

Faculty name	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication
Prof. Shajrul Amin	Androgen receptor signalling transactivator lncRNAs PRNCR1 and PCGEM contribute to PCOS pathogenesis	Mudasar Nabi, Shayaq UI Abeer Rasool, Sairish Ashraf, Syed Mudasar Majid and Shajrul Amin	Biochemistry	Scientific reports	Under revision
	Insulin receptor substrate1 Gly972Arg (rs1801278) polymorphism is associated with obesity and insulin resistance in Kashmiri women with polycystic ovary syndrome	Shayaq UI Abeer Rasool, Mudasar Nabi, Sairish Ashraf and Shajrul Amin	Biochemistry	Genes	2022
	Androgen receptor coregulator long non-coding RNA CTBP1-AS is associated with polycystic ovary syndrome in Kashmiri women	Mudasar Nabi, Syed Mudasar Andrabi, Shayaq UI Abeer Rasool, Sairish Ashraf, Imran Majid and Shajrul Amin	Biochemistry	Endocrine	2022
	Clinical Manifestations of hyperandrogenism and ovulatory dysfunction are not associated with His1058 C/T SNP (rs1799817) polymorphism of insulin receptor gene tyrosine kinase domain in Kashmiri women with PCOS	Shayaq UI Abeer Rasool, Sairish Ashraf, Mudasar Nabi, Shariq R. Masoodi, Khalid M. Fazili, Shajrul Amin	Biochemistry	International Journal of Endocrinology	2021
	Impact of rs2414096 polymorphism of CYP19 gene on susceptibility of polycystic ovary syndrome and hyperandrogenism in Kashmiri women	Sairish Ashraf, Shayaq ul Abeer Rasool, Mudasar Nabi, Mohd Ashraf Ganie, Shajrul Amin	Biochemistry	Scientific Reports	2021
	CYP17 gene polymorphic sequence variation is associated with hyperandrogenism in Kashmiri women with polycystic ovarian syndrome	Sairish Ashraf, Shayaq ul Abeer Rasool, Mudasar Nabi, Mohd Ashraf Ganie, Shajrul Amin	Biochemistry	Gynecological Endocrinology	2021
	Active Cousinia thomsonii extracts modulate expression of crucial proinflammatory mediators/ cytokines and NFκB cascade in lipopolysaccharide-induced albino wistar rat model	Khalid Bashir Dar, Ishfaq Shafi Khan, Shajrul Amin, Aijaz Ganie Aashiq Hussain Bhat, Showkat A. Dar, Bilal Ahmad Reshi, Showkat Ahmad Ganie	Biochemistry	Journal of Inflammation Research	2020
	In vitro and in vivo immunomodulatory effect of Lavatera cashmeriana protein concentrate.	M.I. Dar, A. Khajuria, K. B. Dar, B. Rah, T. Sidiq, S. A. Ganie, A. Masood, S. Amin	Biochemistry	Indian Journal of Pharmaceutical Sciences	2020

	Elucidating Critical Proteinopathic Mechanisms and Potential Drug Targets in Neurodegeneration	Khalid Bashir Dar, Aashiq Hussain Bhat, Shajrul Amin, Bilal Ahmad Reshi, Mohammad Afzal Zargar, Akbar Masood, Showkat Ahmad Ganie	Biochemistry	Cellular and Molecular Neurobiology	2020
	Hyperandrogenism in polycystic ovarian syndrome and role of CYP genes: a review	Sairish Ashraf, Mudasar Nabi, Shayaq ul Abeer Rasool, Fouzia Rashid, Shajrul Amin	Biochemistry	Egyptian Journal of Medical Human Genetics	2019
	Insulin gene VNTR class III allele is a risk factor for insulin resistance in Kashmiri women with polycystic ovary syndrome	Shayaq UI Abeer Rasool, Sairish Ashraf, Mudasar Nabi, Fouzia Rashid, Shariq R. Masoodi, Khalid M. Fazili, Shajrul Amin (	Biochemistry	Meta Gene	2019
	Oral contraceptive use increases risk of inflammatory and coagulatory disorders in women with Polycystic Ovarian Syndrome: An observational study	Saika Manzoor, Mohd Ashraf Ganie, Shajrul Amin, Zaffar A Shah, Imtiyaz A Bhat, S. Douhath Yousuf, Humira Jeelani, Iram A Kawa, Qudsia Fatima & Fouzia Rashid	Biochemistry	Scientific Reports	2019
	Elevated fasting insulin is associated with cardiovascular and metabolic risk in women with polycystic ovary syndrome.	Shayaq UI Abeer Rasool, Sairish Ashraf, Mudasar Nabi, Fouzia Rashid, Khalid M. Fazili, Shajrul Amin	Biochemistry	Diabetes & Metabolic Syndrome: Clinical Research & Reviews	2019
	Prevalence of Clinical Manifestations of Polycystic Ovary Syndrome in Kashmiri Women	Rasool SUA, Nabi M , Ashraf S, Fazili K M and Amin S	Biochemistry	International Journal of Pharmacy and Biological Sciences	2019
	Clinical Perspectives of Posttranslational Modifications. Protein Modificomics	Iram Ashaq Kawa, Akbar Masood, Shajrul Amin, Mir Faisal Mustafa, Fouzia Rashid	Biochemistry	Protein Modificomics	2019
	Evaluation of antioxidant defense markers in relation to hormonal and insulin parameters in women with polycystic ovary syndrome (PCOS): A case-control study. Diabetes & Metabolic Syndrome	Qudsia Fatima, Shajrul Amin, Iram Ashaq Kawa, Humira Jeelani, Saika Manzoor, Syeed Masuma Rizvi, Fouzia Rashid	Biochemistry	Diabetes & Metabolic Syndrome: Clinical Research & Reviews	2019

	Impact of catechol-O-methyltransferase gene variants on methylation status of P16 and MGMT genes and their downregulation in colorectal cancer	Hilal Ahmad Wani, Sabhiya Majid, Arif Bhat, Shajrul Amin, Rabia Farooq, Nisar A. Naikoo, Mushtaq Ahmad and Showkat A. Kadla	Biochemistry	European Journal of Cancer Prevention	2019
	Effect of Paraoxonase 1 (PON1) gene polymorphism on PON1 activity, HDL, LDL and MDA levels in women with Polycystic Ovary Syndrome (PCOS): a case control study	Humaira Jeelani, Mohd Ashraf Ganie, Shajrul Amin, Qudsia Fatima, Iram Ashaq, Saika Manzoor, Tabasum Pervaiz and Fouzia Rashid	Biochemistry	Meta Gene	2019
Prof Nazir A. Dar	LC-MS/MS based characterization and differential expression of proteins in Himalayan snow trout, <i>Schizothorax labiatus</i> using LFQ technique.	Jan K, Ahmed I, Dar NA, Farah MA, Khan FR, Shah BA, Fazio F.	Biochemistry	Sci Rep	2023
	Downregulation of pro-inflammatory markers NF- $\kappa$ B1, RelA and COX-2 using <i>Aconitum chasmanthum</i> Stapf ex Holmes- in vitro and in-silico study.	BA Malla, S Rafiq, A Hadi, A Ali, ZA Kaloo, NA Wagay, NA Dar.	Biochemistry	Industrial Crops and Products	2023
	Insights into molecular docking and dynamics to reveal therapeutic potential of natural compounds against P53 protein.	BA Malla, A Ali, I Maqbool, NA Dar, SB Ahmad, RM Alsaffar, MU Rehman.	Biochemistry	Journal of Biomolecular Structure and Dynamics	2023
	The role of sex, season and reproduction status on blood parameters in snow trout ( <i>Schizothorax labiatus</i> ) from River Jhelum, Kashmir, India	K Jan, I Ahmed, NA Dar	Biochemistry	Environmental Monitoring and Assessment	2022
	Parasitic anomalies observed in snow trout due to anthropogenic stress in water bodies	Un Nissa N, Jan M, Tantray JA, Dar NA, Jan A, Ahmad F, Paray BA, Gulnaz A	Biochemistry	Saudi J Biol Sci	2022
	Effects of dietary isoleucine on growth performance, enzymatic activities, antioxidant properties and expression of TOR related genes in rainbow trout, <i>Oncorhynchus mykiss</i> fingerlings	Ahmad, Ishtiyag; Ahmed, Imtiaz; Dar, Nazir A	Biochemistry	Aquaculture Research	2022
	Effects of dietary leucine levels on growth performance, hematobiochemical parameters, liver profile, intestinal enzyme	Ahmad, Ishtiyag; Ahmed, Imtiaz; Dar, Nazir A	Biochemistry	Aquaculture Nutrition	2021

	activities and target of rapamycin signalling pathway related gene expression in rainbow trout, <i>Oncorhynchus mykiss</i> fingerlings				
	Prevalence of alcohol dehydrogenase 1B and aldehyde dehydrogenase 2 genotypes in Kashmir, an Asian high-risk region of esophageal squamous cell carcinoma	Beenish Iqbal, Idrees Ayoub Shah, Gulzar Ahmad Bhat, Mansha Muzaffar, Najma Nissa, Sumaiya Nabi, Syed Tanveer Iqbal, Mohd Maqbool Lone, Farhad Islami, Paolo Boffetta, Nazir Ahmad Dar	Biochemistry	Human Gene	
	Dietary valine improved growth, immunity, enzymatic activities and expression of TOR signaling cascade genes in rainbow trout, <i>Oncorhynchus mykiss</i> fingerlings	Ahmad I, Ahmed I, Dar NA	Biochemistry	Sci Rep.	2021
	ABO Blood Group and the Risk of Esophageal Squamous Cell Carcinoma in Kashmir, a High Risk Region	Malik Tariq Rasool, Ashfaq Hafiz, Saqib Zaffar Bandy, Ishtiyaq Ahmad Dar, Shareefa Akhter, Mohd Zubair Qureshi, Sajad Geelani, Nazir Ahmad Dar	Biochemistry	Journal of Gastrointestinal Cancer,	2020
	Mass ARRAY analysis of twelve cancer related SNPs in esophageal squamous cell carcinoma in J&K, India,	R Shah, V Sharma, A Bhat, H Singh, I Sharma, S Verma, GR Bhat, NA Dar.	Biochemistry	BMC Cancer	2020
	LRFN2 gene variant rs2494938 provides susceptibility to esophageal cancer in the population of Jammu and Kashmir.	Shah R, Sharma V, Singh H, Sharma I, Bhat GA, Shah IA, Iqbal B, Rafiq R, Nissa N, Muzaffar M, Rasool MT, Lone GN, Kaul S, Lone MM, Rai E	Biochemistry	J Can Res Ther	2020
	Strenuous occupational physical activity: Potential association with esophageal squamous cell carcinoma risk	Idrees Ayoub Shah, Gulzar Ahmad Bhat, Rumaisa Rafiq, Najma Nissa, Mansha Muzaffar, Malik Tariq Rasool, Mohd Maqbool Lone, Ghulam Nabi Lone, Paolo Boffetta, Nazir Ahmad Dar	Biochemistry	Proceedings of Singapore Healthcare	2019
	Association of Activity Altering Genotypes - Tyr113His and His139Arg in Microsomal	Nabi S, Bhat GA, Iqbal B, Lone MM, Lone GN, Khan MA, Dar NA	Biochemistry	Nutr Cancer	2019

	Epoxide Hydrolase Enzyme with Esophageal Squamous Cell Carcinoma				
Dr Shaida Andrabi	Lipin-1 stability and its adipogenesis functions are regulated in contrasting ways by AKT1 and LKB1	Misbah Un Nisa, Syed Qaaifah Gillani, Nusrat Nabi, Zarka Sarwar, Sameer Bhat, Irfana Reshi and Shaida Andrabi	Biochemistry	Journal of Cell Communication and Signaling.	2023
	PCTAIRE promotes mitotic progression and survival of cancer cells against apoptotic signals	Syed Qaaifah Gillani, Irfana Reshi, Misbah Un Nisa, Nusrat Nabi, Zarka Sarwar, Sameer Bhat, Thomas Roberts, Jonathan Higgins, Shaida Andrabi	Biochemistry	J Cell Sci	2022
	Interaction of DBC1 with polyoma small T antigen promotes its degradation and negatively regulates tumorigenesis	Zarka Sarwar, Nusrat Nabi, Sameer Ahmed Bhat, Syed Qaaifah Gillani, Irfana Reshi, Misbah Un Nisa, Guillaume Adelmant, Jarrod Marto, Shaida Andrabi.	Biochemistry	J. Biol. Chem	2022
	Regulation of PCTAIRE1 protein stability by AKT1, LKB1 and BRCA1	Syed Qaaifah Gillani, Misbah un Nisa, Zarka Sarwar, Irfana Reshi, Sameer Bhat, Nusrat Nabi, Shaida Andrabi	Biochemistry	Cellular Signalling	2021
	Polyoma Small T antigen induces apoptosis in mammalian cells through UNC5B pathway in a PP2A dependent manner.	Sameer Ahmed Bhat, Zarka Sarwar, Qaaifah Gillani, Misbah Un Nisa, Irfana Reshi, Shaozhen Xie, Khalid M Fazili, Thomas M Roberts, Shaida Andrabi	Biochemistry	Journal of Virology	2020
	Akt regulates mitotic progression of mammalian cells by phosphorylating MASTL leading to PP2A inactivation	Irfana Reshi, Misbah Shah, Umer Farooq, Sameer Bhat, Qaaifah Gillani, Zarka Sarwar, Nusrat Nabi, Khalid Fazili, Shaida Andrabi	Biochemistry	Molecular and Cellular Biology	2020
	A network map of UNC5B signaling.	Sameer A. Bhat, Sumrati Gurtoo, Sayali Deolankar, Khalid M. Fazili, Jayshree Advani, Rohan Shetty, T. S. Keshava Prasad, Shaida	Biochemistry	Journal of Cell Communication and Signaling	2019

		Andrabi * , Yashwanth Subbannayya*			
Dr. Mohd Ashraf Dar	Asymptomatic malaria infection prevailing risks for human health and malaria elimination	D Prusty, N Gupta, A Upadhyay, A Dar, B Naik, N Kumar, VK Prajapati	Biochemistry	Infection, Genetics and Evolution	2021
	Exploring the mTOR Signalling Pathway and Its Inhibitory Scope in Cancer,	Mir SA, A Dar, Alshehri SA, Wahab S, Hamid L et al	Biochemistry	Pharmaceuticals	2023
	Flavonoids as promising molecules in the cancer therapy: An insight	Mir SA, Dar A, Hamid L, Nisar N, Malik JA, et al.	Biochemistry	Curr Res Pharmacol Drug Discov	2023
	Plasmodium falciparum topoisomerases: Emerging targets for anti-malarial therapy.	Dar A*, Godara P, Prusty D, Bashir M	Biochemistry	European Journal of Medicinal Chemistry	2023
	Deubiquitination of DDB1 by USP7 promotes DNA damage repair and cell survival	Maqbool R, Nagraj T, Nagaraju G, Amin S, Dar A	Biochemistry	Molecular and Cellular Biology	Under revision
Dr Gulzar Ahmad Bhat	Isolation, bioevaluation and RP-HPLC method development for the chemical constituents of aerial parts of scutellaria prostrata JACQ. ex BENTH	Gulzar, B., Lone, S. H., Rather, M. A., & Shawl, A. S.	Biochemistry	South African Journal of Botany	2022

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> [Genes \(Basel\)](#). 2022 Aug 17;13(8):1463. doi: 10.3390/genes13081463.

# Insulin Receptor Substrate 1 Gly972Arg (rs1801278) Polymorphism Is Associated with Obesity and Insulin Resistance in Kashmiri Women with Polycystic Ovary Syndrome

Shayaq Ul Abeer Rasool <sup>1</sup>, Mudasar Nabi <sup>2</sup>, Sairish Ashraf <sup>2</sup>, Shajrul Amin <sup>2</sup>

Affiliations [+ expand](#)

PMID: 36011374 PMCID: [PMC9408134](#) DOI: [10.3390/genes13081463](#)

## Abstract

Background: Polycystic ovary syndrome (PCOS) is commonly associated with metabolic abnormalities such as hyperinsulinemia, insulin resistance and obesity. The genetic variants of genes regulating insulin action, expression and regulation are suggested as possible factors involved in development and severity of clinical manifestations in PCOS. Aim: We investigated whether IRS-1 Gly972Arg

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> [Endocrine](#). 2022 Feb;75(2):614-622. doi: 10.1007/s12020-021-02894-9. Epub 2021 Oct 5.

# Androgen receptor coregulator long noncoding RNA CTBP1-AS is associated with polycystic ovary syndrome in Kashmiri women

Mudasar Nabi <sup>1</sup>, Syed Mudasir Andrabi <sup>2</sup>, Shayaq Ul Abeer Rasool <sup>3</sup>, Sairish Ashraf <sup>1</sup>, Imran Majid <sup>4</sup>, Shajrul Amin <sup>5</sup>

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PMID: 34611799 DOI: [10.1007/s12020-021-02894-9](#)

## Abstract

**Objective:** Polycystic ovary syndrome (PCOS) is one of the most common reproductive, endocrine, and metabolic disorder in premenopausal women. Even though the pathophysiology of PCOS is complex and obscure, the disorder is prominently considered as the syndrome of hyperandrogenism. C-Terminal binding protein 1 antisense (CTBP1-AS) acts as a novel androgen receptor regulating long noncoding RNA (lncRNA). Therefore, the present study was aimed to establish the possible

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> Int J Endocrinol. 2021 Dec 6;2021:7522487. doi: 10.1155/2021/7522487. eCollection 2021.

# Clinical Manifestations of Hyperandrogenism and Ovulatory Dysfunction Are Not Associated with His1058 C/T SNP (rs1799817) Polymorphism of Insulin Receptor Gene Tyrosine Kinase Domain in Kashmiri Women with PCOS

Shayaq Ul Abeer Rasool<sup>1</sup>, Sairish Ashraf<sup>2</sup>, Mudasar Nabi<sup>2</sup>, Shariq R Masoodi<sup>3</sup>, Khalid M Fazili<sup>1</sup>, Shajrul Amin<sup>2</sup>

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> Sci Rep. 2021 Jun 21;11(1):12942. doi: 10.1038/s41598-021-92265-1.

# Impact of rs2414096 polymorphism of CYP19 gene on susceptibility of polycystic ovary syndrome and hyperandrogenism in Kashmiri women

Sairish Ashraf<sup>1</sup>, Shayaq Ul Abeer Rasool<sup>2</sup>, Mudasar Nabi<sup>1</sup>, Mohd Ashraf Ganie<sup>3</sup>, Shariq R Masoodi<sup>3</sup>, Shajrul Amin<sup>4</sup>

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## Abstract

Polycystic ovary syndrome (PCOS) is the most common reproductive endocrine disorder in pre-





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> [Gynecol Endocrinol.](#) 2021 Mar;37(3):230-234. doi: 10.1080/09513590.2020.1770724.  
Epub 2020 May 27.

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## CYP17 gene polymorphic sequence variation is associated with hyperandrogenism in Kashmiri women with polycystic ovarian syndrome

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Sairish Ashraf <sup>1</sup>, Shayaq Ul Abeer Rasool <sup>2</sup>, Mudasar Nabi <sup>1</sup>, Mohd Ashraf Ganie <sup>3</sup>, Farhat Jabeen <sup>4</sup>, Fouzia Rashid <sup>5</sup>, Shajrul Amin <sup>1</sup>

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## Active *Cousinia thomsonii* Extracts Modulate Expression of Crucial Proinflammatory Mediators/Cytokines and NFκB Cascade in Lipopolysaccharide-Induced Albino Wistar Rat Model

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Khalid Bashir Dar <sup>1</sup>, Ishfaq Shafi Khan <sup>2</sup>, Shajrul Amin <sup>1</sup>, Aijaz Hassan Ganie <sup>3</sup>, Aashiq Hussain Bhat <sup>4</sup>, Showkat Ahmad Dar <sup>5</sup>, Bilal Ahmad Reshi <sup>6</sup>, Showkat Ahmad Ganie <sup>1</sup>

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PMID: 33173324 PMCID: PMC7646511 DOI: 10.2147/JIR.S272539

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Abstract

Research Paper

## In vitro and in vivo Immunomodulatory Effect of *Lavatera cashmeriana* Protein Concentrate

M. I. DAR<sup>1,3</sup>, A. KHAJURIA<sup>3</sup>, K. B. DAR<sup>1,2</sup>, B. RAH<sup>3</sup>, T. SIDIQ<sup>3</sup>, S. A. GANIE<sup>2\*</sup>, A. MASOOD<sup>1</sup>, S. AMIN<sup>1,2</sup>

Department of Biochemistry, <sup>1</sup>Department of Clinical Biochemistry, University of Kashmir, Srinagar-190 006, <sup>2</sup>Pharmacology Division, Indian Institute of Integrative Medicine, Canal Road, Jammu-180 001, India

**Dar et al.: Immunomodulatory effect of *Lavatera cashmeriana***

This study investigated the immunomodulatory effect of *Lavatera cashmeriana* protein concentrate. Ammonium sulphate method was used to obtain crude protein concentrate from mature seeds. Splenocytes were collected from BALB/c mice and the effect of *Lavatera cashmeriana* protein concentrate on cell viability was investigated using MTT assay. Splenocyte proliferation was triggered by lipopolysaccharide and Con-A and absorbance was recorded using enzyme-linked immunosorbent assay. Lipopolysaccharide was used to induce endotoxic shock in BALB/c mice. Blood samples were analysed for TNF- $\alpha$  and IL-6 levels using enzyme-linked immunosorbent assay. T and B cell surface markers were evaluated using flowcytometry. Primary and secondary antibody titre was determined by haemagglutination technique. Delayed type hypersensitivity model was used to check the ability of *Lavatera cashmeriana* protein concentrate in blocking SRBC antigen-induced paw oedema. *Lavatera cashmeriana* protein concentrate showed no toxic symptoms in mice up to the concentration of 500 mg/kg. *Lavatera cashmeriana* protein concentrate caused dose-dependent decrease in B and T cell proliferation. Maximum inhibition was observed at 800  $\mu$ g/ml. *Lavatera cashmeriana* protein concentrate reduced lipopolysaccharide-induced production of TNF- $\alpha$  and IL-6. *Lavatera cashmeriana* protein concentrate decreased the levels of T cells (12.5 % CD4+ and 9.65 % CD8+ T cells) in BALB/c mice receiving 50 mg/kg compared to control (22.16 % CD4+ and 16.44 % CD8+ T cells). Mice administered with 200 mg/kg of *Lavatera cashmeriana* protein concentrate exhibited lowest % of CD19+ B cells (10.44 %) compared to control (20.16 %). Dose-dependent reduction was observed in antibody titre and delayed type hypersensitivity response. *Lavatera cashmeriana* protein concentrate played a potential role in modulating immune response and could serve as an effective antiinflammatory for treating inflammation.

**Keywords:** *Lavatera cashmeriana*, immunomodulatory, lipopolysaccharide, haemagglutination, paw oedema

Review > Cell Mol Neurobiol. 2020 Apr;40(3):313-345. doi: 10.1007/s10571-019-00741-0.

Epub 2019 Oct 4.

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## Elucidating Critical Proteinopathic Mechanisms and Potential Drug Targets in Neurodegeneration

Khalid Bashir Dar<sup>1 2</sup>, Aashiq Hussain Bhat<sup>1 2</sup>, Shajrul Amin<sup>2</sup>, Bilal Ahmad Reshi<sup>3</sup>,  
Mohammad Afzal Zargar<sup>1</sup>, Akbar Masood<sup>2</sup>, Showkat Ahmad Ganie<sup>4</sup>

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PMID: 31584139 DOI: 10.1007/s10571-019-00741-0

### Abstract

Neurodegeneration entails progressive loss of neuronal structure as well as function leading to

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Observational Study > Sci Rep. 2019 Jul 15;9(1):10182. doi: 10.1038/s41598-019-46644-4.

## Oral contraceptive use increases risk of inflammatory and coagulatory disorders in women with Polycystic Ovarian Syndrome: An observational study

Saika Manzoor<sup>1</sup>, Mohd Ashraf Ganie<sup>2</sup>, Shajrul Amin<sup>1</sup>, Zaffar A Shah<sup>3</sup>, Imtiyaz A Bhat<sup>3</sup>, S Douhath Yousuf<sup>1</sup>, Humira Jeelani<sup>1</sup>, Iram A Kawa<sup>1</sup>, Qudsia Fatima<sup>1</sup>, Fouzia Rashid<sup>4</sup>

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PMID: 31308416 PMCID: PMC6629878 DOI: 10.1038/s41598-019-46644-4

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Online ISSN: 2230-7605, Print ISSN: 2321-3272

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# Prevalence of Clinical Manifestations of Polycystic Ovary Syndrome in Kashmiri Women

Rasool SUA<sup>1</sup>, Nabi M<sup>2</sup>, Ashraf S<sup>2</sup>, Fazili K M<sup>1</sup> and Amin S<sup>2\*</sup>

<sup>1</sup>Department of Biotechnology, University of Kashmir, India.

<sup>2</sup>Department of Biochemistry, University of Kashmir, India.

Received: 13 Mar 2019 / Accepted: 12 Apr 2019 / Published online: 1 Jul 2019

Corresponding Author Email: [shajrulamin@uok.edu.in](mailto:shajrulamin@uok.edu.in)

### Abstract

**Aim:** To study the prevalence of various primary clinical manifestations of polycystic ovary syndrome in Kashmiri women. **Methods:** Women attending endocrinology outpatient clinic with primary complaints of menstrual dysfunction, infertility and hirsutism were evaluated. The women were diagnosed according to Rotterdam criteria and two hundred forty-nine women with clinical diagnosis were recruited for the study. Age-matched healthy women were recruited in the study as controls. Different clinical and anthropometric parameters were

Review | [Open access](#) | Published: 20 November 2019



# Hyperandrogenism in polycystic ovarian syndrome and role of *CYP* gene variants: a review

Sairish Ashraf, Mudasar Nabi, Shayaq ul Abeer Rasool, Fouzia Rashid & Shajrul Amin *Egyptian Journal of Medical Human Genetics* 20, Article number: 25 (2019) | [Cite this article](#)50k Accesses | 75 Citations | 25 Altmetric | [Metrics](#)

## Abstract

### Background

Polycystic ovary syndrome (PCOS) is a multifactorial endocrine disorder characterized by anovulation, hyperandrogenism, and polycystic ovarian morphology. The pathophysiology of

[Download PDF](#) **Sections**[Figures](#)[References](#)[Abstract](#)[Background](#)[View PDF](#) [PCOS and hyperandrogenism](#)[Clinical features of hyperandrogenism](#)[Steroid metabolism](#)[CYP genes in PCOS](#)[Conclusion](#)[Save](#)[Email](#)[Send to](#)[Display options](#) [Diabetes Metab Syndr.](#) 2019 May-Jun;13(3):2098-2105. doi: 10.1016/j.dsx.2019.05.003.

Epub 2019 May 7.

## Elevated fasting insulin is associated with cardiovascular and metabolic risk in women with polycystic ovary syndrome

Shayaq Ul Abeer Rasool <sup>1</sup>, Sairish Ashraf <sup>2</sup>, Mudasar Nabi <sup>3</sup>, Fouzia Rashid <sup>4</sup>, Khalid Majid Fazili <sup>5</sup>, Shajrul Amin <sup>6</sup>Affiliations [+ expand](#)PMID: 31235143 DOI: [10.1016/j.dsx.2019.05.003](#)

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> [Diabetes Metab Syndr.](#) 2019 May-Jun;13(3):1957-1961. doi: 10.1016/j.dsx.2019.04.032.  
Epub 2019 Apr 23.

## Evaluation of antioxidant defense markers in relation to hormonal and insulin parameters in women with polycystic ovary syndrome (PCOS): A case-control study

Qudsia Fatima<sup>1</sup>, Shajrul Amin<sup>2</sup>, Iram Ashaq Kawa<sup>1</sup>, Humira Jeelani<sup>1</sup>, Saika Manzoor<sup>1</sup>,  
Syeed Masuma Rizvi<sup>3</sup>, Fouzia Rashid<sup>4</sup>

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PMID: 31225121 DOI: 10.1016/j.dsx.2019.04.032

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> [Sci Rep.](#) 2023 Jun 22;13(1):10134. doi: 10.1038/s41598-023-35646-y.

## LC-MS/MS based characterisation and differential expression of proteins in Himalayan snow trout, *Schizothorax labiatus* using LFQ technique

Kousar Jan<sup>1</sup>, Imtiaz Ahmed<sup>2</sup>, Nazir Ahmad Dar<sup>3</sup>, Mohammad Abul Farah<sup>4</sup>, Fatin Raza Khan<sup>5</sup>,  
Basit Amin Shah<sup>6</sup>, Francesco Fazio<sup>7</sup>

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PMID: 37349327 PMCID: PMC10287682 DOI: 10.1038/s41598-023-35646-y

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# The role of sex, season and reproduction status on blood parameters in snow trout (Schizothorax labiatus) from River Jhelum, Kashmir, India

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Kousar Jan <sup>1</sup>, Imtiaz Ahmed <sup>2</sup>, Nazir Ahmad Dar <sup>3</sup>

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PMID: 35972574 DOI: 10.1007/s10661-022-10250-1

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> Saudi J Biol Sci. 2022 Apr;29(4):2921-2925. doi: 10.1016/j.sjbs.2022.01.022. Epub 2022 Jan 15.

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Nighat Un Nissa <sup>1</sup>, Masarat Jan <sup>2</sup>, Javeed Ahmad Tantray <sup>3</sup>, Nazir Ahmad Dar <sup>4</sup>, Arizo Jan <sup>5</sup>, Fayaz Ahmad <sup>1</sup>, Bilal Ahamad Paray <sup>6</sup>, Aneela Gulnaz <sup>7</sup>

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PMID: 35531143 PMCID: PMC9073024 DOI: 10.1016/j.sjbs.2022.01.022

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### Effects of dietary isoleucine on growth performance, enzymatic activities, antioxidant properties and expression of TOR related genes in rainbow trout, *Oncorhynchus mykiss* fingerlings

Ishtiyag Ahmad, Imtiaz Ahmed , Nazir A. DarFirst published: 28 January 2022 | <https://doi.org/10.1111/are.15755>

#### Funding information

This study was supported by the Department of Biotechnology (DBT), Government of India, New Delhi, under the project on nutrient requirement of trout fingerlings (Grant No. BT/PR10573/AAQ/3/654/2013).

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Epub 2022 Oct 25.

## Insights into molecular docking and dynamics to reveal therapeutic potential of natural compounds against P53 protein

Bashir Ahmad Malla <sup>1</sup>, Aarif Ali <sup>2</sup>, Irfan Maqbool <sup>3</sup>, Nazir Ahmad Dar <sup>1</sup>, Sheikh Bilal Ahmad <sup>4</sup>, Rana M Alsaffar <sup>5</sup>, Muneeb U Rehman <sup>6</sup>

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> [Sci Rep. 2023 Jun 22;13\(1\):10134. doi: 10.1038/s41598-023-35646-y.](#)

## LC-MS/MS based characterisation and differential expression of proteins in Himalayan snow trout, *Schizothorax labiatus* using LFQ technique

Kousar Jan <sup>1</sup>, Imtiaz Ahmed <sup>2</sup>, Nazir Ahmad Dar <sup>3</sup>, Mohammad Abul Farah <sup>4</sup>, Fatin Raza Khan <sup>5</sup>, Basit Amin Shah <sup>6</sup>, Francesco Fazio <sup>7</sup>

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## Prevalence of alcohol dehydrogenase 1B and aldehyde dehydrogenase 2 genotypes in Kashmir, an Asian high-risk region of esophageal squamous cell carcinoma

May 2022 · Human Gene 33(1):201042

33(1):201042

DOI: [10.1016/j.humgen.2022.201042](#)

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PMID: 32487238 PMCID: PMC7268327 DOI: 10.1186/s12885-020-06991-2

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> J Cancer Res Ther. 2020 Dec;16(Supplement):S156-S159. doi: 10.4103/jcrt.JCRT\_613\_19.

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## LRFN2 gene variant rs2494938 provides susceptibility to esophageal cancer in the population of Jammu and Kashmir

Ruchi Shah <sup>1</sup>, Varun Sharma <sup>1</sup>, Hemender Singh <sup>1</sup>, Indu Sharma <sup>1</sup>, Gulzar Ahmed Bhat <sup>2</sup>, Idrees Ayoub Shah <sup>2</sup>, Beenish Iqbal <sup>2</sup>, Rumisa Rafiq <sup>2</sup>, Najma Nissa <sup>2</sup>, Mansha Muzaffar <sup>2</sup>, Malik Tariq Rasool <sup>3</sup>, Ghulam Nabi Lone <sup>4</sup>, Sandeep Kaul <sup>5</sup>, Mohd Maqbool Lone <sup>3</sup>, Ekta Rai <sup>1</sup>, Nazir Ahmed Dar <sup>2</sup>, Swarkar Sharma <sup>1</sup>

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## Strenuous occupational physical activity: Potential association with esophageal squamous cell carcinoma risk

[Idrees Ayoub Shah](#), [Gulzar Ahmad Bhat](#), [...], and [Nazir Ahmad Dar](#) [View all authors and affiliations](#)
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[> Nutr Cancer](#). 2019;71(5):806-817. doi: 10.1080/01635581.2018.1484934. Epub 2019 Jan 11.

## Association of Activity Altering Genotypes - Tyr113His and His139Arg in Microsomal Epoxide Hydrolase Enzyme with Esophageal Squamous Cell Carcinoma

[Sumaiya Nabi](#)<sup>1</sup>, [Gulzar Ahmad Bhat](#)<sup>1</sup>, [Beenish Iqbal](#)<sup>1</sup>, [Mohd Maqbool Lone](#)<sup>2</sup>, [Ghulam Nabi Lone](#)<sup>3</sup>, [Maroof Ahmad Khan](#)<sup>4</sup>, [Nazir Ahmad Dar](#)<sup>1</sup>
Affiliations [+ expand](#)PMID: 30633570 DOI: [10.1080/01635581.2018.1484934](https://doi.org/10.1080/01635581.2018.1484934)

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> [J Cell Commun Signal](#). 2023 Sep;17(3):689-704. doi: 10.1007/s12079-022-00708-9.  
Epub 2022 Nov 15.

## Lipin-1 stability and its adipogenesis functions are regulated in contrasting ways by AKT1 and LKB1

Misbah Un Nisa <sup>1</sup>, Syed Qaafah Gillani <sup>1</sup>, Nusrat Nabi <sup>1</sup>, Zarka Sarwar <sup>1</sup>, Irfana Reshi <sup>2</sup>, Sameer Ahmed Bhat <sup>2</sup>, Shaida Andrabi <sup>3</sup>

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PMID: 36380131 PMCID: PMC10409976 DOI: 10.1007/s12079-022-00708-9

### Abstract

Lipin-1 is a protein that plays a critical role in many cellular functions. At molecular level, it acts as a

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> [J Cell Sci](#). 2022 Feb 1;135(3):jcs.258831. doi: 10.1242/jcs.258831. Epub 2022 Feb 9.

## PCTAIRE1 promotes mitotic progression and resistance against antimitotic and apoptotic signals

Syed Qaafah Gillani <sup>1</sup>, Irfana Reshi <sup>2</sup>, Nusrat Nabi <sup>1</sup>, Misbah Un Nisa <sup>1</sup>, Zarka Sarwar <sup>1</sup>, Sameer Bhat <sup>2</sup>, Thomas M Roberts <sup>3</sup>, Jonathan M G Higgins <sup>4</sup>, Shaida Andrabi <sup>1</sup>

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PMID: 35044463 PMCID: PMC8918779 DOI: 10.1242/jcs.258831

### Abstract

PCTAIRE1 (also known as CDK16) is a serine-threonine kinase implicated in physiological processes like neuronal development, vesicle trafficking, spermatogenesis and cell proliferation. However, its

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> [J Biol Chem](#). 2022 Feb;298(2):101496. doi: 10.1016/j.jbc.2021.101496. Epub 2021 Dec 16.

## Interaction of DBC1 with polyoma small T antigen promotes its degradation and negatively regulates tumorigenesis

Zarka Sarwar<sup>1</sup>, Nusrat Nabi<sup>1</sup>, Sameer Ahmed Bhat<sup>1</sup>, Syed Qaaifah Gillani<sup>1</sup>, Irfana Reshi<sup>1</sup>, Misbah Un Nisa<sup>1</sup>, Guillaume Adelmant<sup>2</sup>, Jarrod A Marto<sup>2</sup>, Shaida Andrabi<sup>3</sup>

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PMID: 34921839 PMCID: PMC8784333 DOI: 10.1016/j.jbc.2021.101496

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> [Cell Signal](#). 2021 Sep;85:110032. doi: 10.1016/j.cellsig.2021.110032. Epub 2021 Apr 29.

## Regulation of PCTAIRE1 protein stability by AKT1, LKB1 and BRCA1

Syed Qaaifah Gillani<sup>1</sup>, Misbah Un Nisa<sup>1</sup>, Zarka Sarwar<sup>1</sup>, Irfana Reshi<sup>2</sup>, Sameer Ahmed Bhat<sup>2</sup>, Nusrat Nabi<sup>1</sup>, Shaida Andrabi<sup>3</sup>

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PMID: 33932497 DOI: 10.1016/j.cellsig.2021.110032

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PCTAIRE1, also known as CDK16, is a cyclin-dependent kinase that is regulated by cyclin Y. It is a member of the serine-threonine family of kinases and its functions have primarily been implicated in

Review > Eur J Med Chem. 2024 Feb 5;265:116056. doi: 10.1016/j.ejmech.2023.116056.

Epub 2023 Dec 16.

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## Plasmodium falciparum topoisomerases: Emerging targets for anti-malarial therapy

Ashraf Dar<sup>1</sup>, Priya Godara<sup>2</sup>, Dhaneswar Prusty<sup>2</sup>, Masarat Bashir<sup>3</sup>

Affiliations: [+ expand](#)

PMID: 38171145 DOI: 10.1016/j.ejmech.2023.116056

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Different metabolic pathways like DNA replication, transcription, and recombination generate topological constraints in the genome. These topological constraints are resolved by essential



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## Isolation, bioevaluation and RP-HPLC method development for the chemical constituents of aerial parts of *Scutellaria prostrata* Jacq. ex Benth

Gulzar Bhat<sup>a,b,\*</sup>, Shabir H. Lone<sup>c</sup>, Muzafar Ahmad Rather<sup>a</sup>, Abdul S. Shawl<sup>a</sup>

<sup>a</sup> Natural Products Chemistry Division, CSIR-Indian Institute of Integrative Medicine, Srinagar, Kashmir 190005, India

<sup>b</sup> Department of Biochemistry, University of Kashmir, Srinagar, Kashmir 190006, India

<sup>c</sup> Department of Chemistry, GDC Pampore, J&K 192121, India





> J Virol. 2020 Jul 1;94(14):e02187-19. doi: 10.1128/JVI.02187-19. Print 2020 Jul 1.

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## Polyomavirus Small T Antigen Induces Apoptosis in Mammalian Cells through the UNC5B Pathway in a PP2A-Dependent Manner

Sameer Ahmed Bhat<sup>1</sup>, Zarka Sarwar<sup>2</sup>, Syed Qaafah Gillani<sup>2</sup>, Misbah Un Nisa<sup>2</sup>, Irfana Reshi<sup>1</sup>, Nusrat Nabi<sup>2</sup>, Shaozhen Xie<sup>3</sup>, Khalid M Fazili<sup>1</sup>, Thomas M Roberts<sup>3</sup>, Shaida Andrabi<sup>4</sup>

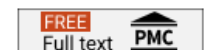
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PMID: 32404521 PMCID: PMC7343204 DOI: 10.1128/JVI.02187-19

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> J Cell Commun Signal. 2019 Mar;13(1):121-127. doi: 10.1007/s12079-018-0485-z. Epub 2018 Aug 6.

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## A network map of netrin receptor UNC5B-mediated signaling

Sameer Ahmed Bhat<sup>1</sup>, Sumrati Gurtoo<sup>2</sup>, Sayali Chandrashekhar Deolankar<sup>2</sup>, Khalid Majid Fazili<sup>1</sup>, Jayshree Advani<sup>3,4</sup>, Rohan Shetty<sup>5</sup>, T S Keshava Prasad<sup>2,3,4</sup>, Shaida Andrabi<sup>6</sup>, Yashwanth Subbannaya<sup>7</sup>

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PMID: 30084000 PMCID: PMC6381369 DOI: 10.1007/s12079-018-0485-z

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UNC-5 Homolog B (UNC5B) is a member of the dependence receptor family. This family of receptors

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> Mol Cell Biol. 2020 Apr 28;40(10):e00366-18. doi: 10.1128/MCB.00366-18. Print 2020 Apr 28.

## AKT Regulates Mitotic Progression of Mammalian Cells by Phosphorylating MASTL, Leading to Protein Phosphatase 2A Inactivation

Irfana Reshi<sup>1</sup>, Misbah Un Nisa<sup>2</sup>, Umer Farooq<sup>1</sup>, Syed Qaifiah Gillani<sup>2</sup>, Sameer Ahmed Bhat<sup>1</sup>, Zarka Sarwar<sup>2</sup>, Nusrat Nabi<sup>2</sup>, Khalid Majid Fazili<sup>1</sup>, Shaida Andrabi<sup>3</sup>

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PMID: 32123010 PMCID: PMC7189101 DOI: 10.1128/MCB.00366-18

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Review > Infect Genet Evol. 2021 Sep;93:104987. doi: 10.1016/j.meegid.2021.104987.

Epub 2021 Jun 30.

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Dhaneswar Prusty<sup>1</sup>, Nidhi Gupta<sup>2</sup>, Arun Upadhyay<sup>2</sup>, Ashraf Dar<sup>3</sup>, Biswajit Naik<sup>2</sup>, Navin Kumar<sup>4</sup>, Vijay Kumar Prajapati<sup>2</sup>

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PMID: 34216796 DOI: 10.1016/j.meegid.2021.104987

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## Exploring the mTOR Signalling Pathway and Its Inhibitory Scope in Cancer

[Suhail Ahmad Mir](#)<sup>1</sup>, [Ashraf Dar](#)<sup>2</sup>, [Saad Ali Alshehri](#)<sup>3</sup>, [Shadma Wahab](#)<sup>3</sup>, [Laraibah Hamid](#)<sup>4</sup>,  
[Mohammad Ali Abdullah Almoayad](#)<sup>5</sup>, [Tabasum Ali](#)<sup>1</sup> and [Ghulam Nabi Bader](#)<sup>1,\*</sup>

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doi: [10.1016/j.crphar.2023.100167](#). eCollection 2024.

## Flavonoids as promising molecules in the cancer therapy: An insight

[Suhail Ahmad Mir](#)<sup>1</sup>, [Ashraf Dar](#)<sup>2</sup>, [Laraibah Hamid](#)<sup>3</sup>, [Nasir Nisar](#)<sup>1</sup>, [Jonaid Ahmad Malik](#)<sup>4</sup>,  
[Tabasum Ali](#)<sup>1</sup>, [Ghulam Nabi Bader](#)<sup>1</sup>

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PMID: 38144883 PMCID: PMC10733705 DOI: [10.1016/j.crphar.2023.100167](#)

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Cancer continues to increase global morbidity and mortality rates. Despite substantial progress in the



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> Sci Rep. 2021 Nov 11;11(1):22089. doi: 10.1038/s41598-021-01142-4.

# Dietary valine improved growth, immunity, enzymatic activities and expression of TOR signaling cascade genes in rainbow trout, *Oncorhynchus mykiss* fingerlings

Ishtiyaq Ahmad <sup>1</sup>, Imtiaz Ahmed <sup>2</sup>, Nazir A Dar <sup>3</sup>

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PMID: 34764336 PMCID: PMC8585866 DOI: 10.1038/s41598-021-01142-4

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Observational Study > J Gastrointest Cancer. 2021 Jun;52(2):696-700.

doi: 10.1007/s12029-020-00455-3.

# ABO Blood Group and the Risk of Esophageal Squamous Cell Carcinoma in Kashmir, a High Risk Region

Malik Tariq Rasool <sup>1</sup>, Ashfaq Hafiz <sup>2</sup>, Saquib Zaffar Banday <sup>3</sup>, Ishtiyaq Ahmad Dar <sup>2</sup>, Shareefa Akhter <sup>4</sup>, Mohd Zubair Qureshi <sup>5</sup>, Sajad Geelani <sup>6</sup>, Nazir Ahmad Dar <sup>7</sup>

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