




**INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI**



Name	Prof Geeta Trilok-Kumar	Photograph
Designation	Director	
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Educational Qualifications:

- BSc Miranda House, Delhi University
- MSc Nutrition, National Dairy Research Institute (ICAR)
- MS Nutritional Sciences (University of Guelph, Canada),
- PhD in Nutrition (Jointly by Delhi University and AIIMS) on a clinical trial conducted by All India Institute of Medical Sciences, New Delhi
- Post-doctoral experience at London School of Hygiene and Tropical Medicine, London on Commonwealth Scholarship
- Short Term courses "Introductory course in Epidemiological Analysis" (three weeks) and "Intensive course on Epidemiology and Medical Statistics" (two weeks) from London School of Hygiene and Tropical Medicine, London in 2014 and 2015, respectively

Teaching experience: 30 years teaching Undergraduate and Post graduate Students in the Department of Nutrition and Biochemistry, IHE
Vising Faculty, Amity University, 2012-2014

Subjects/Papers Taught:

- Nutritional Biochemistry both to BSc and MSc students
- Carbohydrates and Lipids
- Vitamins and minerals

Awards received:

1. Academic award for standing first in the Master's program at National Dairy Research Institute, Karnal, India
2. Full Fellowship (with tuition fee) to do Master's degree at University of Guelph, Canada
3. Four week training fellowship to do a training course in spectroscopic techniques for micronutrient estimations at University of Bergen, Norway, in Sept 1998
4. Commonwealth Academic Fellowship to do post-doctoral work at London School of Hygiene and Tropical Medicine, UK, 2006
5. DSM travel award to present at the Micronutrient Forum meeting at Beijing 2009
6. Wellcometrust Senior Fellowship in Public Health 2018-2023

Key Assignments

1. Member Steering committee for Healthy Lifestyle Trajectories Initiative, A multi-country Initiative under Department of Biotechnology, Government of India March 2021 onwards.
2. Member Governing Body, Central Board of Secondary Education (CBSE), Government of India from 2020-2023
3. Member, NCD Policy Group for the Comprehensive National Nutrition Survey (CNNS) constituted by Ministry of Health and Family Welfare, Govt. of India, 2020.
4. Chairperson Task Force on "Balanced & Healthy Diets" set up by Nutrition & IDD Cell, Directorate General Health Services, Ministry of Health & Family Welfare, Government of India, 2019 -2021
5. Member, UK Research Initiative (UKRI) college for reviewing project proposals for UK funding agencies (MRC, Newton fund, BBRC, etc.) since 2017.
6. Member Scientific Advisory Committee, National Institute of Nutrition, Hyderabad 2018-21.
7. Member Data Safety Monitoring Board for a WHO study "improving linear growth of children in low resource settings through integrated nutrition, wash, care and support interventions during the pre- and peri-conceptual period, pregnancy and early childhood - a randomized controlled trial since 2018.
8. Member, Early Childhood Development, Anthropometry & Hand Grip Strength and Adolescent Nutrition Subgroup, Comprehensive National Nutrition survey, Government of India.
9. Member, Technical Advisory Group, Comprehensive National Nutrition Survey, Ministry of Health & Family Welfare, Govt. of India & UNICEF, 2015 onwards.
10. Member 1st level screening committee under grant-in-aid scheme of Dept of Health Research, Ministry of Health & Family Welfare, Govt. of India, 2014 onwards.
11. Member Task Force on 'Public health and Food and Nutritional Interventions' at DBT July 2013
12. Member Task Force of ICMR on 'Role of diet and Lifestyle in relation to hypertension' 2015.
13. Member of Scientific Advisory Committee (SAC) of National Agri-Food Biotechnology Institute (NABI) from 2016-2019
14. Member Steering Committee for technical and financial review of the proposal under the DBT-CIHR led Indo Canadian HELTi initiative, 2017
15. Member HBGDKi consortium India-A Gates foundation led Initiative. Analysis of pooled data 2016 onwards.
16. Member collaborative consortium group conducting an Individual Patient Data(IPD) Meta-analysis of Randomized Clinical Trials of Vitamin D Supplementation to Prevent Acute Respiratory Infection.
17. Member "Gates Foundation-Tufts University project on diet policy and cost-effectiveness in their target countries of India, Bangladesh, and Nepal.
18. Consultant, UNICEF-MoHFW, Government of India micronutrient assessment study on preschool, school age and adolescents in 30 states of India.
19. Invited expert for Indo-French Workshop on Scientific Cooperation for Agricultural Research during March 9-11, 2015
20. Invited Member of core group, Ministry of Women and Child Development, allocation of food grains under wheat based Nutrition program since 2011.
21. Invited member at Public Health Foundation of India for consultation to develop a course architecture and curriculum for master's program in Clinical Research.
22. Reviewer on cdac online proposals and Invited member project proposals review group at ICMR, New Delhi.
23. Reviewer on ePromis online proposals and invited to evaluate several project proposals submitted at Department of Biotechnology(DBT), Government of India, New Delhi.
24. Reviewer for SERB, DST.
25. Invited member of several selection committees at The Indian Council of Medical Research, New Delhi on a regular basis.
26. Founder member secretary, Institutional Ethics Committee, Institute of Home Economics
27. Reviewer for Global Health projects, International and national nutrition publications, international and national projects from DBT, ICMR, MRC, etc.
28. Examiner for PhD and upgrading committee of PhD students at London School of Hygiene and Tropical Medicine. Also co-supervisor of a few MSc students at the school from 2009 onwards.
29. Appointed Examiner for PhD thesis, University of Bergen Norway on 2nd Aug 2020.

Research Interest/Specialization:

Maternal and child Nutrition
 Micronutrients
 Developmental Origins of health and Disease

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Key Research Grant Details

1. Long-term health after severe acute malnutrition (SAM): the role of the Pancreas- (SAMPA). Funding for three years for £2 million from Medical Research Council, UK. (2021-2024).
2. To improve understanding of the interactions among intra-uterine growth retardation, early growth, vitamin D supplementation, intestinal permeability, body fat content and distribution, diet, and physical activity in order to develop interventions to decrease the risk of chronic diseases in Indian children born low birth weight (LBW) at term.
 Funding for 5 years: Rs 5 crore from Wellcometrust/DBT Senior fellowship in Public Health 2018-2023.
3. Body composition, early growth, and chronic disease risk of school-aged children who were born low birth weight at term.
 Funding for two years for Rs. 58,02,517 from Department of Biotechnology, Government of India for two years.
4. India- New Zealand Education Council grant- Nutritional status of young children living in slums of south Delhi
 Funding for two years- NZD 53, 463 by UGC and New Zealand Research Council
5. UGC- UKIERI Thematic partnership. Statistical and epidemiological capacity building to enhance India-UK collaboration.
 Funding for two years-£ 54542 by UGC and British Council
6. Trial of vitamin D supplementation to prevent acquisition of latent tuberculosis infection in schoolchildren (ViDiKids)
 Funding for five years- £ 2.9 million from Medical Research Council (MRC), UK
7. Effect of vitamin D supplementation in infancy on bone and lean mass, growth and function in childhood.
 Funding for two years by Department of Biotechnology, Govt of India for Rs 75,72,600
8. Assessment of microbiological quality of street foods of Delhi.
 Funding for two years by Indian Council of Medical Research for Rs 9,98.132
9. Randomized controlled trial to evaluate the preventive effect on mortality and serious morbidity/ hospitalizations of daily vitamin D supplements in small for gestational age term infants
 This trial was co-funded by three funders for a period of 3 years.

Funding agency and	Amount
1. Department of Biotechnology, (Government of India)	Rs1.84 lakhs
2. Nutrition Third World	USD 45,000
3. Sight and Life	USD 15,000

LIST OF KEY PUBLICATIONS since 2010 (International journals)

1. Malik A, Gusain Y, Pathak R, **Trilok-Kumar G**. Nutrient intakes of 9-12 years old children born low birth weight using the new Estimated Average Requirement (EAR). **J Clinical Diagnostic Research** 2021;15 (June) OC23-OC28.
2. Jolliffe DA,.....**Trilok-Kumar G**.....Martineau AR. Vitamin D supplementation to prevent acute respiratory infections: a systematic review and meta-analysis of aggregate data from randomised controlled trials. **Lancet Diabetes Endocrinol** 2021; 9: 276–92.

3. Malik A and **Trilok-Kumar G**. Status of Vitamin B₁₂ among healthy adult and elderly population in India: A Review. **J Nutr Vitaminol** (Tokyo) 2020; 66 (Supplement): S361-368. Doi:10.3177/jnsv.66. S361.
4. Houghton LA, McIntosh DR, **Trilok-Kumar G**, Haszard JJ, Gibson RS. Suboptimal feeding and caring practices among young Indian children ages 12 to 24 months living in the slums of New Delhi. **Nutrition**. 2020 **Jan**; 69:110553. doi: 10.1016/j.nut.2019.110553. Epub 2019 Jul 16
5. Filteau S, **Kumar GT**, Cole TJ, Sachdev HS, De Stavola BL Steady Growth in Early Infancy Is Associated with Greater Anthropometry in Indian Children Born Low Birth Weight at Term **J Nutr**. 2019 **Jun 8**. pii: nxz113. doi: 10.1093/jn/nxz113.
6. Abraham RA, Agrawal PK, Acharya R, Sarna A, Ramesh S, Johnston R, de Wagt A, Khan N, Porwal A, Kurundkar SB, Pandey A, Pullakhandam R, Nair KM, **Kumar GT**, Sachdev HPS, Kapil U, Saxena R, Deb S, Khera A, Ramakrishnan L. Effect of temperature and time delay in centrifugation on stability of select biomarkers of nutrition and non-communicable diseases in blood samples. **Biochem Med (Zagreb)**. 2019 Jun 15;29(2):020708. doi: 10.11613/BM.2019.020708
7. Malik A, Eggersdorfer M, **Trilok-Kumar G**. Vitamin E status in healthy populations of Asia: a review of current literature. **Int J Vitam Nutr Res**. 2019 May 24:1-14. doi: 10.1024/0300-9831/a000590.
8. Houghton LA, **Trilok-Kumar G**, McIntosh D, Haszard JJ, Harper MJ, Reid M, Erhardt J, Bailey K, Gibson RS(2019). Multiple micronutrient status and predictors of anemia in young children aged 12-23 months living in New Delhi, India, **Plos one**, 2019 Feb 8;14(2):e0209564. doi:10.1371/journal.pone.0209564. eCollection 2019.
9. Martineau AR,..... **Trilok Kumar G**, Urashima M, Camargo CA, Griffiths CJ, Hooper RL. Vitamin D supplementation to prevent acute respiratory infections: individual participant data meta-analysis. **Health Technol Assess**. 2019 Jan;23(2):1-44. doi: 10.3310/hta23020
10. Gupta S., Arora, K. and **Trilok-Kumar, G**. (2018). Zinc Content of Cereals and Pulses in Delhi. **Indian J Nut and Dietetics**, 55(2): 227-241.
11. Masters WA, Rosettie KL, Kranz S, Danaei G, Webb P, Mozaffarian D; Global Nutrition and Policy Consortium. Designing programs to improve diets for maternal and child health: estimating costs and potential dietary impacts of nutrition-sensitive programs in Ethiopia, Nigeria, and India. **Health Policy Plan**. 2018 May 1;33(4):564-573. doi: 10.1093/heapol/czy013.
12. Anuradha, Sahu MK, Bipin C, **Trilok-Kumar G**. Nutritional challenges in Pediatric Congenital Cardiac Care. **Int J Science Healthcare Res** 2018;3(4): 172-179
13. Kumar B, Bhat ZI, Bansal S, Saini S, Naseem A, Wahabi K, Burman A, **Kumar GT**, Saluja SS, Rizvi MMA. Association of mitochondrial copy number variation and T16189C polymorphism with colorectal cancer in North Indian population. **Tumour Biol**. 2017 Nov;39(11):1010428317740296. doi: 10.1177/1010428317740296
14. Martineau AR.....**Trilok-Kumar G**... et al . Vitamin D supplementation to prevent acute respiratory tract infections: systematic review and meta-analysis of individual participant data. **BMJ** 2017, Feb 15;356:i6583
15. Martineau, DA Jolliffe, RL Hooper, L Greenberg, JF Aloia, P Bergman, **Trilok-Kumar G**.... Protective effects of vitamin D supplementation against acute respiratory infection are greatest in those with the lowest baseline vitamin D status. **European Respiratory Journal** 48 (suppl 60), OA1766.
16. Filteau S, Rehman AM, Yousafzai A, Chugh R, Manpreet Kaur, Sachdev HPS, **Trilok-Kumar G**. Associations of vitamin D status, bone health and anthropometry with gross motor development and performance of school-aged Indian children who were born low birth weight. **BMJ Open**. 2016 Jan 8;6(1):e009268. doi: 10.1136/bmjopen-2015-009268
17. **Trilok Kumar G**, Kaur M, Rehman AH, Arora H, Rajput MM, Chugh R, Kurpad A, Sachdev HPS, Filteau S. Effect of vitamin D supplementation in infancy on growth, bone parameters by quantitative ultrasound, body composition and gross motor development at age 3-6 years: follow-up of a randomised controlled trial. **International J Epidemiology** 2015 Jun; 44(3): 894-905.
18. R Chugh, H Arora, M Kaur, M Rajput, **GT Kumar**. Supplementation but not sunlight exposure improves vitamin D status of young women in India. **European Journal of Nutrition & Food Safety**, 1116-1117
19. **Trilok-Kumar G**, Arora H, Rajput M, Chellani H, Singh V, Raynes J, Arya S, Aggarwal S, Srivastava N, Sachdev HP, Filteau S Effect of vitamin D supplementation of low birth weight term Indian infants from birth on cytokine production at 6 months. **Eur J Clin Nutr**. 2012 Jun;66(6):746-50

20. **Kumar GT**, Sachdev HS, Chellani H, Rehman AM, Singh V, Arora H, Filteau S. Effect of weekly vitamin D supplements on mortality, morbidity and growth of low birth weight term infants in India upto age 6 months: randomized controlled trial. **BMJ. 2011 May 31;342: d2975**
21. Pahwa S, **Kumar GT**, Toteja G Performance of a community based health and nutrition—education intervention in the management of diarrhea in a slum in Delhi, India. **J Health Popul Nutr. 2010, 28(6):553-9**

Book chapters published/edited

1. Contributor to the book "Nutrition for developing countries" Edited by Felicity Savage King, Ann Burgess, Victoria J. Quinn, and Akoto K. Osei, Oxford University press 2015
2. Two e- chapters "Monosaccharides" and "Fat soluble vitamins" for Institute of Life Long learning , Delhi University in 2014.
3. A ten-chapter Practical Manual for MSc nutritional biochemistry course at Indira Gandhi National Open University'. 2007.
4. An e-chapter on 'Nutritive and calorific value' for National Institute of Science Communication and Information Resources (NISCIIR) in 2007. nsdl.niscair.res.in/jspui/handle/123456789/414.
5. Member vetting panel of the "People's User-friendly Resource for Practising and Learning to Eat –PURPLE Book for Diets in Disease" published by FSSAI, India, 2020

Association with Professional Societies

American Society of Nutrition
International Society for Developmental Origins of Health and Disease

KEY INTERNATIONAL AND NATIONAL PRESENTATIONS

1. "To Improve Understanding of Interactions Among Intra- Uterine Growth Retardation, Early Growth, Body Fat and Risk of Chronic Disease in Low-Birth Weight Children" at the American society for nutrition conference 2020 held at Seattle, USA from 29th May -2 June 2020.
2. 'Each for Equal in Science Education & Research' panelist on the occasion of International Women's Day 2020 organised by Vigyan Prasar, Department of Science and Technology, Government of India on 8th March 2020.
3. Invited panelist by GCRF, UKRI at the regional symposium on "The Role of Gender in South Asian Food Systems" in Dhaka, Bangladesh; 23rd – 24th February 2020.
4. My journey in science at the "The Explorer Series, launched in 2018 to commemorate the 10th year of the Wellcome Trust/DBT India Alliance on 6th Jan 2020. Invited speaker.
5. "International conference in biochemistry and biotechnology to combat human diseases" jointly being organised by Department of Biochemistry, University of Delhi South Campus and Shivaji college, Delhi University on Feb12-13, 2020. Invited speaker.
6. Invited member to attend UK Research Initiative(UKRI) meeting as member to shortlist thrust areas in funding held at Cairo, Egypt form Feb 5-6 2019.
7. "Infant growth trajectories and childhood growth status in India" at the Dual Burden of Malnutrition meeting organised by IAEA Vienna from 10-13th Dec 2018, Poster presentation.
8. "Vitamin D and Human Health" at the Nutrition Society of India meeting from 4-5th November, 2016 in Hyderabad-Invited Speaker.
9. Oral Presentation 'Vitamin D supplementation in Indian children and its long term effects' on March 10, 2016 at University of Dunedin, Department of Nutrition Seminar
10. Invited speaker, "*Vitamin D and health, the current Scenario*" at the 47th Annual National Conference of Nutrition Society of India, held at Hyderabad from 8-10th Oct 2015.

11. "Early childhood growth in term low birth weight Indian newborns: Follow-up of Delhi Infant Vitamin D Supplementation Study, India" at 9th World Congress on Developmental Origins of Health and Disease, Cape Town, South Africa, 8-11 November 2015. Poster presentation.
12. "Supplementation but not sunlight exposure improves vitamin D status of young girls in Delhi" at the Micronutrient Forum meeting at Addis Ababa, Ethiopia in June 2014. Poster presentation.
13. Oral presentation at LSHTM invited seminar on " Vitamin D and child growth" in June 2014
14. Vitamin D and Human Health: From the Gamete to the Grave' in QMUL London from 23-25th April 2014- Invited speaker and poster "Effect of vitamin D supplementation in infancy on bone mineral density in children aged 3-6 years: follow-up of a RCT", Invited speaker.
15. 'Vitamin D in Low birth weight infants' on 23rd Nov 2012, Nutrition Foundation of India, Invited speaker.
16. 'Calcium requirements, intake and bioavailability.' at the Indian Society for Bone Mineral Research meeting at Lucknow on 29th Sept, 2012 - Invited speaker.
17. 'Vitamin D in infants' at the Indian Medical Association Poona Chapter meeting held at Courtyard Marriott Hotel on 10th July, 2012.-Invited speaker.
18. 'Health Impacts of Vitamin D in infancy' at the Vitamin D symposium held at the Asian Congress of Nutrition, Singapore from July 13-16, 2011- Invited speaker.
19. Invited speaker by London School of Hygiene and Tropical Medicine and ICICI Centre for Child Health and Nutrition to chair a session '**The Unfinished Agenda of Maternal and Child Health.**' and participate in the deliberations in the conference " Exchange of Research Experiences ' held at the India Habitat Centre (IHC) New Delhi on 3rd to 4th March, 2011.
20. 'Effect of weekly vitamin D supplements to Indian low birth weight term infants on mortality, morbidity, and growth in the first 6 months of life: a randomized controlled trial' at the Joint meeting of the American Society for Nutrition and the Nutrition Society (Irish section) held in Cork, Ireland to deliver from 15-17th June 2011- Oral presentation.
21. 'Breastfeeding status of infants born to urban mothers from higher socioeconomic strata' nineteenth International Congress of Nutrition, held at Bangkok, Thailand from Oct 4-10th, 2009-Poster.
22. 'Zinc and copper content in Indian cereals and pulses' at the Micronutrient Forum meeting held at Beijing from 12-15 May, 2009 on a DSM travel award-Poster

CONFERENCES/WORKSHOPS ORGANISED IN THE LAST TEN YEARS

1. Coorganiser, 10th India Probiotic Symposium: Cutting edge Science and Applications; Intestinal Microbiota and Probiotics, held at Hotel Surya from 29th Feb 2020-1st March 2020.
2. Four workshops on advanced statistics for "Analysis of health data" conducted from November 2015 to December 2016 jointly organized by Department of Medical Statistics, London School of Hygiene and Tropical Medicine and our team at the Institute of Home Economics.
3. Workshop on "Nutritional Assessment" conducted for faculty and students by Prof Rosalind Gibson, University of Otago, New Zealand 2014
4. "Introduction to STATA for Medical statistics" Workshop conducted jointly by Dr Tim Collier, Department of Medical Statistics, London School of Hygiene and Tropical Medicine and Dr Trilok-Kumar, 2014.
5. Member, Organising committee 'Conference on Sustainable development' organised by IHE 2012.
6. Organising Secretary, International conference on 'Emerging role of Vitamin D in Health' 2011.