			Harvinder Kour Khera M.K. Prasanna Kumar, Karan R, Rakesh Mishra	Tata Institute of Genetics and Society
8	Molecular detection of <i>Magnaporthe oryzae</i> by RPA-CRISPR cas12a technique	202541014085	19.02.2025			Harvinder Kour Khera M.K. Prasanna Kumar, Karan R, Rakesh Mishra	Tata Institute of Genetics and Society
9	Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) as Internal Control for LAMP-CRISPR assay in Plants.	202541074255	04.08.2025			Harvinder Kour Khera M.K. Prasanna Kumar, Rakesh Mishra	Tata Institute of Genetics and Society

10	Molecular Detection of <i>Sarocladium oryzae</i> by LAMP-CRISPR Cas12a technique.	202541075039	07.08.2025			Harvinder Kour Khera M.K. Prasanna Kumar, Rakesh Mishra	Tata Institute of Genetics and Society
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