CURRICULUM VITAE

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WORK & EDUCATION

2020-present	Director and D Balasubramanian Chair of Eye Research	L V Prasad Eye Institute, Hyderabad, INDIA
2018-present	Virender Sangwan Distinguished Chair of Regenerative Ophthalmology	L V Prasad Eye Institute, Hyderabad, INDIA
2018-present	Director of Centre for Ocular Regeneration	L V Prasad Eye Institute, Hyderabad, INDIA
2016-present	Adjunct Associate Professor of Ophthalmology	School of Medicine and Dentistry, University of Rochester, NY, USA
2012-2013	Research Associate	Department of Ophthalmology, University of Pittsburgh School of Medicine, PA, USA
2010-present	Consultant Ophthalmologist and Scientist	L V Prasad Eye Institute, Hyderabad, INDIA
2008-2010	Eyesight International Long-term Fellow in Cornea and Anterior Segment	L V Prasad Eye Institute, Hyderabad, INDIA
2005-2008	Junior Resident in Ophthalmology	Regional Institute of Ophthalmology, West Bengal University of Health Sciences, Kolkata, INDIA
2003-2004	Intern in Medicine and Surgery	R G Kar Medical College, Kolkata, INDIA
1998-2003	Bachelor of Medicine & Bachelor of Surgery, MBBS (Honours in Ophthalmology)	R G Kar Medical College, University of Calcutta, Kolkata, INDIA

HONOURS, GRANTS, AWARDS & SCHOLARSHIPS

2020-2022	Co-PI, Evaluating the potential role ocular bacterial microbiome and the lysophospholipid composition of tears in mitigating meibomian gland dysfunction in dry eyes	SERB, DST, GoI (35.6L, 3-years)
2019-2021	PI, Improving corneal healing via modulation of tissue biomechanics	The Ulverscroft Foundation Vision Research Grant 110L
2018-2021	Co-PI, Limbal stem cell transplantation: corneal epithelial wound healing and regeneration in animal model of alkali burn	Core Research Grant, SERB, DST, GoI (40-50L, 3-years)
2018-2021	PI-3D Bioprinting and remodeling of corneal stroma and epithelium for Keratoplasty	Bio-engineering task-force, DBT, GoI (1Cr, 3 -yrs)
2018-2021	PI, Preservation and Transportation of Human Limbus-derived Stromal/ Mesenchymal Stem Cells	Core Research Grant, SERB, DST, GoI (36L, 3-years)
2013-2017	Co-PI, RHCIII Biosynthetic Cornea Project	DBT Vinnova, Indo-Swedish Research Cooperation
2010-2015	Co-PI, PLGA Scaffold for the cultivation of human limbal epithelial cells	Welcome Trust, Indo-UK Research Grant
2016	Achievement Award	American Academy of Ophthalmology
2016	Young Achiever Award	Vidharbha Ophthalmic Society
2015	Achievement Award	American Academy of Ophthalmology
2011	Travel Grant	Louis J Fox Center for Vision Restoration

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ORIGINAL CONTRIBUTIONS & INNOVATIONS

2019	Lux Keratoprosthesis for previously incurable corneal blindness	Co-developer with James Chodosh, MEEI
2016	Customized Stem Cells for Corneal Pathologies	Co-developer with Vivek Singh, LVPEI
2014	Mesenchymaal/Stromal Stem Cell Therapy for Corneal Pathologies	Co-developer with James Funderburgh, UPMC and Vivek Singh, LVPEI
2012	LVP Keratoprosthesis: A Novel Keratoprosthesis for Bilateral End Stage Corneal Blindness	Co-developer with AuroLab, Madurai
2010	Simple Limbal Epithelial Transplantation (SLET): A Novel Technique for Limbal Stem Cell Transplantation for Ocular Burns	Co-developer with Virender Sangwan, LVPEI
2010	Understanding the Mechanisms of Acute Corneal Hydrops and it's Healing	Original discovery selected in F1000

PATENTS

2019	WO2019180568	Decellularized Corneal Matrix Based Hydrogel, Bioink Formulation and Methods Thereof
2018	WO2019211873	A Liquid Cornea Composition
2018	WO2019211874	A Liquid Cornea Hydrogel Composition
2017	WO2018225042	Cell Composition, Method of Production and Its Use in Corneal Diseases

PROFESSIONAL APPOINTMENTS & MEMBERSHIPS

2020-present	Editorial Board	Seminars of Ophthalmology
2020-present	Editorial Board	The Ocular Surface
2017-present	Section Editor, Cornea	Current Eye Research Journal
2017-present	Member, Steering Committee	International Kpro Study Group
2017-present	Section Editor, Ocular Surface	Indian Journal of Ophthalmology
2016-present	Section Editor, Cornea	British Journal of Ophthalmology
2015-present	Life-member	Cornea Society of India
2011-present	Member	Association of Research in Vision and Ophthalmology
2011-2017	Member	International Ocular Surface Society
2011-present	Member	American Academy of Ophthalmology
2010-present	Life Member	All India Ophthalmological Society

PROFESSIONAL COURSES AND TEACHING

2019	Visiting Professor	Bascom Palmer Eye Institute, Miami, FL, USA
2018	Instructor, Ocular Surface Wet-Lab	AAO 2018, Chicago, USA
2018	Organizer, SLET Workshop	L V Prasad Eye Institute, Hyderabad, INDIA
2017	Organizer, Ocular Surface Workshop 4	L V Prasad Eye Institute, Hyderabad, INDIA
2017	Instructor, Ocular Surface Wet-Lab	AAO 2017, New Orleans, USA
2016	Organizer, Ocular Surface Workshop 3	L V Prasad Eye Institute, Hyderabad, INDIA
2016	Mentor, KPro and SLET Workshop	Uppsala, Sweden
2016	Mentor, Ocular Surface Course	APEC, Mexico City, Mexico
2015	Mentor, Ocular Surface Course	Conde de Valenciana, Mexico City, Mexico
2015	Organizer, Ocular Surface Workshop 2	L V Prasad Eye Institute, Hyderabad, INDIA
2014	Organizer, Ocular Surface Workshop 1	L V Prasad Eye Institute, Hyderabad, INDIA
2013	Visiting Professor	Massachusetts Eye and Ear Infirmary, Boston, MA, USA

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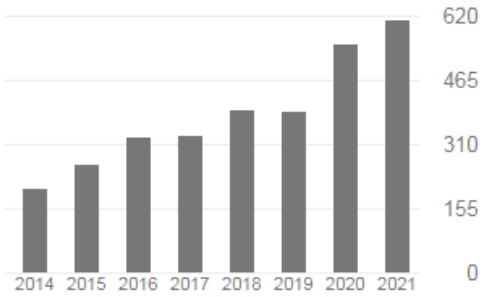
Cited by		VIEW ALL
	All	Since 2016
Citations	3301	2618
h-index	29	26
i10-index	59	56



SELECTED ORIGINAL PEER REVIEWED PUBLICATIONS (**h-index:** 29; **i10 index:** 59),
https://scholar.google.com/citations?user=Y3hO_C0AAAAJ&hl=en

1. Koduri MA, Prasad D, Upadhyaya S, Jaffet J, Shanbhag SS, **Basu S**, Singh V. Differential expression of tear film cytokines in Stevens-Johnson syndrome patients and comparative review of literature**. Sci Rep**. 2021 Sep 16;11(1):18433.
2. Singh S, Naidu GC, Vemuganti G, **Basu S**. Morphological variants of meibomian glands: correlation of meibography features with histopathology findings. Br J Ophthalmol. 2021 Aug 20:bjophthalmol-2021-318876.
3. Ramachandran C, Deshpande P, Ortega I, Sefat F, McKean R, Srivastava M, MacNeil S, **Basu S**, Sangwan VS. Proof-of-concept study of electrospun PLGA membrane in the treatment of limbal stem cell deficiency. **BMJ Open Ophthalmol**. 2021 Jul 26;6(1):e000762.
4. Varma S, Shanbhag SS, Donthineni PR, Mishra DK, Singh V, **Basu S**. High-Resolution Optical Coherence Tomography Angiography Characteristics of Limbal Stem Cell Deficiency. **Diagnostics** (Basel). 2021 Jun 21;11(6):1130.
5. Donthineni PR, Varma S, Kethiri A, Shanbhag S, Mishra DK, Singh V, **Basu S**. Histopathological Characteristics of Limbal Stem Cell Deficiency Secondary to Chronic Vernal Keratoconjunctivitis. **Cornea**. 2021 Jun 9.
6. Das AV, **Basu S**. Environmental and Air Pollution Factors Affecting Allergic Eye Disease in Children and Adolescents in India. **Int J Environ Res Public Health**. 2021 May 24;18(11):5611.
7. Kacham S, Bhure TS, Eswaramoorthy SD, Naik G, Rath SN, Parcha SR, **Basu S**, Sangwan VS, Shukla S. Human Umbilical Cord-Derived Mesenchymal Stem Cells Promote Corneal Epithelial Repair In Vitro. **Cells**. 2021 May 19;10(5):1254.
8. Singh S, **Basu S**. A novel diagnostic technique of measuring labial minor salivary gland secretions using sodium fluorescein dye: Implications for patients with dry eyes. **Semin Ophthalmol**. 2021 May 16:1-6.
9. Chandru A, Agrawal P, Ojha SK, Selvakumar K, Shiva VK, Gharat T, Selvam S, Thomas MB, Damala M, Prasad D, **Basu S**, Bhowmick T, Sangwan VS, Singh V. Human Cadaveric Donor Cornea Derived Extra Cellular Matrix Microparticles for Minimally Invasive Healing/Regeneration of Corneal Wounds. **Biomolecules**. 2021 Apr 2;11(4):532.
10. Singh S, Jakati S, Shanbhag SS, Elhusseiny AM, Djalilian AR, **Basu S**. Lid margin keratinization in Stevens-Johnson syndrome: Review of pathophysiology and histopathology. **Ocul Surf**. 2021 Jul;21:299-305.
11. Singh S, Sharma S, **Basu S**. Rabbit models of dry eye disease: Current understanding and unmet needs for translational research. **Exp Eye Res**. 2021 May;206:108538.
12. Thokala P, Singh A, Singh VK, Rathi VM, **Basu S**, Singh V, MacNeil S, Sangwan VS. Economic, clinical and social impact of simple limbal epithelial transplantation for limbal stem cell deficiency. **Br J Ophthalmol**. 2021 Mar 9:bjophthalmol-2020-318642.
13. Kethiri AR, Singh VK, Damala M, **Basu S**, Rao CM, Bokara KK, Singh V. Long term observation of ocular surface alkali burn in rabbit models: Quantitative analysis of corneal haze, vascularity and self-recovery. **Exp Eye Res**. 2021 Apr;205:108526.
14. Singh S, Shanbhag SS, **Basu S**. Tear secretion from the lacrimal gland: variations in normal versus dry eyes. **Br J Ophthalmol.** 2021 Feb 17:bjophthalmol-2020-318159. doi: 10.1136/bjophthalmol-2020-318159.
15. Shanbhag SS, Koduri MA, Kannabiran C, Donthineni PR, Singh V, **Basu S**. Genetic Markers for Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis in the Asian Indian Population: Implications on Prevention. **Front Genet**. 2021 Jan 12;11:607532. doi: 10.3389/fgene.2020.607532.
16. Shanbhag SS, Singh S, Koshy PG, Donthineni PR, **Basu S**. A beginner's guide to mucous membrane grafting for lid margin keratinization: Review of indications, surgical technique and clinical outcomes. **Indian J Ophthalmol**. 2021 Jan 28. doi: 10.4103/ijo.IJO_1273_20.
17. Singh S, Das AV, **Basu S**. Ocular Involvement in Sjogren's Syndrome: Risk Factors for Severe Visual Impairment and Vision-Threatening Corneal Complications. **Am J Ophthalmol**. 2020 Dec 29:S0002-9394(20)30677-2.
18. Vazirani J, Donthineni PR, Goel S, Sane SS, Mahuvakar S, Narang P, Shanbhag SS, **Basu S**. Chronic cicatrizing conjunctivitis: A review of the differential diagnosis and an algorithmic approach to management. **Indian J Ophthalmol**. 2020 Nov;68(11):2349-2355.

19. Donthineni PR, Das AV, Shanbhag SS, **Basu S**. Cataract Surgery in Dry Eye Disease: Visual Outcomes and Complications. **Front Med (Lausanne)**. 2020 Oct 7;7:575834.
20. Vazirani J, Bhalekar S, Amescua G, Singh S, **Basu S**. Minor salivary gland transplantation for severe dry eye disease due to cicatrising conjunctivitis: multicentre long-term outcomes of a modified technique. **Br J Ophthalmol**. 2020 Sep 16:bjophthalmol-2020-316611.
21. Singh S, Shanbhag SS, **Basu S**. Palpebral lobe of the human lacrimal gland: morphometric analysis in normal versus dry eyes. **Br J Ophthalmol**. 2020 Sep 12:bjophthalmol-2020-316929.
22. Singh S, Mishra DK, Shanbhag S, Vemuganti G, Singh V, Ali MJ, **Basu S**. Lacrimal Gland Involvement in Severe Dry Eyes after Stevens-Johnson Syndrome. **Ophthalmology**. 2020 Aug 21:S0161-6420(20)30834-4.
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24. Vazirani J, Shukla S, Chhawchharia R, Sahu S, Gokhale N, **Basu S**. Allergic conjunctivitis in children: current understanding and future perspectives. **CurrOpin Allergy Clin Immunol**. 2020 Oct;20(5):507-515.
25. Joshi VP, Vaishnavi K S, Ojha SK, Singh V, **Basu S**. A reliable animal model of corneal stromal opacity: Development and validation using in vivo imaging. **Ocul Surf**. 2020 Oct;18(4):681-688.
26. Shanbhag SS, Shah S, Singh M, Bahuguna C, Donthineni PR, **Basu S**. Lid-Related Keratopathy in Stevens-Johnson Syndrome: Natural Course and Impact of Therapeutic Interventions in Children and Adults. **Am J Ophthalmol**. 2020 Nov;219:357-365.
27. Shanbhag SS, Senthil S, Mohamed A, **Basu S**. Outcomes of the Boston type 1 and the Aurolab keratoprosthesis in eyes with limbal stem cell deficiency. **Br J Ophthalmol**. 2020 Jun 17:bjophthalmol-2020-316369.
28. Singh S, **Basu S**. The Human Lacrimal Gland: Historical Perspectives, Current Understanding, and Recent Advances. **Curr Eye Res**. 2020 Oct;45(10):1188-1198.
29. Das AV, **Basu S**. Indications and prognosis for keratoplasty in eyes with severe visual impairment and blindness due to corneal disease in India. **Br J Ophthalmol**. 2020;bjophthalmol-2019-315361.
30. Serna-Ojeda JC, **Basu S**, Vazirani J, Garfias Y, Sangwan VS. Systemic Immunosuppression for Limbal Allograft and Allogenic Limbal Epithelial Cell Transplantation. **Med Hypothesis DiscovInnov Ophthalmol. 2020**;9(1):23–32.
31. Damala M, Swioklo S, Koduri MA, Mitragotri NS, **Basu S**, Connon CJ, Singh V.. Encapsulation of human limbus-derived stromal/mesenchymal stem cells for biological preservation and transportation in extreme Indian conditions for clinical use. **Sci Rep. 2019**;9(1):16950. Published 2019 Nov 18. doi:10.1038/s41598-019-53315-x
32. Design and Outcomes of a Novel Keratoprosthesis: Addressing Unmet Needs in End-Stage Cicatricial Corneal Blindness . **Cornea. 2019**;10.1097/ICO.0000000000002207.
33. Shanbhag SS, Chanda S, Donthineni PR, Sane SS, Priyadarshini SR, **Basu S**. Clinical clues predictive of Stevens-Johnson syndrome as the cause of chronic cicatrising conjunctivitis. **Br J Ophthalmol. 2019**;bjophthalmol-2019-314928.
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35. Shukla S, Shanbhag SS, Tavakkoli F, Varma S, Singh V, **Basu S**. Limbal Epithelial and Mesenchymal Stem Cell Therapy for Corneal Regeneration . **Curr Eye Res. 2019**;1–13.
36. Shanbhag SS, Nikpoor N, Rao Donthineni P, Singh V, Chodosh J, **Basu S**. Autologous limbal stem cell transplantation: a systematic review of clinical outcomes with different surgical techniques. **Br J Ophthalmol.** 2019.
37. Kethiri AR, Raju E, Kumar BK, Mishra DK, **Basu S**, Rao CM, Sangwan VS, Singh V. Inflammation, vascularization and goblet cell differences in LSCD: Validating animal models of corneal alkali burns. **Exp Eye Res. 2019** May 13.
38. Shanbhag SS, Patel CN, Goyal R, Donthineni PR, Singh V, Basu S. Simple limbal epithelial transplantation (SLET): Review of indications, surgical technique, mechanism, outcomes, limitations, and impact. **Indian J Ophthalmol. 2019**;67(8):1265–1277.
39. **Basu S**, Serna-Ojeda JC, Senthil S, Pappuru RR, Bagga B, Sangwan V. The auroKPro versus the Boston type I Keratoprosthesis: 5-year Clinical Outcomes in 134 Cases of Bilateral Corneal Blindness. **Am J Ophthalmol.2019** Mar 21.
40. Rao Donthineni P, Kammari P, Shanbhag SS, Singh V, Das AV, **Basu S**. Incidence, demographics, types and risk factors of dry eye disease in India: Electronic medical records driven big data analytics report I. **Ocul Surf 2019**.
41. Kam KW, Patel CN, Nikpoor N, Yu M, **Basu S**. Limbal ischemia: Reliability of clinical assessment and implications in the management of ocular burns. **Indian J Ophthalmol**. **2019** Jan;67(1):32-36.
42. **Basu S**, Nagpal R, Serna-Ojeda JC, Bhalekar S, Bagga B, Sangwan VS. LVP Keratoprosthesis: Long-term anatomical and functional outcomes in bilateral end-stage corneal blindness. **Br J Ophthalmol 2018**.
43. **Basu S**, Mohan S, Bhalekar S, Singh V, Sangwan V. Simple limbal epithelial transplantation (SLET) in failed cultivated limbal epithelial transplantation (CLET) for unilateral chronic ocular burns. **Br J Ophthalmol. 2018** Feb 16.
44. **Basu S**, Shanbhag SS, Gokani A, Kedar R, Bahuguna C, Sangwan VS. Chronic Ocular Sequelae of Stevens-Johnson Syndrome in Children: Long-term Impact of Appropriate Therapy on Natural History of Disease. **Am J Ophthalmol**. **2018** May;189:17-28.
45. **Basu S**, Bahuguna C, Singh V. Simple limbal epithelial transplantation:Impactful innovation. **Indian J Ophthalmol**. 2018 Jan;66(1):53-54.
46. Kethiri AR, **Basu S**, Shukla S, Sangwan VS, Singh V. Optimizing the role of limbal explant size and source in determining the outcomes of limbal transplantation: An in vitro study. **PLoS One**. 2017 Sep 28;12(9):e0185623.
47. Vazirani J, Mariappan I, Ramamurthy S, Fatima S, **Basu S**, Sangwan VS. Surgical Management of Bilateral Limbal Stem Cell Deficiency. **Ocul Surf**. **2016** Jul;14(3):350-64.

48. **Basu S**, Sureka SP, Shanbhag SS, et al. Simple Limbal Epithelial Transplantation: Long-Term Clinical Outcomes in 125 Cases of Unilateral Chronic Ocular Surface Burns. **Ophthalmology**. **2016** May;123(5):1000-10.
49. Kohanim S, Palioura S, Saeed HN, Akpek EK, Amescua G, **Basu S**, et al. Acute and Chronic Ophthalmic Involvement in Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis - A Comprehensive Review and Guide to Therapy. II.Ophthalmic Disease. **Ocul Surf**. **2016** Apr;14(2):168-88.
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51. Kohanim S, Palioura S, Saeed HN, Akpek EK, Amescua G, **Basu S**, et al.Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis--A Comprehensive Review and Guide to Therapy. I. Systemic Disease. **Ocul Surf**. **2016** Jan;14(1):2-19.
52. Ueta M, Sawai H, Sotozono C, Hitomi Y, Kaniwa N, Kim MK, Seo KY, Yoon KC, Joo CK, Kannabiran C, Wakamatsu TH, Sangwan V, Rathi V, **Basu S**, et al. IKZF1, a new susceptibility gene for cold medicine-related Stevens-Johnson syndrome/toxic epidermal necrolysis with severe mucosal involvement. **J Allergy Clin Immunol. 2015** Jun;135(6):1538-45.e17.
53. **Basu S**, Hertsenberg AJ, Funderburgh ML, et al. Human limbal biopsy-derived stromal stem cells prevent corneal scarring. **Sci Transl Med**. **2014** Dec 10;6(266):266ra172.
54. Sati A, **Basu S**, Sangwan VS, Vemuganti GK. Correlation between the histological features of corneal surface pannus following ocular surface burns and the final outcome of cultivated limbal epithelial transplantation. **Br J Ophthalmol. 2015** Apr;99(4):477-81.
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57. Vazirani J, **Basu S**, Kenia H, et al. Unilateral partial limbal stem cell deficiency: contralateral versus ipsilateral autologous cultivated limbal epithelial transplantation. **Am J Ophthalmol**. **2014** Mar;157(3):584-90.e1-2.
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64. Aldave AJ, Sangwan VS, **Basu S**, et al. International results with the Boston type I keratoprosthesis. **Ophthalmology. 2012** Aug;119(8):1530-8.
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67. **Basu S**, Vaddavalli PK, Vemuganti GK, Ali MH, Murthy SI. Anterior segment optical coherence tomography features of acute corneal hydrops. **Cornea**. 2012 May;31(5):479-85.
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REFEREES

Gullapalli N Rao, Founder Chairman**,** L V Prasad Eye Institute, Hyderabad, Telangana, INDIA**;** gnrao@lvpei.org

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