



## Directorate of Research, SKUAST-K

**Patents Filed: 40**

**Patents granted : 05**

Patents submitted during financial year 2018-19			
S. No.	Title of the Patent	Submitted by	Application No./ code
01	“Quick RNA extraction from Apple tissues ( <i>Malus domestica</i> )”	Dr Khalid Z. Masoodi, Assistant Prof./Co-PI	201911025187
02	SMART gel (SKUAST-K Matrix Assisted Reporter gel	Dr Khalid Z. Masoodi, Assistant Prof./Co-PI	201911026650
03	“Rain water harvesting with zero energy application for fruit tree / agri-fruit tree cropping”	Dr. Waseem Raja, Assistant Prof., Division of Agronomy, FoA, Wadura	201911004239
04	“An organic fertilizer preparation using Aquatic weeds (Dal Weed) through Microbial Fermentation”	Dr. Khurshid Ahmad Bhat Assistant Prof., Division of Plant Pathology, FoA, Wadura.	201911003321
05	A process of isolating and culturing of primary epithelial cells”	Dr. Syed Mudasir Andrabi Assoc Prof Division of Animal Biotechnology	201911013320
Patents submitted during financial year 2019-20			
01	A modified detection technique on PAFW (PAGE-QEDDP) and the novelty of technique is time saving with quick and easy detection of DNA polymorphism along with storage facility as a library of stained gels	Dr. Sajad Majeed Zargar, Assistant Prof. Division of Plant Biotechnology, FoH, Shalimar	201911029884
02	“A New Economical Tissue Culture Medium Based on aquatic Weed (Dal Weed) Extract”	Dr. Khursheed Hussain, Asstt. Prof. Veg. Science, SKUAST-K.	202011006729
03	“Aquatic Weed (Dal weed) based general purpose fungi growth medium”	Dr. Khurshid Ahmad Bhat Asstt.Prof., Division of Plant Pathology, FoH, Shalimar	201811008387
05	Bio – Active Molecules from <i>Taraxcum officinale</i> inhibit Androgen Receptor Nuclear Localization and Function in	Dr. Khalid Z. Masoodi, Assistant Prof. Division of Plant Biotechnology, FoH, Shalimar	SKICCDL-1

	Castration resistant prostate Cancer		
06	“(3 $\beta$ ,25R) – Spirost-5-en-3-ol from <i>Dioscorea deltoidei</i> inhibits C4-2 human castration resistant prostate cancer xenografts in nude mice through Androgen Receptor and P13 Kinase pathway inactivation”	Dr. Khalid Z. Masoodi, Assistant Prof. Division of Plant Biotechnology, FoH, Shalimar	SKICCDL-2
07	CBRI-GFP fusion protein to track the intracellular localization of CBF1 in response to cold stress and the methods thereof	Dr. Khalid Z Masoodi Assistant Prof. Division of Plant Biotechnology, FoH, Shalimar	K-Lab-5
<b>Patents submitted for the year 2020-21</b>			
01	Smart Sheep Breeder	Dr. Ambreen Hamadani, Ph. D Scholar, Div. of Animal Genetics & Breeding, FVSc. & AH, Shuhama	Sanctioned
02	Development of product from atriplex hortensis with potent natraceuticals for human health	Dr Imtiyaz Murtaza Div. of Basic Sciences & Humanities	201911029884
03	Natraceutical enrichment of sprouts and their use thereof for oxidative stress related issues	Dr Imtiyaz Murtaza Div. of Basic Sciences & Humanities	Do
04	Remotely controlled self propelled boom sprayer	Dr Imtiyaz Murtaza Div. of Basic Sciences & Humanities	Do
05	Novel detection technique on PAGE (PAGE for quick and easy detection of DNA polymorphism) PAGE – QEDDP	Dr. Sajad Majeed Zargar, Assistant Prof. Division of Plant Biotechnology, FoH, Shalimar	201911029884
06	Technology for detection of fake saffron	Dr. Amjad Masood Hussaini, Asstt. Prof. Div. of Plant Biotechnology, FoH, Shalimar	--
07	Dispersible saffron kehwa tablets	Division of Food Science & Technology, Shalimar	202011024677
08	High efficiency electric walnut grading machine	Division of Food Science & Technology	202011023757
09	An improved pre-conditioning method of walnut cracking for value addition of leanest	Division of Food Science & Technology	202011029852
10	Improved apricot powder with longer shelf life and process preparing the same	Division of Food Science & Technology	202011036556

11	Comprehensive, automatic, inshelled walnut processing system and an application method thereof	Division of Food Science & Technology	2020110265411
12	An improved multifunctional power operated high efficiency walnut dehuller-cum-washer	Division of Food Science & Technology	202011034399
13	Low cost mushroom structure design for production of mushroom under cold arid conditions	Dr. Vikas Gupta, SMS, KVK, Leh	201911025104
14	Formulation for eradication of tree cankers and methods thereof	Dr. Arif Hussain Bhat, Ph. D Scholar, Div. of Plant Pathology, Shalimar	--

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**Patents Granted : 05**

S.No	Name of Patent	Submitted by	Patent No
01	"Table Top Paddle Operated NAIP Charkha for Cashmere (Pashmina fibre)	Prof. Sarfaraz Ahmad Wani, PI, NAIP Pashmina	3616/DEL/2011
02	Mistletoe Eradicator: Developing a device for controlling Mistletoe in Walnut and other trees	Dr. Khursheed Ahmad, Division of Pathoogy	340843
03	Estimation of mineral oil residue in soil and apple fruit by GC with flame ionization detection	Dr. Malik Mukhtar Division of Entomology	201811002954A
04	"Novel method for hydrolyzing keratinous waste and use thereof"	Prof. Imtiyaz Murtaza, Division of Basic Sci. & Humanities, FoH, Shalimar.	201911047825
05	PCR based identification of Pashmina fibre	Prof. Sarfaraz Ahmad Wani, PI, NAIP Pashmina	Granted