

Curriculum Vitae

S. P. Singh, M.Sc., Ph.D.

Human Biology/Human Genetics Department

Former Dean, Faculty of Life Sciences, Former Additional Dean Research, Punjabi University, Patiala, Former Professor and Head, Department of Human Biology/Human Genetics, Punjabi University, Patiala.

An experience of 35 years in the subject of Anthropology/Human Biology, Foods and Nutrition to teach post graduate students with specialization in Anthropometry, Child Growth and Development, Nutrition.

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Brief information

Particulars/Events	Number
Books (authored and edited) (Appendix 1)	10
Research papers published (Appendix 2)	140
Ph.D.'s guided (Appendix 3)	22
Educational films: scripts written and directed for UGC (EMMRC) (Appendix 4)	7
Organised national conferences and refresher courses (Appendix 5)	8
Research and teaching experience in years	35
Chaired sessions at international conferences (Appendix 6)	5
Presented papers in international and national conferences (Appendix 7)	40
Membership of academic and professional associations/ bodies (Appendix 8)	6
Research Projects Undertaken	4
Editorial Assignments (Appendix 9)	Numerous
Visiting Fellow and Ph.D. examiner of numerous Universities	

Expertise

- Administrative Experience in the capacity of Additional Dean (Research), Punjabi University Patiala, from July 2010 to June 2011. **Handled the designing and implementation of "UGC regulations on minimum qualifications for appointment of teachers and other academic staff in universities and colleges, 2010". Monitored the progress of evaluation of Ph.D. theses of candidates enrolled in Punjabi University and also designed the curriculum for the course work of Ph.D./M.Phil., candidates which was introduced for the first time then.**
- As Dean, Faculty of Life Sciences, Punjabi University Patiala, from July 2010 to June 2011, **chaired meetings of Faculty of Life Sciences and took decisions for upgradation of syllabi of all subjects falling under the Life Sciences category (Botany, Biotechnology, Human Biology, Zoology). Handled the cases of the Ph.D. candidates enrolled/registered in Life Sciences Faculty. Chaired meetings of the screening committee for making the gist of Ph.D. reports submitted by the examiners.**
- Head, Human Biology Department, Punjabi University, Patiala, from 2000 to 2003. Organised two Refresher Courses in the subject of Human Biology/Antropology of the UGC and a Lecture in the "Millennium Lecture Series" in 2001.
- Vast experience of editing scholarly journals and manuscripts. Extensive experience in research designing, project writing and executing population surveys in the remotest areas and on tribal and disadvantaged groups to gather information crucial to health planners. Using anthropometry to monitor nutrition among children.

- Editor-in-Chief of a quarterly journal: Human Biology Review (ISSN 2277 –4424) . International Peer Reviewed Journal of Biological Anthropology. Website: www.HumanBiologyJournal.com. It is indexed in Indian Citation Index (ICI).
- Teaching experience of 35 years in the subject of Anthropology/Human Biology/ Human Genetics/ Foods and Nutrition, to post graduate students with specialization in Anthropometry, Child Growth and Development, Nutrition.

Administrative Positions

- Has been nominated as a Member of the TAC (Technical Advisory Committee of Indian Statistical Institute (ISI), Kolkata in the Biological Sciences Division from November 2014 to 2018 to evaluate research projects submitted to the institute.
- Additional Dean (Research), Punjabi University Patiala, from July 2010 to June 2011
- Dean, Faculty of Life Sciences, Punjabi University Patiala, from July 2010 to June 2011
- Head, Human Biology Dept, Punjabi University, Patiala, from 2000 to 2003.
- Member Academic Council, PUP
- Member Senate, PUP
- Chairman BOS in Human Biology (2000-2003)
- Chairman, BOS in Home Science (2010-2011)
- Chairman, BOS in Dress Designing and Tailoring (2010-2011)
- Member of Senate of Mata Gujri College, Fatehgarh Sahib (An autonomous college) from 2010-2013.

Medals/ Fellowships:

Gold Medal for standing First in the University in M.Sc. Human Biology (1973).

Junior Research Fellow of UGC from June 1974 to March 1978

Senior Research Fellow of Home Ministry (Tribal Development), from April 1978 to June 1980

Post Doctoral Fellow of CSIR, from July 1980 to December 1980

Appendix 1

Books Authored and edited by Dr. S.P. Singh

1. P. Bharati, S.P. Singh, J. Kaur and D.K. Adak. 2015. *Health, Nutrition and Physical Growth in Developing Nations*. Mittal Publications, New Delhi. ISBN 8183245463.
2. S.P.Singh. 2013. *Bachian da Sarirak Vikas* (In Punjabi), Punjabi University Publication Bureau, Patiala. ISBN 8130201856
3. S.P. Singh and Promila Mehta 2009 *Human Body Measurements: Concepts and Applications*. Prentice Hall of India Ltd. New Delhi. ISBN 8120338634.
4. S.P. Singh and Rajan Gaur. 2007. *Human Body Composition*. Kamla-Raj Enterprises, Delhi. ISBN.8185264430.
5. Praveen Singhal (editor), S.P. Singh (co-editor), L.S. Sidhu, D.P. Bhatnagar, H. Kaur, S.M.S. Chahal, Pushpa Singal, Promila Malhotra & Satbir Kaur. 2000. *Advances in Human Biology at the turn of the Millennium*. Punjabi University Publication Bureau, Patiala. ISBN.8173806276.
6. Singh, S.P. 2000. *Manukhi sarirk bantar ate minti diyan parmanik vidhian* (Punjabi translation of the book entitled Kinanthropometry by S.P. Singh & Promila Malhotra). Punjabi University Publication Bureau, Patiala.
7. L.S.Sidhu & S.P. Singh. 1996. *Human Biology: Global Developments (editors)*. USG Publishers & Distributors, Ludhiana.

8. S.P. Singh, L.S.Sidhu, J. Singh. 1992. *Skeletal Maturity*. Human Biology Publication Society, Patiala. ISBN 81-00293-0-4. pp 221.
9. S.P. Singh & P. Malhotra. 1989. *Kinanthropometry: Human size, shape, proportion, composition, maturation and gross function*. Lunar Publications, Patiala, India, pp 121.
10. I.J.S. Bansal, L.S. Sidhu, L.Singh, D.P. Bhatnagar, Praveen Singhal, S.M.S. Chahal, H.Kaur, S.P.Singh, Pushpa Singal, S.Kaur (editors). 1989. *New Horizons in Human Biology*. Today & Tommorrow Publishers, New Delhi.

APPENDIX – 2

Research papers Published by DR. S. P. SINGH

1. **K Singh**, SP Singh, G Kaur and K Bose. 2019. Mid-upper arm circumference as an indicator of undernutrition among old age home and community based elderly in Punjab, India. *Journal Care Weekly*. (Accepted)
2. **K Singh**, SP Singh, G Kaur and K Bose. 2019. Association of body mass index and upper arm body composition with depressive symptoms among elderly according to their place of residence. *Homo: Journal of Comparative Human Biology*.(Accepted)
3. **Kulvir Singh**, S. P. Singh and Ginjinder Kaur. Association of depressive symptoms with type of residence, body composition and physiological functions among elderly males of Punjab. (Accepted)
4. Kulvir Singh, S.P Singh and Ginjinder Kaur 2018. Depressive Symptoms in the Ageing Male population Residing in Old Age Homes and with their Families in Punjab state. *Studies on Ethno Medicines*, **12**(4), 261-269.
5. Kaur G, Singh SP & Singh AP. 2018. Trends in somatotype components of ageing rural women of Punjab. *Human Biology Review*, **7**(1):84-93.2018.
6. Kulvir Singh, S.P. Singh, Ginjinder Kaur 2017. Depression and Reaction time among elderly residing in old age homes of Punjab. *Worldwide Journal of Multidisciplinary Research and Development*, **3**(12), 192-196.
7. Kaur G, Singh SP and Singh AP. 2017. Age Related Variations in Endomorphic, Mesomorphic and Ectomorphic Components of Somatotype in Urban Women of Punjab *Human Biology Review*, **6** (1), 47-52.
8. Ajitpal Singh, SP Singh, Jeewanjot Sekhon 2016. Bilateral variations in upper limb anthropometry and estimation of stature from total arm length: An occupational analysis *Journal of North States Chapter of Anatomical Society of India*.
9. Satinder Kaur, S.P Singh and Ginjinder Kaur 2016. Principal Component Analysis of the physique in Young adults of Punjab. *Human Biology Review*, **5**(2), 117-127.
10. Ginjinder Kaur and S.P. Singh 2015. Impact of Emotional deprivation on body composition among adolescents of North-West India. In Premanand Bharati, S.P. Singh, Jaspreet Kaur and Dipak. K. Adak (eds.) *Health, Nutrition and Physical Growth in Developing Nations* 1st edn, Mittal Publications, New Delhi, Pp. 43-50. ISBN-818324-546-3.
11. Satinder Kaur, S.P. Singh and Ginjinder Kaur 2015. Correlation between Adiposity and Body mass Index in Young Punjabi Adults. *Journal Punjab Academy of Sciences*, **1&2** (15-16), 13-15.

12. S.P. Singh. 2015. Factors affecting low birth weight among newborns of Punjab. In 'Health, Nutrition and Physical Growth in Developing Nations', P. Bharati, S.P. Singh, J. Kaur and D.K. Adak (Eds.), Mittal Publications, New Delhi, pp 93-102.
13. Ajit Pal Singh , S.P.Singh, Jeewanjot Sekhon. 2015. Body Morphology and Occupation: An Anthropometric determination of Tailors. SMU Medical Journal, 2 (2), 134-146.
14. Gurbinder Singh and S.P. Singh. 2013. Pesticide pollution and child growth. The Asian Man, 7(1&2), 83-90.
15. Gurjeet Kaur, S. P. Singh and Ajit Pal Singh. 2013. Risk of Developing Cardiovascular and Coronary Heart Diseases: An Anthropometric Analysis of Rural Women of Punjab. Hum. Bio. Rev., 2 (1), 56-65.
16. Ajitpal Singh, S.P.Singh and Jeewanjot Sekhon. 2013. Occupational Impact on Body Physique and Health Status: An Anthropometric Analysis of Carpenters . Hum. Bio. Rev. 2 (1), 12-23.
17. AjitPal Singh, S.P.Singh and Jeevanjot Sekhon. 2012. Impact of work performance on body proportions in Blacksmiths: A somatometric analysis. Hum Bio Rev, 1(2), 138-150.
18. Ginjinder Kaur and S.P. Singh. 2011. Effect of emotional deprivation on physical deprivation. *Indian Journal of Physical Anthropology and Human Genetics* **30** (1, 2): 89-102.
19. Ginjinder Kaur and S.P. Singh. 2011. Effect of institutionalization on intelligence among adolescents. *Indian Journal of Sports Science and Physical Education*, 2011, 20(1&2): 13-24.
20. Ginjinder Kaur Lamba and S.P. Singh 2010. Menarcheal status and institutionalization. *Ind. J. Sports Sc. Phys. Educ.*, 19, 65-76.
21. Ajitpal Singh, S.P.Singh. 2010. Central and Peripheral Subcutaneous Fat distribution and their relation to health and disease of men aged 30- 40 years. *Indian Journal of Multidisciplinary Research*. Vol.6(2):237-242.
22. S.P.Singh. 2010. High altitude adaptation: A Review. In 'Anthropology Today: Trends and scope of Human Biology', M.K. Bhasin and Charles Susanne (Eds.). Kamla-Raj Enterprises, Delhi, pp. 51-58.
23. Darshan Kumar and S.P. Singh. 2010. Growth performance of 4 to 9 year old boys of Patiala. *Ind. J. Sports Sc. Phys. Educ.*, 19, 29-37.
24. Ginjinder Kaur Lamba and S.P. Singh 2009. Impact of institutionalization on somatotype among adolescents. *J. Life Sciences*, 1, 15-19.
25. Singh, A.P. and S.P. Singh. 2009. Comparative analysis of systolic blood pressure (SBP), diastolic blood pressure (DBP), pulse rate (PR) and maximum expiratory pressure (MEP) in some traditional occupational groups. *Ind. J. Multidisciplinary Res.*, 5, 13-16.
26. G. Kaur & S.P. Singh. 2009. Somatotypic Variations With Age in Institutionalized and Control Adolescents. *The Internet Journal of Biological Anthropology*. 2009 Volume 3 Number 1(Online publication).
27. G. Kaur & S.P. Singh. 2009. Impact of Emotional Deprivation on growth of circumferences in adolescents. *Folia Anthropologica* , 8 (3), 35-40.
28. Navdeep Kaur, R. Mokha and S.P. Singh. 2009. Comparative study of age changes in somatotyping of pre and post menarcheal girls. *Ind. J. Sport Sc. Phys. Educ.*, 18, 9-19.

29. Jaspreet Kaur, Promila Mehta and S.P. Singh. 2009. Prevalence of overweight and obesity in girls studying in private and government schools of Ludhiana (Punjab). *Ind. J. Sport Sc. Phys. Educ.*, 18,53-64.
30. Singh, J., G.Kaur, S.P. Singh and L. S. Sidhu. 2008. A study of body diameters of sports and non sports boys aged 11 through 19 years. *Ind. J. Sports Sc. Phys. Educ.*, 17, 51-58.
31. Molly J. Thomas and S. P. Singh. 2007. Age changes in cranio facial angles investigated by magnetic resonance imaging. *Folia Anthropologica*, 6 (3), 19-28
32. S.P. Singh. 2007. Somatotype and disease – A Review. In: *Anthropology Today – Trends, Scope and Applications*. Veena Bhasin and M.K. Bhasin (Eds.). Kamla-Raj Enterprises, Delhi. Pp. 251-261.
33. Dolly Monisha, S.P. Singh, A.K. Bhalla. 2007. Dynamics of body fat and circumferences in Post Menopausal Women of Chandigarh, India. In ‘Human Body Composition’. S.P. Singh and Rajan Gaur (Eds.), pp. 101-108. Kamla-Raj Enterprises, Delhi.
34. S.P. Singh, Pritpal Singh, Promila Malhotra & L.S. Sidhu. 2007. Somatotypes of High Altitude Spitian Boys. *J. Hum. Ecol.*, 22: 129-133.
35. A.P. Singh, S.P. Singh and Paramjeet Kaur. 2007. Trends in Skeletal Diameters: An Influence of Habitual Physical activity. *Ind. J. Multidisc. Res.*, 3, 153-158.
36. A.P. Singh and S.P. Singh. 2007. Bilateral Variations in Adipose Tissue Distribution, Segmental Lengths and Body Breadths in Relation to Physical Activity Status. *The Anthropologist*, 9, 251-254.
37. A.P.Singh and S.P.Singh. 2007. Impact of Habitual Physical Activity on the Human Body Proportions: A Comparative Study of Some Traditional Occupational Groups. *J. Hum. Ecol.*, 22: 271-275.
38. S.P. Singh, P. Malhotra, L.S. Sidhu and Prit Pal Singh. 2007. Proportional growth assessment of Spitian boys of the Himalayas. *J. Hum. Ecol.*, 22: 47-51.
39. P. Mehta, S. Dhawan and S.P. Singh.2007. Physical growth in Punjabi girls in Government and Public schools in Punjab. *J. Sports Sc. Physiotherapy*, 3, 73-78..
40. Sukhdeep Singh and S.P. Singh. 2007. Physical growth of deaf mute boys of Punjab. *J. Sports Sc. Physiotherapy*, 3, 65-72.
41. S.P. Singh, P. Malhotra, L.S. Sidhu and Prit Pal Singh. 2007. Nutritional Assessment of Boys of the Spitian Tribe of the Himalayas. *J. Hum. Ecol.*, 21, 279-284.
42. S.P. Singh, P. Malhotra, L.S. Sidhu and Prit Pal Singh. 2007. Skeletal Frame size of Spitian children. *J. Hum. Ecol.*, 21, 227-230.
43. Molly J. Thomas and S. P. Singh. 2006. Craniometry by Magnetic Resonance Imaging. *Ind. J. Multi. Res.*, 2, 161-170.
44. Promila Malhotra, Prit Pal Singh, S.P. Singh and L.S. Sidhu • 2006. Physical Growth of High Altitude Spitian Boys. *J. Hum. Ecol.*, 20 (2), 147 – 151.
45. Ajit P. Singh and S.P. Singh. 2006. Occupational changes in body composition and risk of developing CVDs and CHDs in adult men of Punjab, India. *Ind. J. Multidisc. Res.*, 2, 3-10.

46. Ajit Pal Singh and S. P. Singh (2006) Somatotypic Variations: An Analysis of Some Traditional Occupations. *J. HUM. ECOL.*, 19, 249-251.
47. Ginjinder Kaur and S. P. Singh (2005) Emotional deprivation and physical growth among adolescents of North West India. *Ind. J. Phys. Anthropol. Hum. Genet.*, 24 (2), 187-197.
48. Ginjinder Kaur, Harmander Singh Kang, Pushpa Singal and S.P. Singh (2005) Nutritional Status: Anthropometric Perspective of Pre-School Children. *The Anthropologist*, 7, 99-103.
49. H.S. Kang, Ginjinder Kaur, P. Singal and S.P. Singh. 2005. Nutritional status of Punjabi children: mid-upper arm circumference-for-age and BMI-for-age as screening indicators. In 'Auxology', G.A. Toth (Ed.), pp.73-78, Savaria University Press, Szombathely.
50. Ajit Pal Singh, Pushpa Singal and S.P. Singh (2005) Arm Muscle and Fat Components in Adolescent Boys of Punjab, *The Anthropologist*, 7, 161-163.
51. Rupinder Bansal and S.P. Singh. 2004. Structural and functional characteristics of young and old group Punjabi females. *J. Pb. Acad. Sci.*, 1, 53-56.
52. Ajit Pal Singh, Pushpa Singal, Rupinder Kaur and S.P. Singh (2003) Assessment of Malnutrition in Punjabi Urban Males According to Body Mass Index (BMI) and Weight for Height Criteria. *The Anthropologist*, 5, 189-191.
53. Ajit Pal Singh, Pushpa Singal and S.P. Singh (2003). Evaluation of physical growth performance of Punjabi boys. In: *Understanding People of India: Anthropological Insight*. Eds. A.K. Kalla and D.K. Bhattacharya. Delhi University, Delhi, pp. 68-71.
54. Ginjinder Kaur and S. P. Singh (2003). Growth and Malnutrition in 1 – 5 year old Punjabi boys. . In: *Understanding People of India: Anthropological Insight*. Eds. A.K. Kalla and D.K. Bhattacharya. Delhi University, Delhi, pp. 72-77.
55. Rupinder Kaur and S.P. Singh (2003). Growth and malnutrition in Punjabi females from 1 to 5 years. In: *Understanding People of India: Anthropological Insight*. Eds. A.K. Kalla and D.K. Bhattacharya. Delhi University, Delhi, pp. 78-82.
56. Baljit Kaur, S.P.Singh & Rupinder Kaur. 2002 Physiological variation between two populations of Punjab. *J. Hum. Ecol.*, 13(4), 321-322.
57. Singh, S.P. 2002. Anthropometric perspective on nutritional status. In "Anthropology: Trends and Applications", eds., M.K. Bhasin, S.L. Malik. *Anthropologist special issue*, 1, 73-82.
58. S.P.Singh.2002. Anthropometric Perspective on Body Composition. In 'Human Growth and Development', Eds., R.N. Vasishat, B.G. Banerjee, R.K. Pathak, I. Talwar and R. Gaur. Department of Anthropology, Panjab University, Chandigarh, 36-54.
59. S.P.Singh & Promila Mehta. 2002. Physiological responses to exercise and recovery in national cyclists. *Ind. J. Sport Sc. Phys. Educ.*, 11 (1&2), 29-37(1999).
60. Baljit Kaur, S.P.Singh & Rupinder Kaur. 2001. Structural profile and fat patterning between two endogamous groups of Punjabi females. *The Anthropologist*, 3 (3), 247-250.
61. Baljit Kaur, Surinder Kaur, S.P.Singh, L.S. Sidhu & Rupinder Kaur. 2001. Secular trends in somatotypes among female university players. *The Anthropologist*, 3(4), 257-260.
62. Singh, S.P. 2000. Anthropometric somatotypes in Gaddi boys. *Human Growth - a multidisciplinary approach*, Eds. D.P.Bhatnagar et al. 80-86.
63. Monisha, Dolly, S.P. Singh and P. Mehta 2000. Height, weight and BMI among Punjabi males. *Anthropologist*, 2 (4) : 233-235.

64. Kaur, I., P. Mehta & S.P.Singh. 2000. Relationship between female foeticide and sex ratio. *Anthropologist*, 2(4), 221-224.
65. Kaur, Rupinder & S.P. Singh. 2000. Body mass index in young and old Punjabi females. *J. Hum. Eco.* 11(5), 347-350.
66. Nirlep Kaur & S.P. Singh, 2000, Motor abilities as predictor of performance in volleyball players. Advances in Human Biology at the turn of the Millennium, pp 38-42, Punjabi University Publication Bureau, Patiala.
67. P.P.S. Sandhu, L.S. Sidhu and S.P. Singh 2000. Senescence trends in Kumaon and Punjabi males. Advances in Human Biology at the turn of the Millennium, pp, 120-127 Punjabi University Publication Bureau, Patiala
68. Singh, S.P. and Surinder pal Singh, 2000. Inter-generational variation in body morphology and somatotype in Labana Sikhs. *Man Environment relationship*. M.K. Bhasin & Veena Bhasin (eds.), Kamla-Raj Enterprises, Delhi. 193-200.
69. Singh, J., L.S.Sidhu, S.P., Singh and G. Kaur. 2000. A study of discriminant androgyny score 1 and somatotype components of sports and non-sports boys. *Anthropology at the Turn of the Century*, Pp. 154-158. Eds. R.N.Vasishat et al. Published by Dept.of Anthropology, Panjab University, Chandigarh.
70. S.P. Singh, 2000. Maturity gradients in Rajput boys. Advances in Human Biology at the turn of the Millennium. Eds. Praveen Singhal & S.P. Singh, pp, 111-119 Punjabi University Publication Bureau, Patiala.
71. Kaur, Rupinder, S.P. Singh. 1999. Secular shift in age at menarche in Patiala women. *The Anthropologist*, 1(3), 183-188.
72. Singh, Monica, S.P. Singh, Harsurinder Kaur, Puneet Pal Singh.1999. A study of some morphological and serological parameters in twins. *Anthropologist*, 1, 261-264
73. S.P. Singh, Puneet Pal Singh & Ranju Bala, 1998. Menarcheal status and physical structure of Punjabi girls. *J. Hum. Ecol.*, 9, 47-52.
74. S.P. Singh, R. Bala 1997. Cognitive and physical development of preschool girls. *J. Hum. Ecol.*, 8, 61-67.
75. P.P. Singh & S.P. Singh. 1997. Age of eruption of primary teeth in Khatri boys and girls of Punjab. *J. Ind. Anthrop. Soc.*, 30, 273-277.
76. S.P. Singh, L.S. Sidhu & P. Malhotra. 1997. Physical growth and development of children of Punjab. *Anthrop. Kozl.*, 30, 125-129.
77. S.P. Singh, L.S.Sidhu, J. Singh 1996. Skeletal maturity of sports and non sports boys. In *Human Biology-Global developments*, eds L.S. Sidhu and S.P. Singh, pp. 169-181. USG Publishers, Ludhiana
78. L. S. Sidhu, J. Singh, S.P. Singh, G. Kaur. 1996. Morphological characteristics of sports boys ranging in age from 11 to 19 years. *Ind. J. Sports Sc. Phys. Educ.* 8, 37-49.
79. Singh, S.P. 1995. Growth and maturation in the Himalayas. In *Biology of Highlanders*, eds A.K.Kapoor, Satwanti Kapoor, Vinod Publishers, Jammu.
80. Singh, J., L.S.Sidhu, S.P.Singh & G. Kaur. 1995. Somatotypes of Indian male national cyclists. *Ind. J. Sports Sc. Phys. Educ.*, 7, 33-39.
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82. Singh, J., Sidhu, L.S., Singh, S.P., Kaur, G. 1992. Carpal bone age as assessed by TW2 method in Punjabi sports boys. *Ind. J. Sports Sc. Phys. Educ.*, 4, 79-83.

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84. Singh, S.,P. Malhotra, P. 1991. Physical growth and development in the western Himalayas. In “New Horizons of Human Biology” Eds. I.J.S. Bansal et al. Today and Tommorrow’s Printers, New Delhi, pp 347-359.
85. Singh, S.P., Malhotra, P. 1991. Effect of social class and urbanisation on physical growth of Patiala children. In “New Horizons in Human Biology” Eds. I.J.S. Bansal et al. Today & Tommorrow’s Printers, New Delhi, pp 337-346.
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87. Sidhu, L.S., Singh, J., Singh, S.P. 1990. Physique and body composition of different categories of runners. *Origins of Kinanthropometry*.pp.95-102.
88. Singh, S.P., Malhotra, P. 1990. Physical growth of early and late maturing Gaddi boys of the western Himalayas. *J. Ind. Anthropol. Soc.*, 25, 141-146.
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90. Singh, S.P., Malhotra, P. 1989. Photoscopic somatotypes of selected Olympic athletes by Sheldon and Heath-Carter methods. *Research Biannual*, 8, 29-35.
91. Singh, S.P. 1989. Adult anthropometry, child growth and development in the western Himalayas. A review. In “Human Biology of Asian Highland populations in the Global context”. Eds. A. Basu and R. Gupta, pp 81-104.
92. Malhotra, P. Sidhu, L.S., Singh, S.P. and Malhotra, I. 1989. Serm phosphohexose isomerase in cancer. In ‘Proceedings of National Meeting of young scientists and research fellows on the impact of sciences no human welfare’ held at Patiala from Jan 17 to 19, 1989, Accurasia Press, Patiala, pp 43-51.
93. Malhotra, P., Sidhu, L.S., Singh, S.P. and Malhotra, I. 1989. Estimation of serum transaminases in malignant patients. In ‘Proceedings of national meeting of young scientists and research fellows on the impact of sciences on human welfare’ held at Patiala from Jan 17 to 19, 1989 , Accurasia Press, pp32-42.
94. Verma, S.K., Sidhu, L.S., Malhotra, P., Singh, S.P., Badhbar, D.P. 1988. A study of morpho-physiological characters in different weight categories in Indian weightlifters. *Annali*, 7, 27-39.
95. Sodhi, H.S., Kumar, R., Singh, S.P., Bhatnagar, D.P., Mokha, R. 1988. Modern perspectives of kinanthropometry. Eds. A.K.Bhattacharyya, A.K.Banerjee, Agyajit Singh. IASSPE. Patiala. pp 107-120.
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97. Singh, S.P., Malhotra, P. 1988. Secular shift in menarcheal age of Patiala (India) schoolgirls between 1974 and 1986. *Ann. Hum. Biol.* 15, 77-80.
98. Malhotra, P. , Sidhu, L.S., Singh, S.P. 1988. Body fat and serum phospholipids in neoplastic disorders. *J. Ind. Anthropol. Soc.*, 23, 242-249.
99. Sidhu, L.S., Malhotra, P., Singh, S.P. 1988. ABO and Rh blood groups in diabetes mellitus. *Anthropol. Anz.*, 46, 269-275.
100. Malhotra, P., Sidhu, L.S., Singh, S.P. 1988. Total serum cholesterol in patients with malignant tumours. *J. Ind. Anthropol. Soc.*, 23, 169-175.
101. Malhotra, P., Singh, S.P. 1988. Sexual maturation and physical growth of Patiala girls. *J. Ind. Anthropol. Soc.*, 23, 63-68.

102. Mandira, A., Singh, S.P. 1988. Sexual maturation characteristics in Khatri girls of Patiala, India. *Acta Med. Auxol.*, 20, 125-132.
103. Singh, S.P., Malhotra, P. 1988. Physiological and morphological differences among different categories of Indian National Cyclists. *Hung. Rev. Sports Med.*, 123-130.
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105. Singh, S.P., Sidhu, L.S., Malhotra, P. 1987. Somatotypes of some categories of sportsmen. *Sports Sciences-Health, Fitness and Performance* pp 55-65.
106. Singh, S.P., Malhotra, P. 1987 Menarcheal age of Patiala (India) girls. *Acta Medica Auxolo.*, 19, 59-65.
107. Singh, S.P., Singh, J., Malhotra, P., Kaur, J. 1987 .Morphological profile of female Giddha dancers of Patiala, India. *Annali*, 2, 225-232.
108. Malhotra, P., Sidhu, L.S., Singh, S.P. 1987. Age at menarche and menopause in cancer patients. *J. Ind. Anthrop. Soc.* 22, 47-51.
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Appendix 3.

Ph.D. students guided

.N o.	Name of the student	Title of Thesis	Year of completion
1	Jaswinder Singh	Determination of age from physiological maturity with special reference to age based competitions in sports boys	1992
2.	Abha Mandira	Physical growth and sexual maturation of Khatri boys and girls of semi-urban areas of Punjab aged 6 to 19 years	1993
3.	Sarita Thakur	The effect of senescence on morphological characteristics of Punjabi females	1994

4.	Amrit Pal Kaur	Physical growth and sexual maturation of Jat Sikh girls of low and middle socio-economic classes of Faridkot District	1995
5.	Ranbir Parmar	Growth patterns and body composition of Brahmins and Rajputs of Garhwal Himalayas.	1995
6.	Zora Singh	Developmental age in Jat Sikh boys from 5 to 20 with special reference to skeletal, sexual and dental maturity.	1999
7	Nirlep Kaur	Motor abilities as a predictor of performance in secondary school female volleyball players	2000
8.	Prit Pal Singh	Physical growth of Spitian children with special reference to altitudinal and nutritional stress	2000
9.	Rupinder Kaur	Morphological characteristics and nutrition as determinants of pregnancy outcome in privileged and underprivileged prospective mothers – A longitudinal study	2004
10.	Kamaljit Kaur	Evaluation of physique and body composition of budding athletes in some selected sports.	2004
11.	Dolly Manisha	A study of fat patterning in post menopausal women representing two different socio-economic strata of Chandigarh	2005
12.	Ajit Pal Singh	Somatotype and proportionality profiles of adult males of some traditional occupational groups of Punjab.	2005
13.	Gulshan Veer Kaur	A comparative study of physique, body composition and ageing in women engaged in nursing and clerical professions.	2006
14.	Ginjinder Kaur	Effect of emotional deprivation on physical development and intelligence during adolescence	2006
15	Rupinder Kaur	Somatotype and Physical fitness of employees of Railway workshops	2008
16	Molly J. Thomas	Evaluation of cranio facial architecture from magnetic resonance imaging (MRI) in North West India	2009
17	Gurbinder Singh	Physical growth and development of boys: A case study of Jajjal area of Bathinda stalked by deaths due to pollution.	2010
18	Santosh Sharma	Growth performance and feeding practices in slum children of 0-5 years of Patiala city	2010
19	Jaspreet Kaur	Physical growth performance and obesity prevalence in 10 -16 year old urban girls of Ludhiana, Punjab	2011
20	Gurjeet Kaur	Differences in body composition, somatotype and proportionality profiles of urban and rural women of 50 to 80 years	2015
21	Satinder Kaur	Body Composition of young Punjabi adults: Anthropometric and Bioelectric Impedance Perspectives.	2017
22.	Kulvir Singh	Ageing among elderly: Morphological, physiological and psychological perspectives.	2018

Appendix 4

Educational films for UGC:

Conceived various topics of Human Biology, written their scripts and directed them which were produced by the Educational Multi Media Research Centre of UGC (EMMRC), Punjabi University, Patiala. These were accepted by the UGC and were screened.

Sr.No.	Title
1	Body Beautiful
2	Body Mass Index (BMI)
3	Twins
4	Human Body Composition

5	Child Growth and development
6	Maturity status of children
7	Human Physique

Appendix 5.

National Conferences and Refresher Courses organised

1. Convener, Ist Punjabi University Science Congress, Punjabi University, Patiala, February 28, 2011.
2. Member Organising Committee, National Conference on Recent Advances in Biological Anthropology, Punjabi University Patiala, March 24-26, 2006.
3. Organised as Head, Human Biology department, under Multi faculty millennium series of lectures and seminars, a lecture by Prof Inder Mohan Verma , Salk institute, San Diego, USA on 20th July 2001.
4. Organising Secretary of national seminar entitled “Human Biology at the turn of the millennium”, held at Patiala from Feb 2-4, 1998.
5. Organising Secretary of national seminar on moral education, held at Budha Dal Public School, Patiala during October 1995.
6. Member, organising committee of the UGC National Seminar on New Horizons in Human Biology, held at Patiala, Nov, 1989.
7. Co-ordinator of refresher courses in Human Biology for University and College lecturers, November 2001.
8. Co-ordinator of refresher courses in Human Biology for University and College lecturers, November 2002.

Appendix 6.

Chaired sessions in International Conferences

Chaired two Sessions in the 16th Congress of the International Union of Anthropological and Ethnological Sciences held at Kunming (People’s Republic of China), 27-31 July, 2009:

1. Section 3 of the session: “Menopause, Diversity and Health - Feminization of Ageing and Gender Issues: Asia Region.”
2. Section 3 of the Session “Global Variation in Human Growth and Nutrition”.
3. Chaired a session in “International seminar on applications of anthropological researches in human life” organized by The Asiatic Society, Calcutta from January 7-9, 2009.
4. Chaired a session at International Seminar on Human Biology at Veszprem, Hungary, June 1996 organized by Prof Otto Eiben of Eotvos Lorand University Budapest.
5. Chaired a session at International Conference on physical education and sports science at Ludhiana, 1996, and presented a paper.

Appendix 7. Participation in International and National Conferences, Seminars, Symposia (Selected)

INTERNATIONAL

1. Participated and presented two papers in the 16th Congress of the International Union of Anthropological and Ethnological Sciences held at Kunming (People’s Republic of China), 27-31

July, 2009 and also acted as chairperson for the following Sections of the two Sessions: Section 3: Menopause, Diversity and Health of the session Feminization of Ageing and Gender Issues: Asia Region.

2. Section 3 of the Session “Global Variation in Human Growth and Nutrition”.
3. Presented a paper in “International seminar on applications of anthropological researches in human life” organized by The Asiatic Society, Calcutta from January 7-9, 2009.
4. Delivered a plenary lecture on “Talent identification and developmental status” at the Workshop for National Campers CWG 2010 held at NSNIS Patiala on March 26-27, 2009.
5. Presented a paper at International Seminar on Human Biology at Veszprem, Hungary, June 1996.
6. Presented a paper in Hungarian Indian Workshop on Human growth, Budapest, June 1996.
7. Presented a paper “Somatotypes of some categories of sportsmen” in International Cong of Sports Sciences held at Patiala, Feb 1986.
8. Presented research paper “Genetic differences in physique and morphology of Rajput and Brahmin Gaddis, Himalayas” at Frascati, Rome, Italy in April 1985 in “International Meeting on Genetic Diversity and its maintenance in Tropical Populations”, under the auspices of International Association of Human Biologists (IAHB),
9. As a member of the International Union of Biological Sciences (IUBS) Working group on genetic variation in tropical human populations/Decade of the tropics, co-sponsored with International Association of Human Biologists (IAHB-UK), Society for the Study of Human Biology (SSHB-UK) and 2nd University of Rome, took part in the preparation of a proposal for a collaborative programme of research, 1985. Took part in the deliberations to recommend as to what studies should be carried out as part of the “Decade of the Tropics” initiated by IAHB.
10. Participated and presented a paper “Physical growth of Gaddi Rajputs, Himalayas” in International Symposium held at Punjabi Univ Patiala, Feb 1980.

NATIONAL

11. S.P. Singh. 2019. Delivered an invited lecture in "National Seminar at the Department of Anthropology, Panjab University, Chandigarh, March 2019.
12. S.P. Singh. Delivered a valedictory address at a National conference at Department of Anthropology, Sri Venkateswara University, Tirupati. 2017.
13. S.P. Singh. 2014. Keynote address in "National Seminar on New Areas of Biological Anthropology" held at NEHU, Shillong, November 19-21, 2014.
14. S.P. Singh. 2014. Invited to act as an expert in "Hands-on Workshop in Kinanthropometry" held at GNDU Amritsar, Dept of Sports Medicine and Physiotherapy on Feb 7-8, 2014.
15. S.P. Singh. 2014. Chairperson in one of the sessions of "National Workshop on Anthropological Perspectives of Bio-Cultural change" held at Dept of Anthropology, Panjab University Chandigarh on March 6-7, 2014.
16. S.P. Singh. 2014. Invited speaker in "North Zone Symposium of Anatomy, CME cum Workshop on Craniofacial Anthropometry" held at Dept of Anatomy, Desh Bhagat Dental College and Hospital Sri Muktsar Sahib on March 8-9, 2014.
17. S.P. Singh. 2014. Visiting Professor at Dept of Anthropology, Panjab University Chandigarh on February 20-28, 2014.
18. Delivered an invited lecture on Child growth at a National Seminar in Dept of Anthropology, Pune University, Pune on March 2013.

19. Co-Chaired a session in National Conference on “Opportunities and Challenges in physical education” organized by the Department of Physical Education, Punjabi University, Patiala from Feb 10-11, 2009.
20. Co-chaired a session in the UGC SAP seminar organized by Department of Anthropology, Panjab University Chandigarh from March 16-17, 2007.
21. Delivered an invited lecture “Technique of body measurements” at the National Workshop on “Sports Training: A multi-disiplinary approach” organized by Director Sports, Guru Nanak Dev University, Amritsar on March 21-22, 2009.

Appendix 8.

Membership of Professional Bodies/Organizations

No.	Name of professional bodies/Organisations	Country
1.	Indian Anthropological Association (IAA)	India
2.	Indian Science Congress Association (ISCA)	India
3.	International Union of Anthropological & Ethnological Sciences	International –till 2010
4.	National working group on Kinanthropometry (NWGK)	India
5.	National association of physical education & sports science (NAPESS)	India
6.	Indian association of sports science and physical education (IASSPE)	India

Appendix 8.

Editorial assignments

- Editor-in-Chief of a quarterly research journal “HUMAN BIOLOGY REVIEW” (ISSN 2277 –4424). Journal website: www.HumanBiologyReview.com and www.HumanBiologyJournal.com Published regularly on time since 2012.
- Sitting Editor for Journal of Physiological Anthropology, Japan to handle the incoming research papers and assigning referees for them.
- Peer Reviewer for a number of scientific journals (American Journal of Human Biology, Journal of Physiological Anthropology, International Journal of Diabetes in Developing Countries (JDDC), Journal of Human Ecology, The Anthropologist).
- Associate Editor of Ind. J. of Physical anthropology & Human Genetics, 2004, Lucknow.
- Member, National Expert Panel on Anthropology to design e-content by NSDL, N.Delhi.
- Editor of Human Biology Section of Children’s Encyclopaedia (In Punjabi). 2006.
- Editor of Special volume of the Journal, *Vigyan De Naksh* (Human Body – Face –to-Face with New inventions), Punjabi Univ., 2002.
- Editor of a special volume of Ind. J. of Sports Science and Phys. Educ., 2003, IASSPE, Patiala.
- Editor of a special volume of Ind. J. of Physical anthropology & Human Genetics, 2004, Lucknow.
- Editor of a volume of J. Human Ecology on Body Composition, 2006, Delhi.
- Member, editorial board, J. Human Ecology, Delhi