

Professor S. C. Lakhotia

Name: **Professor Subhash Chandra Lakhotia**
Designation: **BHU Distinguished Professor (Lifetime) and SERB Distinguished Fellow**
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Institution: **Banaras Hindu University, Varanasi**
Date of Birth: **October 04, 1945**
Academic Qualifications: **B. Sc. (Hons.), M. Sc. and Ph.D. (1970) from University of Calcutta, Kolkata, India**
Gender: **Male**

Research/Teaching Experience in various institutions

Research

- **Post-Doctoral Fellow:** Aug. 1970 - July 1971 at Dept. of Zoology, Delhi Univ., (with Prof. S.R.V. Rao)
- **Overseas Scholar of the Royal Exhibition of 1851:** Nov. 1972 to Oct. 1973 at Inst. of Animal Genetics, Edinburgh
- **Research Associate:** Nov. 1973 at the Dept. of Genetics, Univ. of Nijmegen, Holland
- **Fulbright Senior Scholar:** Nov. 1984 to May 1985 at Dept. of Molecular Biology and Biochemistry, Univ. of California, Irvine and at Dept. of Biology, MIT, Cambridge, USA

Teaching

- **Lecturer**, Dept. of Zoology, Burdwan University, Burdwan from Aug. 1971 to May 1972
- **Lecturer**, Dept. of Zoology, Gujarat University, Ahmedabad: from June 1972-Sept. 1976
- **Reader** in Zoology, Banaras Hindu University, Varanasi: from 24 Sept. 1976 to 23 Sept 1984
- **Professor in Zoology, Banaras Hindu University, Varanasi: from 24 Sept. 1984 to 30.06.2011; Dean, Faculty of Science (Nov.20, 2008 – July 27, 2010); Professor Emeritus and DAE-Raja Ramanna Fellow (July 1, 2011-Oct 4, 2015)**
- Course Coordinator, M. Sc. in Molecular & Human Genetics (1999-2004), and Founder Head, Department of Molecular & Human Genetics (Sept. 2004 to Sept. 2007); Dean, Faculty of Science (2009-2010)

Professional Recognition:

1. **DST-Ramanna Fellowship (2009-2012)**
2. **DAE-Raja Ramanna Fellowship (2011-2015)**
3. **B.H.U. Professor Emeritus (2011-2015)**
4. **INSA Senior Scientist (13 Jan. 2016-12 Jan 2019)**
5. **BHU Distinguished Professor (Dec 2016 – lifetime)**
6. **NASI Senior Scientist (13 Jan 2019 – continuing)**
7. **SERB Distinguished Fellow (to commence from April 1, 2019)**

RESEARCH AWARDS & HONORS

1. **Overseas Scholarship of the Royal Commission for the Exhibition of 1851, U.K. (1972)**
2. **Medal for Young Scientists** by Indian National Science Academy, New Delhi (1975)
3. **Career Award in Sciences** by University Grants Commission, New Delhi (1979)
4. **Fulbright Senior Scholar Grant, USA (1984-85)**
5. **National Lecturer:** University Grants Commission (1989)

6. **S.S. Bhatnagar Prize (CSIR) in Biological Sciences (1989)**
7. **Fellow, Indian National Science Academy, New Delhi (1993)**
8. **Fellow, Indian Academy of Sciences, Bangalore (1994)**
9. **J.C. Bose Award in Life Sciences by University Grants Commission, New Delhi (1998)**
10. **Sunder Lal Hora Medal, Indian National Science Academy, New Delhi (2002)**
11. **IXth Professor S. P. Ray-Chaudhuri 75th Birthday Endowment Lecture, Indian Society of Cell Biology (2002).**
12. **Fellow, National Science Academy of India, Allahabad (2002)**
13. **Prof. C.N.R. Rao Education Foundation Award for Excellence in Research at Banaras Hindu University (2007)**
14. **18th G. J. S. Rao Memorial Award Lecture 2011 (Dept. Biochemistry, IISc, Bangalore)**
15. **Indian National Science Academy (New Delhi) Jawaharlal Nehru Birth Centenary Visiting Fellowship 2009**
16. **DST-Ramanna Fellowship (2009-2012)**
17. **DAE-Raja Ramanna Fellowship (2011-2015)**
18. **B.H.U. Professor Emeritus (2011-2015)**
19. **INSA Senior Scientist (2016-)**
20. **BHU Distinguished Professor (2017-)**
21. **B. C. Guha Memorial Lecture, Dept. Biotechnology, Calcutta University, Kolkata (2017)**
22. **Cell Stress Society International (USA) Senior Fellow (2017)**
23. **INSA Aryabhata Medal 2018**
24. **IASTAM Zandu International (Indian Citizen) Award for Excellence in Field of Ayurveda and/or Natural Products Award 2019**
25. **NASI Senior Scientist Platinum Jubilee Fellowship**
26. **SERB Distinguished Fellowship 2019**

Fellowships:

1. **Fellow, Indian National Science Academy, New Delhi (1993)**
2. **Fellow, Indian Academy of Sciences, Bangalore (1994)**
3. **Fellow, National Academy of Sciences India, Allahabad (2002)**
4. **Senior Fellow, Cell Stress Society International, USA (2017)**

Membership of Learned Bodies/Committees

1. Indian Society of Cell Biology: Life Member; Executive Committee Member (1977-78); Joint Secretary (1979-80); Vice-President (1987-88); Secretary (1989-90), President (1997-98)
2. Environmental Mutagen Society of India (Life Member)
3. Genetics Society of America: Emeritus Member
4. RNA Society (USA): Member
5. Indian Society of Developmental Biology (Life Member, Governing Board, 1996-2000; President, 2000-02)
6. Prof. S. P. Ray-Chaudhuri Memorial Foundation (Secretary, 1995-06), President (2007-2012)
7. Cell Stress Society International (Life Member)
8. Society for Scientific Values, India (Life Member)
9. Indian National Science Academy: Member of the Executive Council of (2004-05) and Vice-President (2006), Convenor, INSA Panel for Science Education (2006-10, 2016-) Member, INSA Panel for Science Education (2014-); Vice-President (2014-17)

Membership of Editorial Boards of Research Journals

1. Current Science (1996-2001)

2. Journal of Biosciences, Indian Academy of Sciences & Springer (1999-)
3. RNA Biology, Taylor & Francis (2003-)
4. Cell Stress & Chaperones, Springer(2006-)
5. Annals of Neurosciences, Karger (2009-)
6. Editor-in-Chief, Proceedings of the Indian National Science Academy (2014-2018)
7. Annals of Ayurvedic Medicine (2017-)
8. Integrative Medicine Case Reports (2020-)

Research projects

Completed: 33 specific research projects funded by various national agencies like UGC, INSA, DAE, CSIR, DST, DBT.

In progress: 2 SERB Distinguished Fellowship project and DBT project

Ph. D. Supervision

32 students received Ph.D.; 4 currently working

Current research interests

1. Regulation and functions of the noncoding *hsr ω* gene of *Drosophila*
2. Fly models of neurodegenerative disorders
3. Stress proteins in *Drosophila* tumours
4. *Drosophila* as a model system for studying cellular mode of action of Ayurvedic formulations

Research & other publications

1. Original Research papers: 134
2. Scientific Reviews: 21
3. Full length papers in Symposia proceedings: 13
4. Chapters in books: 11
5. Edited books/special issues of journals: 6
6. Other publications, mostly dealing with issues related to research/education/science policy etc: 96

Major Research Contributions

1. Cellular autonomy of hyperactivity of the single X-chromosome in male *Drosophila*, its faster replication and lack of spreading of hyperactivity to an autosomal segment inserted in the male X chromosome in *Drosophila* (1967-70)
2. Active transcription in heterochromatin in *Drosophila* (1973-74)
3. Temporal order of replication of independent replication units in polytene chromosomes in different cell types of *Drosophila* (1970-90)
4. Existence of two classes of active replicons in *Drosophila* and synchronous firing of all euchromatic replicons in early S-phase in *Drosophila* (1984-1986)
5. Pioneering and life-time contributions to biology of the *hsr ω* long-non-coding RNA gene in *Drosophila* (reviewed in 1989, 2003, 2011, 2017)
 - a) Identification, evolutionary conservation and characterization of **the first non-coding RNA gene (*hsr ω*) in *Drosophila*** (1982)
 - b) Prediction that non-coding RNAs have important roles in cellular regulatory networks (1989, 1996, 1999)
 - c) Identification of *hsr ω* non-coding RNA based Omega speckles in *Drosophila* (2000)
 - d) The lncRNAs in defined speckles and RNA bodies may have a role in sequestering RNA-processing proteins (1999-continuing)
 - e) The *hsr ω* lncRNAs impact i) induced apoptosis, (2009), ii) expanded polyQ-based neurodegeneration (2006-2011), iii) JNK- and Ras –signaling (1996, 2016-continuing), iv) RNA pol II and hnRNP dynamics in normal and stressed cells (1999; 2012, 2015- continuing)

- f) Over- or down-regulation of *hsr ω* transcripts affect expression of many GO pathways in common as well as unique manner (2016-continuing)
 - g) Over-expression of Hsp83 in near absence of *hsr ω* lncRNAs results in phenocopy of *l(2)gl* mutant and synthetic lethality in *Drosophila* (2018)
6. The hnRNPA1 homolog Hrp36 in *Drosophila* essential for maintenance of telomere integrity (2015-16)
 7. Established *Drosophila* as a model for cell and molecular biological studies on actions of standard Ayurvedic formulation and demonstrated that Amalaki Rasayana and Rasa-Sindoor (a mercury and sulfur based formulation) show biological effects in fly model similar to those indicated in classical Ayurvedic texts and both of them are very effective in suppressing neurodegeneration associated with Huntington's or Alzheimer's diseases – also confirmed in mouse model (2011-2019)

PUBLICATIONS (other than Research: mostly related to Education and policy issues in Science)

1. **S. C. Lakhotia**, S. Ghosal, S. N. Chatterjee & A. S. Mukherjee (1976) Studies on structural and functional organization of nucleus in animal cells. Ann. Rev. Zoology (1974-75), ed. A. S. Mukherjee (Zoological Society, Calcutta) **2**: 181-197
2. **S. C. Lakhotia** (1982) *Drosophila* test system for monitoring genetic damages. In "Evaluation Of Mutagenic And Carcinogenic Potential Of Environmental Agents", ed. R. K. Bhattacharya (Environmental Mutagen Society of India): 20-26
3. **S. C. Lakhotia** (1982) Sister chromatid exchange. IN "Evaluation Of Mutagenic And Carcinogenic Potential Of Environmental Agents", ed. R. K. Bhattacharya (Environmental Mutagen Society of India): 80-84
4. **S. C. Lakhotia** (1987) *Drosophila*: a practical approach (ed. D.B. Roberts, IRL Press, UK). Ind. J. Exp. Biol. (Book-review) **25**: 352
5. **S. C. Lakhotia** (1989) *Drosophila* - more useful than ever before for experimental studies. Cell Biol. Newsletter **11**: 16-25
6. **S. C. Lakhotia** (1990) Poor science, poor journals. Current Science (Correspondence) **59**: 773-774
7. **S. C. Lakhotia** (1991) Biology teaching and habitat destruction. Current Science (Correspondence) **61**: 431
8. **S. C. Lakhotia** (1991) Why 'classical' isn't classy. Current Science (Correspondence) **61**: 708
9. **S. C. Lakhotia** (1991) New approaches in *Drosophila* Genetics. Cent. Commem. Publ. -1991 (Holkar Science College, Indore): 97-106
10. **S. C. Lakhotia** (1991) New approaches in *Drosophila* Genetics make it more useful. Biology Education (Spl. issue on *Drosophila*, Guest ed. **S. C. Lakhotia**) **8**: 173-180
11. **S. C. Lakhotia** (1991) Heat shock response in *Drosophila*. Biology Education (Spl. issue on *Drosophila*, Guest ed. **S. C. Lakhotia**) **8**: 194-204
12. **S. C. Lakhotia** (1991) Demonstration of heat shock induced gene activity in transgenic *Drosophila melanogaster* with a reporter gene fused to a *heat shock promoter*. Biology Education (Spl. issue on *Drosophila*, Guest ed. **S. C. Lakhotia**) **8**: 205-209
13. S. Chandrashekar & **S. C. Lakhotia** (1991) Genetics of body formation during embryonic development in *Drosophila melanogaster*. Biology Education (Spl. issue on *Drosophila*, Guest ed. **S. C. Lakhotia**) **8**: 181-193
14. **S. C. Lakhotia** (1992) Chromosomes (3rd edn, Archana Sharma, Oxford & IBH, 1991). Current Science (Book-review) **63**: 148-149
15. **S. C. Lakhotia** (1993) Search for unity in diversity of the nervous system (Nervous System: Principles of design and function, ed. R.N. Singh, Wiley-Eastern, N. Delhi, 1992). Current Science (Book-Review) **64**: 608-609

16. **S. C. Lakhotia** (1994) On the state of scientific research in India. IN: Science in India: Excellence & Accountability (ed. P.N. Srivastava), Angkor Publ., New Delhi (Focal theme lecture at the 81st Session of Indian Science Congress, 1994)
17. **S. C. Lakhotia** (1994) Palaeobiochemistry - Bridging the gap between the living and dead. *Current Science* **66**: 815-816
18. **S. C. Lakhotia** (1995) Text book of Molecular Biology (K. Sivarama Sastry, G. Padmanaban & C. Subramanyam, Macmillan India Ltd., New Delhi, 1995). *Current Science (Book Review)* **69**: 627-628
19. **S. C. Lakhotia** (1995) The 1995 Nobel Prize in Medicine: a tribute to the power of formal Genetics. *Current Science (News)* **69**: 797-801
20. **S. C. Lakhotia** (1997) Cell and Molecular Biology (S. C. Rastogi, New Age International (P) Ltd., New Delhi, 1996). *Current Science (Book Review)* **72**:524-525
21. **S. C. Lakhotia** (1997) Deteriorating higher education: heavy price for inaction. *Current Science (Correspondence)* **73**:6
22. P. Csermely & **S. C. Lakhotia** (1998) Molecular biology of stress responses in India. (Meeting Review). *Cell Stress & Chaperones* **3**: 1-5
23. **S. C. Lakhotia** (1998) Annual Review of Cell and Molecular Biology 1998. *Current Science (Book Review)* **75**: 515-517
24. **S. C. Lakhotia** (1999) Stress-inducible cellular responses (U. Fiege et. al., 1996). *J. Cytol. Genet. (Book Review)* **32**: 159-160
25. **S. C. Lakhotia** (2000) A History of Molecular Biology. *Current Science (Book Review)* **78**: 633-634
26. **S. C. Lakhotia** (2000) Biology today: urgent need for an integrative approach. *Current Science (Meeting Report)* **78**: 1414-1415
27. **S. C. Lakhotia** (2001) Preface. In: Integrative Biology (ed. S. C. Lakhotia), Indian Natl Sci. Acad., N. Delhi, v-vi
28. **S. C. Lakhotia** (2001) Biology teaching: urgent need for an integrative approach. In: Integrative Biology (ed. S. C. Lakhotia), Indian Natl Sci. Acad., N. Delhi, 25-28
29. **S. C. Lakhotia** (2002) Animal and human cloning - the technology and ethics. *Science Letters* **25**: 25-32
30. **S. C. Lakhotia** (2002) Biology in India. *Biology International* **43**: 32-36
31. **S. C. Lakhotia** (2003) Journey from extra-nuclear DNA to non-coding RNA (9th Prof. S. P. Ray-Chaudhuri 75th Birthday Endowment lecture at the 26th All India Cell Biology Conference, ACTREC, Mumbai). *Cell Biology Newsletter* **23**: 8-11.
32. **S. C. Lakhotia** (2003) The vicious circle of poor science, poor journals and poor recognition. *Current Science (Commentary)* **85**: 20-22
33. **S. C. Lakhotia** (2004) Stress biology – from molecules to populations and environment (Foreword to Special Section on Stress Biology). *J. Biosciences* **29**: 447-448
34. **S. C. Lakhotia** (2005) Ardhendu Sekhar Mukherjee (1935-2005). *Current Science (Personal News)* **88**: 1331-1332
35. **S. C. Lakhotia** (2005) India's ambitions to be a world leader in S & T depend upon a drastic overhaul of the university system. *Current Science (Commentary)* **88**: 1731-1735
36. **S. C. Lakhotia** (2005) Deemed universities and other universities. *Current Science (Guest Editorial)* **89**: 1303-1304
37. **S. C. Lakhotia** and D. Pental (2006) XI Plan, higher education and recommendations of the science academies. *Current Science (Commentary)* **91**:1130-1131
38. **S. C. Lakhotia** (2008) Perils of "industrial gene" and "beanbag genetics". *Bioessays* **30**: 288
39. **S. C. Lakhotia** (2008) Are biotechnology degree courses relevant? *Current Science (Opinion)* **94**: 1244-1245

40. Munnalal, Sitaram Tiwari, Rajesh, Amarnath Singh, Jagat Narayan Singh, Richa Arya, Akanksha & **S. C. Lakhotia** (2008) A simple and economical device to save water in water distillation systems in laboratories. *Current Science* **95**:438
41. **S. C. Lakhotia** & N. Mukunda (2008) Restructuring post-school science teaching programmes. *Current Science* **95**:1409-1418
42. **S. C. Lakhotia** and N. Mukunda (2009) Science Academies recommend a broad-based education in sciences: Summary of presentations and open discussions. In: Restructuring Post-School Science Teaching Programmes. A brief Report published jointly by Indian National Science Academy, Indian Academy of Sciences, National Academy of Sciences India
43. **S. C. Lakhotia** (2009) Nature of methods in science: technology driven science versus science driven technology. *Bioessays* **31**: 1370-1371
44. **S. C. Lakhotia** (2010) Hype and the reality of biotechnology.
<https://indiabioscience.org/columns/opinion/hype-and-the-reality-of-biotechnology>
45. **S. C. Lakhotia** (2010) "Impact factor" and "we also ran" syndromes. *Current Science* **99**: 411
46. **S. C. Lakhotia** (2010) Validation of Ayurvedic formulations in animal models requires stringent scientific rigor. *J. Ayurveda and Integrative Medicine* (letter to Editor) **3**:171-172
47. **S. C. Lakhotia** (2011) Are we teaching Biology well?
<https://indiabioscience.org/columns/education/are-we-teaching-biology-well>
48. **S. C. Lakhotia** (2011) Holistic science sans impact factor.
<https://indiabioscience.org/columns/opinion/holistic-science-sans-impact-factor>
49. **S. C. Lakhotia** (2011) The damaging impact of "impact factor".
<https://indiabioscience.org/columns/opinion/the-damaging-impact-of-impact-factor>
50. **S. C. Lakhotia** (2011) Advantages of working with organisms other than the model systems.
<https://indiabioscience.org/columns/general-science/advantages-of-working-with-organisms-other-than-the-model-systems>
51. **S. C. Lakhotia** (2011) Over-emphasis on the so-called "Molecular Biology" has stunted Biology.
<https://indiabioscience.org/columns/opinion/over-emphasis-on-molecular-biology-has-stunted-biology>
52. **ICSU** (2011). Report of the ICSU Ad-hoc Review Panel on Science Education. International Council for Science, Paris. <http://www.icsu.org/publications/reports-and-reviews/report-of-the-icsu-ad-hoc-review-panel-on-science-education/report-of-the-icsu-ad-hoc-review-panel-on-science-education>
53. **S. C. Lakhotia** (2011) Do we always need "big money" for quality research?
<https://indiabioscience.org/columns/opinion/do-we-always-need-big-money-for-quality-research>
54. **S. C. Lakhotia** (2011) Reductionist vs integrative approach in biology.
<https://indiabioscience.org/columns/education/reductionist-vs-integrative-approach-in-biology>
55. **S. C. Lakhotia** (2011) Higher education in India: past, present and future. (Video talk)
<http://ibiomagazine.org/issues/september-2011-issue/subhash-lakhotia.html>
56. **S. C. Lakhotia** (2011) How to improve the quality of teaching and research in Indian universities
<https://indiabioscience.org/columns/indian-scenario/how-to-improve-the-quality-of-teaching-and-research-in-indian-univeesities>
57. **S. C. Lakhotia** (2013) Neurodegeneration disorders need holistic care and treatment – can Ayurveda meet the challenge? *Annals Neurosciences* (Editorial), **20**: 1-3.
58. **S. C. Lakhotia**, L. S. Shashidhara, Ron Vale (2013) Excellence in science education and research. *Curr. Sci.* **104**: 163-165
59. **S. C. Lakhotia** (2013) Myths and Science. In "Varanasi: Myths and Scientific Studies" (Ed. Vidula Jayaswal), Aryan Book International, pp. 154-158. DOI: 10.13140/RG.2.1.2969.5123

60. **S. C. Lakhotia** (2013) In-depth basic science studies essential for revival of ayurveda. (Guest Editorial). *Ann. Ayurvedic Med* **2**: 58-60
61. **S. C. Lakhotia** (2013) 'National' versus 'International' Journals. *Curr. Sci.* **105**: 287-288
62. **S. C. Lakhotia** (2013) Peer review: then and now. *Curr. Sci.* **105**:745-746
63. **S. C. Lakhotia** (2014) Research, Communication and Impact (Editorial). *Proc. Indian natl. Sci. Acad.* **80**: 1-3
64. **Krishanu Ray & S. C. Lakhotia** (2014). *Drosophila melanogaster*: a tiny fruit fly is invigorating research in India. *Curr. Sci.* **106**: 1469.
65. **S. C. Lakhotia** (2014) What sustains (Editorial). *Proc. Ind. Natn. Sci. Acad.* **80**: 179-180
66. **S. C. Lakhotia** (2014). Translating Ayurveda's Dosha-Prakriti into objective parameters. *J. Ayur. Integr. Medicine* **5**: 176 (Commentary)
67. **S. C. Lakhotia** (2014) Why we publish, what we publish and where we publish (Editorial)? *Proc. Ind. Natn. Sci. Acad.* **80**: 511-512
68. **S. C. Lakhotia** (2014) Societal responsibilities and research publications (Editorial). *Proc. Ind. Natn. Sci. Acad.* **80**: 913-914. DOI: 10.16943/ptinsa/2014/v80i5/47963.
69. **S. C. Lakhotia & Akshay Anand** (2015) excellence in medical research – can we make it in India? (Editorial) *Ann Neuro.* **22**: 55-57
70. **S. C. Lakhotia** (2015) Science research in India at cross-roads. (Editorial). *Proc. Ind. Natn. Sci. Acad.* **81**: 337-338
71. **S. C. Lakhotia** (2015) Predatory journals and academic pollution (Guest Editorial). *Curr. Sci.* **108**: 1407-1408
72. **S. C. Lakhotia** (2015) Tomar et al Handbook of Genetics & Biotechnology (Book review). *Curr. Sci.* **108**: 1946-1947
73. **S. C. Lakhotia** (2015) Promoting and nurturing post-doctoral research culture in India. (Editorial) *proc. Ind. Natn. Sci. Acad.* **81**: 549-551 DOI: 10.16943/ptinsa/2015/v81i3/48220
74. **S. C. Lakhotia** (2015). Patwardhan et al Integrative Approaches for Health: Biomedical Research, Ayurveda and Yoga (Book Review) *Proc. Ind. Natn. Sci. Acad.* **81**: 286-691 DOI: 10.16943/ptinsa/2015/v81i3/48227
75. **S. C. Lakhotia** (2015). India: Science & Technology, vol. 3: Book Review *Current Science* **109**: 1875-1876
76. **S. C. Lakhotia** (2015). New Emphasis on Privately Funded Applied Research: Would it Make India Industrially Sound and a Knowledge Economy? (Editorial) *Proc Indian Natn Sci Acad* **81** 1077-1079. DOI: 10.16943/ptinsa/2015/v81i5/48331.
http://insa.nic.in/writereaddata/UploadedFiles/PINSA/Vol81_2015_5_Art01.pdf
77. **S. C. Lakhotia** (2015). Exploring Traditional Medicine - Attempt to Validate Layman's Experience-based Health Care Systems Across the World. (Meeting Report) *Proc Indian Natn Sci Acad* **81** 1081-1085. DOI: 10.16943/ptinsa/2015/v81i5/48332.
78. **S. C. Lakhotia** (2016). Ayurvedic Biology - an unbiased approach to understand traditional health-care system. (Editorial) *Proc Indian Natn Sci Acad* **82** 1-3. DOI: 10.16943/ptinsa/2016/v81i1/48448
<http://www.insajournals.in/insaj/index.php/proceedings/article/viewFile/65/32>
79. **S. C. Lakhotia** (2016). New education policy and science & technology vision 2032 - catchy slogans to action. (Editorial) *PROC INDIAN NATN SCI ACAD* **82** 1163-1166. DOI: 10.16943/ptinsa/2016/48579.
http://insa.nic.in/writereaddata/UploadedFiles/PINSA/2016_Art97.pdf
80. **S. C. Lakhotia** (2017). The fraud of open access publishing. (Opinion) *Proc Indian Natn Sci Acad* **83**: 33-36. DOI: 10.16943/ptinsa/2017/48942
81. **S. C. Lakhotia** (2017). Mis-conceived and mis-implemented academic assessment rules underlie

- the scourge of predatory journals and conferences. (Editorial) Proc Indian Natn Sci Acad **83**: 513-515. DOI: 10.16943/ptinsa/2017/49141
82. **S. C. Lakhotia** (2017) What if you choose to ignore IF (impact factor)? Indiabiocience Interview. DOI: 10.13140/RG.2.2.19736.29441 <https://indiabiocience.org/columns/conversations/what-if-you-chose-to-ignore-if-impact-factor>
83. **S. C. Lakhotia** (2017) On improving this journal. Proc. Indian Natn Sci Acad **83**: 739-740. DOI: 10.16943/ptinsa/2017/49259
84. **S. C. Lakhotia** (2018) Conundrum of research publications in India. Proc. Indian Natn Sci Acad **84**: 317-318. DOI: 10.16943/ptinsa/2018/49416
85. P. Chaddah & **S. C. Lakhotia** (2018) A Policy Statement on “Dissemination and Evaluation of Research Output in India” by the Indian National Science Academy (New Delhi). Proc Indian Natn Sci Acad **84**: 319-329. DOI: 10.16943/ptinsa/2018/49415
86. **S. C. Lakhotia** (2018) Glimpses of RNA biology. Proc Indian Natn Sci Acad **84**: 413-414. DOI: 10.16943/ptinsa/2018/49417
87. **S. C. Lakhotia** (2018) Research fund crunch, real or created, is hitting India’s academia on the wrong side. Proc Indian Natn Sci Acad **84**: 545-547. DOI: 10.16943/ptinsa/2018/
88. **S. C. Lakhotia** (2018) Why are Indian research journals not making a mark? – The enemy is within. Current Science **115**: 2187-2188
89. **S. C. Lakhotia** & P. Chaddah (2019) Ethics of research. In: Ethics in Science Education, Research and Governance (eds: K. Muralidhar, A. Ghosh & A. K. Singhvi), Indian National Science Academy, New Delhi; pp 35-43
90. **S. C. Lakhotia** & S. Chandrasekaran (2019) Ethics of publications. In: Ethics in Science Education, Research and Governance (eds: K. Muralidhar, A. Ghosh & A. K. Singhvi), Indian National Science Academy, New Delhi; pp 65-84
91. **S. C. Lakhotia** (2019) ‘Plan-S’ model of research publication – a serious and unwarranted drain on money meant for actual research. Confluence <http://confluence.ias.ac.in/plan-s-model-of-research-publication-a-serious-and-unwarranted-drain-on-money-meant-for-actual-research/>
92. **S. C. Lakhotia**, Kishor Patwardhan and Sanjeev Rastogi (2019) AYUSH advisory presents ominous outlook for research in traditional Indian health-care systems. Current Science **116**: 1459-1460
93. **S. C. Lakhotia** (2019) Correlation of physiological principles of Ayurveda with spin types of quantum physics (Letter to Editor). Annals Ayurvedic Medicine **8**: 60.
94. **S. C. Lakhotia** (2019) Liquid-liquid phase separated membrane-less organelles– a novel understanding of functional compartmentalization in cells. Cell Biology Newsletter **38**:25-32
95. S. Chakraborty, J. Gowrishankar, A. Joshi, P. Kannan, R. K. Kohli, **S. C. Lakhotia**, G. Misra, C. M. Nautiyal, K. Ramasubramanian, N. Sathyamurthy & A. K. Singhvi (2020) Suggestions for a national framework for publication of and access to literature in science and technology in India. Current Science **118**: 1026-1034. DOI: 10.18520/cs/v118/i7/1026-1034
96. **S. C. Lakhotia** (2020) What we expect of Integrative Medicine Case Reports? (Guest Editorial). Integrative Medicine Case Reports. **1**:1-2. doi: 10.38205/imcr.010101
97. **S. C. Lakhotia** (2020) My Experiences in Ayurvedic Biology Research. AVS, Kottakal. In press