

BALAJI SEDITHIPPA JANARTHANAN

Ph.D. (Agricultural Economics) (IARI, New Delhi)

Fulbright Fellow & Postdoc Researcher (University of Georgia, USA)

Visiting Fellow (International Food Policy Research Institute, Washington DC, USA)

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PROFESSIONAL EXPERIENCE

Professor

[Since April 30, 2026]

Agricultural Economics Research Unit

Institute of Economic Growth

Delhi

Senior Scientist (Agricultural Economics)

[From July 01, 2015 to April 29, 2026]

ICAR-National Institute of Agricultural Economics and Policy Research (NIAP)

New Delhi

Key functions: Research, policy analysis, project management

Fulbright Fellow, University of Georgia, Athens, USA

Program: Fulbright Nehru Postdoctoral Research Fellowship. Sep 01, 2022 – Aug 31, 2023

Visiting Fellow, International Food Policy Research Institute, Washington DC, USA

- Oct 21 – 25, 2024 (Foresight Initiative)
- May 22 – July 22, 2023 (Part of Fulbright Fellowship)
- July 2 – 30, 2019 (Uma Lele-AERA (India)-AAEA Mentorship Program)

Key Roles

- Member (NIAP's team as a Knowledge Partner): Committee to prepare Concept Notes and Background Papers for BRICS Chairship of India, For the Ministry of Agriculture & Farmers Welfare, Government of India
- Member (NIAP's research team): Committee on Doubling Farmers Income, Ministry of Agriculture & Farmers Welfare, Government of India

Skills/Expertise:

- Large-scale household survey data extraction and analysis
- Analysis of large-scale macroeconomic data - investments, subsidies, wages etc.
- Time series, panel, and simultaneous equation models
- Spatial econometrics
- Social Accounting Matrix (SAM) based simulation

Areas of interest:

- Food systems transformation
- Agricultural Growth and Development
- Quantitative Policy Analysis
- Input-Output (IO) models and Social Accounting Matrices (SAM)
- Partial Equilibrium Models and Computable General Equilibrium (CGE) Models
- Spatial Econometric models

Software knowledge: STATA (proficient), R, GAMS

EDUCATION

Indian Agricultural Research Institute, New Delhi, India

PhD (Agricultural Economics), 2011-2017

Thesis: “Agricultural Growth, Rural Non-Farm Employment and Rural Poverty in India”

Committee: Dr. Suresh Pal, Dr. Alka Singh, Dr. Amit Kar, Dr. Girish K Jha, and Dr. Rabindranath Padaria

Tamil Nadu Agricultural University

Coimbatore, Tamil Nadu, India

MSc (Agricultural Economics), 2009-2011

Agricultural College and Research Institute

(Tamil Nadu Agricultural University)

Madurai, Tamil Nadu, India

BSc (Agriculture), 2003-2007

AWARDS

1. **Fulbright-Nehru Postdoctoral Research Fellowship (Sep 01, 2022 – Aug 31, 2023)**
Title of research proposal: What makes the Indian farmers rich and poor? A spatio-temporal analysis of resource heterogeneity, technology uptake, agricultural policy support and its consequences on income distribution
Host institution: University of Georgia, USA
Awarded by: United States – India Educational Foundation (USIEF)
2. **R.T. Doshi Award. 2020**
Title of manuscript: Structural transformation, export promotion policy options, and their impact on the Indian economy: a social accounting matrix (SAM) approach
Awarded by: The Agricultural Economics Research Association, India (AERA-India)
3. **Young Agricultural Economist Award. 2020**
Awarded by: The Agricultural Economics Research Association, India (AERA-India)

4. **Uma Lele-AERA (India)-AAEA Mentorship Award. 2018**
Title of proposal: Structural transformation in India: Impact on farm output and implications on farmers' welfare
Collaboration: International Food Policy Research Institute, Washington DC
Awarded by: Agricultural & Applied Economics Association (AAEA), USA
5. **R.T. Doshi Award. 2018**
Title of manuscript: Are wages paid more in agriculture than productivity? Equilibrium and divergence in India
At: XXVI Annual AERA conference, Haryana, India
Awarded by: The Agricultural Economics Research Association, India (AERA-India)
6. **Best research paper presentation award. 2015**
Title of manuscript: Structural breaks, yield plateaus and long-run yield trends in Indian agriculture
At: LXXV Annual ISAE conference, Punjab, India
Awarded by: The Indian Society of Agricultural Economics (ISAE), India

RECOGNITIONS

1. **Moderator & Discussant:** South Asian Agriculture in the Twenty-first Century: Poverty Alleviation and Sustaining Resources. July 24, 2023. Session 3559, 2023 AAEA Annual Meeting, Washington DC, USA, July 21-26, 2023. (Moderator: with Kathy Baylis & Gopinath Munisamy)
2. **Outreach interview:** UGA Today. "Meet UGA's International Fulbright Visiting Scholars", March 29, 2023. <https://news.uga.edu/meet-ugas-international-fulbright-visiting-scholars/> (at the University of Georgia, USA)
3. **Speaker,** Mentoring Session for 2024-2025: Fulbright-Nehru Postdoctoral Research Fellowship, June 23, 2023, New Delhi, India (online)
4. **Co-convenor:** Brainstorming Session on Agriculture and Food Policy for Five Trillion Dollar Economy. Organized by: National Academy of Agricultural Sciences (NAAS) on October 14, 2020. New Delhi, India

PROJECTS HANDLED

1. Project: **BRICS partnership: Welfare implications for Indian agriculture**
 Funding agency: Institute funded (ICAR-NIAP)
 Position: Principal Investigator
 Duration: August 2025 – Feb 2026
2. Project: **Reinforcing transformation dynamics: a deep-dive into India's food systems' problems and social optimum**
 Funding agency: Institute funded (ICAR-NIAP)

Position: Principal Investigator
Duration: January 2025 – Feb 2026

3. Project: **Re-examining Farm Size – Productivity relationships in Indian agriculture**
Funding agency: Institute funded (ICAR-NIAP)
Position: Principal Investigator
Duration: December 2023 – Feb 2026
4. Project: **Trade policy in oilseed complex: Effect on consumption, processing, import and welfare of India**
Funding agency: Institute funded (ICAR-NIAP)
Position: Co-Principal Investigator
Duration: July 2024 – Feb 2026
5. Project: **Farmers' income, governance impacts and agricultural trade (Network project, component IV)**
Funding agency: Institute funded (ICAR-NIAP)
Position: Principal Investigator
Duration: April 2021- Feb 2026
6. Project: **Foresight and Metrics to Accelerate Food, Land, and Water Systems Transformation (Foresight)**
Funding agency: Bioversity International, Rome, Italy
Position: Principal Investigator
Duration: October 2023 – December 2024
7. Project: **The Ukraine War and its Food Security Implications in South Asia**
Funding agency: International Food Policy Research Institute (SA Office, New Delhi)
Position: Principal Investigator
Duration: January 2023 – March 2023
8. Project: **Doubling Farmers' Income in India by 2022: Estimating Farm Income and Preparation of Strategic Framework**
Funding agency: Ministry of Agriculture and Farmers' Welfare
Position: Co-Principal Investigator
Principal Investigator: Dr. Raka Saxena
Duration: April 2017 – December 2023
9. Project: **COVID-led Changes in Agricultural Sector and Food Consumption**
Funding agency: Institute funded (ICAR-NIAP)
Position: Co-Principal Investigator
Principal Investigator: Dr. SK Srivastava
Duration: April 2020 – March 2023
10. Project: **Network Project on Structural Transformation, Regional Disparity and Institutional Reforms in Agriculture**

Funding agency: Institute funded (ICAR-NIAP)
 Position: Co-Principal Investigator
 Principle Investigator: Dr. Suresh Pal
 Duration: Since October 2017 – March 2021

11. Project: **Rural Nonfarm Sector in India: Trends, Structural Changes, Farm Growth and Poverty Linkages**

Funding agency: Institute funded (ICAR-NIAP)
 Position: Co-Principal Investigator
 Principal Investigator: Mr. Subash SP
 Duration: October 2017-March 2020

12. Project: **Impact Assessment of Agricultural Research and Development**

Funding agency: Indian Council of Agricultural Research
 Position: Co-Principal Investigator
 Principal Investigator: Dr. Shiv Kumar
 Duration: January 2015-March 2017

13. Project: **Mainstreaming Adaption Policies in Development Planning to Enhancing Resilience of Indian Agriculture**

Funding agency: National Initiative on Climate Resilient Agriculture
 Position: Co-Principal Investigator
 Principal Investigator: Dr. Naveen P Singh
 Duration: August 2015-March 2017

14. Project: **Identifying Pathways of Socio-Economics and Socio-Personal Attributes and Study their Influence on Agricultural Performance across Different Agro-Ecosystems in India**

Funding agency: Indian Council of Agricultural Research
 Position: Co-Principal Investigator
 Principal Investigator: Dr. Naveen P Singh
 Duration: August 2016-March 2017

POLICIES/MODELS/TECHNOLOGIES DEVELOPED (CERTIFIED BY ICAR)

S.N.	Type of innovations/developments	Title of innovations/developments	Name of the Scientist(s)
1	Model	An economy-wide model to estimate farm subsidies that governments can save by transitioning to a millet-based (Jowar/Bajra) production system, replacing emission-intensive crops (Rice/Wheat)	Balaji, S.J.
2	Policy	A strategic framework to accelerate agricultural exports in India	Raka Saxena, Pratap S. BIRTHAL, R.C. Agrawal,

			Purushottam Sharma, Ranjit K. Paul, Balaji S.J., Devesh Kumar Pant and Neha Joshi
3	Model	A methodological approach for farm income convergence measurement across distribution over space with spatial interactions	Balaji, S.J. and Gopinath, M.
4	Policy	The Ukraine war and its food security implication for India	Balaji, S.J and Babu, S.
5	Policy	Technology and policy options for reducing India's import dependence on edible oils	Balaji, S.J., Sharma, P., Venkatesh, P., and Shreya, K.
6	Policy	India's agricultural exports during the covid-19 pandemic	Saxena, R., Paul, R.K., Balaji, S.J., and Kumar, R.
7	Policy	Indian agriculture in transition: household-level evidence	Saxena, R., Srivastava, S.K., Balaji, S.J., and Jhahhria, A.

TRAINING/DEVELOPMENT/CAPACITY BUILDING

INTERNATIONAL

1. "Advance-level capacity building training focusing on IFPRI's Computable General Equilibrium (CGE) model for sustainable agri-food system policy analysis"
Offered by: International Food Policy Research Institute, Washington DC
Offered at: Tribhuvan University, **Kathmandu, Nepal**. December 7-10, 2024
2. "Workshop on International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT) Model"
Offered by & at: International Food Policy Research Institute, **Washington DC, USA**. October 21-25, 2024
3. "International Capacity Building Training Program on Computable General Equilibrium (CGE) Modeling for Economic Policy Analysis"
Offered by: International Food Policy Research Institute, Washington DC
Offered at: **ICAR-IARI, New Delhi**. April 29 - May 3, 2024
4. "Foresight Partnership Forum and capacity building training"
Offered by: International Food Policy Research Institute, Washington DC
Offered at: Dusit Princess, **Kathmandu, Nepal**. April 16-19, 2024
5. "South Asia Regional Workshop on Climate Change and Economy-Wide Modelling"

Offered by: International Food Policy Research Institute, Washington DC
Offered at: Tamil Nadu Agricultural University, **Coimbatore, Tamil Nadu**. February 20-23, 2024

6. “International Training Program on Computable General Equilibrium (CGE) Modeling for Policy Analysis”
Offered by: International Food Policy Research Institute, Washington DC
Offered at: IFPRI South Asia Office, **New Delhi**. April 4 – May 18, 2022
7. “STEG (Structural Transformation and Economic Growth) Virtual Course on Key Concepts in Macro Development”
Offered by: Centre for Economic Policy Research (CEPR), **London**, in collaboration with UKAID. February 5 – May 7, 2021 (different dates). **Online**
8. “Introduction to Economy-Wide Modelling”
Offered by: International Food Policy Research Institute, **Washington DC, USA**. October 2019 to January 2020. **Online**
9. “International Model for Policy Analysis of Agricultural Commodities and Trade (IFPRI-IMPACT)”
Offered by the International Food Policy Research Institute, Washington DC, USA
Offered at: ICAR-NIAP, **New Delhi**, November 4-8, 2019
10. “Workshop on Agricultural Transformation, Bali, Indonesia”
Offered by: Asian Productivity Organization, Japan
Offered at: **Bali, Indonesia**. September 30 to October 4, 2019

NATIONAL

1. “Faculty development program on Structural Equation Modelling using AMOS”
Organizer: International Management Institute (IMI), New Delhi. January 24-25, 2019
2. “Quantitative Methods for Social Sciences”
Organizer: ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, September 2021-October 11, 2019

PUBLICATIONS

JOURNAL ARTICLES

1. Das, B., Sah, S., Reddy, K.V., **Balaji, S.J.**, Desai, S., Mahajan, G., Singh, P., Saha, S., Uthappa, A.R., Kumar, P., Sehgal, V.K., Singh, R.N., and Shetkar, D.A. (2025) Assessment of climate change vulnerability of agriculture in coastal districts of India using principal component analysis and entropy-based methods. *Theoretical and Applied Climatology*, 156(7), Article No 409. <https://doi.org/10.1007/s00704-025-05623-8>

2. **Balaji, S.J.** (2024) Saving farm subsidies with smart climate interventions: the case of transition to a millet-based agriculture. *China Agricultural Economic Review*, 16(2), 249-266. doi.org/10.1108/CAER-05-2023-0129
3. **Balaji, S.J.** and Gopinath, M. (2023) Spatial growth and convergence in Indian agriculture. *Agricultural Economics*, 54(6), 761-777. <https://doi.org/10.1111/agec.12807>
4. **Balaji, S.J.**, Umanath, M. and Arun, G. (2021). Welfare gains of inward-looking: an ex-ante assessment of General Equilibrium impacts of protectionist tariffs in India's edible oil imports. *Agricultural Economics Research Review*, 34: 1-20.
5. **Balaji, S.J.**, G Arun, Suresh C Babu, and Suresh Pal. (2021). Machine learning algorithms for quarterly GDP forecasting: a performance evaluation. *The Journal of Income and Wealth*, 43 (1&2): 1-15.
6. **Balaji, S.J.** (2021). Product-clusters, export promotion and agricultural growth: a partial assessment of India's relative competitiveness in light of the Agricultural Export Policy 2018. *Indian Journal of Agricultural Marketing*, 35(1): 106-114.
7. Kumar, S, Kumar, N.R., Jain, R., **Balaji, S.J.**, Jhahhria, A., Bangaraju, S.V. and M Awais. (2021). Resource use efficiency in cotton production in Palwal district of Haryana. *Indian Journal of Agricultural Sciences*, 91(9): 1285-1289
8. **Balaji, S.J.**, Shiv Kumar, Nikam, V.R., Immanuelraj, K., Jumrani, J., Joshi, V. and Kumar, A. (2020). Impact of direct seeded rice technology adoption on farm income in Punjab, *Indian Journal of Agricultural Sciences*, 90(3): 625-628.
9. Malaifarasan, U., Paramasivam, R., Felix, K.T. and **Balaji, S.J.** (2020). Simultaneous equation model for Indian sugar sector. *Journal of Social and Economic Development*, 22(1): 113-141.
10. Subash, S.P., **Balaji, S.J.** and Suresh Pal (2020). Agricultural input markets in India – Recent policy reforms and way forward: A review. *Indian Journal of Agricultural Sciences* 90(6): 1047–53.
11. Nikam, V.R., Kumar, S., Immanuelraj, T.K., **Balaji, S.J.**, Jhahhria, A., Chahal, R. and Kumar, D. (2020). Economic potential of AVIKASIL-S technology for estrus synchronization in sheep. *Indian Journal of Animal Sciences*, 90(3), 139-141.
12. Malaifarasan, U., Paramasivam, R., **Balaji, S.J.** and Felix, K.T. (2019). Sugar price determination in India: an econometric analysis. *Agricultural Economics Research Review*, 32(conference issue), 165-174.

13. **Balaji, S.J.** and Srivastava, S.K. (2019). Inter and intra-sectoral wage determinants in Indian casual-labor market: agricultural and structural change implications. *Statistics and Applications*, 17(1), 261-274.
14. Srivastava, S.K., Singh, N.P., Singh, J., Rao, K.V. and **Balaji, S.J.** (2019). Agriculture development-based mapping of agro-ecological sub-regions and its implications for doubling farmers' income in India. *Current Science*, 117(2), 282-287.
15. Singh, J., Srivastava, S.K., **Balaji, S.J.** and Singh, N. (2019). Agricultural growth trajectory in Madhya Pradesh: is it sustainable? *International Journal of Social Science and Management Studies*, 5(1), 27-35.
16. Kumar, S., Jain, R., Kumar, N.R., **Balaji, S.J.**, Jhahhria, A. Bangaraju, S.V. and Awais, M. (2019). Measuring efficiency of cotton production in Haryana: application of data envelopment analysis. *Journal of Cotton Research and Development*, 33(2), 314-323.
17. **Balaji, S.J.** (2018). Nonfarm employment in rural Tamil Nadu: trends, patterns and driving forces. *The Indian Economic Journal*, Special issue, 321-328.
18. **Balaji, S.J.** (2018). Structural breaks, yield plateaus and long run yield trends in Indian crop sector. *Indian Journal of Economics and Development*, 14(1), 35-44.
19. **Balaji, S.J.** (2018). Exploring the dominance of pull and push forces and role of geography towards non-farm employment in rural Tamil Nadu, India. *Indian Journal of Extension Education*, 54(4), 117-124.
20. Jagdambe, S., Shiji, C.P., Subash, S.P. and **Balaji, S.J.** (2018). Effect of non-farm employment on farm commercialization in rural agricultural India. *Indian Journal of Economics and Development*, 14(1a), 302-307.
21. Kumar, S., Jain, R., Jhahhria, A., Bangaraju, S.V. and **Balaji, S.J.** (2018). Has demonetization triggered farmers to move towards cashless transactions? *Indian Journal of Agricultural Research*, 52(3), 305-309.
22. **Balaji, S.J.**, Jhahhria, A., Kumar, S., Immanuelraj, T.K. and Kar, A. (2017). Agriculture-nutrition linkages: a preliminary investigation for Rural India, *Outlook on Agriculture*, 46(4), 302-308.
23. **Balaji, S.J.** and Suresh Pal. (2017). Does 'space' have a say on agricultural households' income choices, *Indian Journal of Agricultural Economics*, 72(3), 312-325.
24. **Balaji, S.J.**, Kishore, P., Saxena, R., Singh, N.P. and Franko, D. (2017). Technology-policy trade-off in doubling farmers' income: a case study on pulses. *Agricultural Economics Research Review*, 30(conference issue), 117-126.

25. **Balaji, S.J.**, Arivelarasan, T. Surendran, A. and Anbukkani, P. (2017). Pattern, expenditure and inequality in food and non-food consumption among rural households: a micro level study in Tamil Nadu, *Indian Journal of Economics and Development*, 13(1), 105-110.
26. Sendhil, R., Ramasundaram, P. and **Balaji, S.J.** (2017). Transforming Indian agriculture: is doubling farmers' income by 2022 in the realm of reality? *Current Science*, 113(5), 848-850.
27. Saxena, R., Singh, N.P., **Balaji, S.J.**, Ahuja, U.R., Kumar, R. and Joshi, D. (2017). Doubling farmers' income in India by 2022-23: sources of growth and approaches. *Agricultural Economics Research Review*, 30(2), 265-277.
28. Saxena, R., Singh, N.P., Chaudhary, B.B., **Balaji, S.J.**, Raul, R.K., Ahuja, U.R., Joshi, D., Kumar, R. and Khan, M.A. (2017). Can livestock sector be the game changer in enhancing the farmers' income? Revisiting thrust with special focus on dairy sector. *Agricultural Economics Research Review*, 30(conference issue), 59-76.
29. Nandhini, U., Arumugam, S. and **Balaji, S.J.** (2017). Variations in agricultural production in southern parts of India: a comparative study. *International Journal of Commerce, Business and Management*, 6(1), 109-123.
30. Anbukkani, P., **Balaji, S.J.** and Nithyashree, M.L. (2017). Production and consumption of minor millets in India: a structural break analysis, *Annals of Agricultural Research*, 38(4), 1-8.
31. **Balaji, S.J.** and Kumar, S. (2016). Constrains in cotton cultivation: cost issues and options for income increments. *Indian Journal of Agricultural Economics*, 71(3), 361-373.
32. Srivastava, S.K., **Balaji, S.J.** and Kolady, D. (2016). Is there a convergence in dietary energy intake among expenditure-classes in India? *Agricultural Economics Research Review*, 29 (conference issue), 119-128.
33. Surendran, A., **Balaji, S.J.**, Periasami, N., Kumar, S.S. and Durga, A.R. (2016). Farmers' adaption strategies in the climate vulnerable agro-climatic zones of Tamil Nadu, India. *Indian Journal of Ecology*, 43(2), 477-481.
34. Jhahhria, A., Kumar, S., **Balaji, S.J.** and Singh, H.P. (2016). Price transmission in major onion markets of Uttar Pradesh. *Indian Journal of Agricultural Marketing*, 30(3), 143-156.
35. Karthick, V., Thilagavathi, M., Surendran, A., Paramasivam, R. and **Balaji, S.J.** (2015). Estimation of resource use efficiency and technical efficiency of small-onion farmers in Tamil Nadu: a Cobb-Douglas and stochastic frontier approach. *Economic Affairs*, 60(3), 401-407.

36. **Balaji, S.J.** and Suresh Pal. (2014). Agricultural productivity growth: is there regional convergence? *Economic and Political Weekly*, 49(52), 74-80.
37. **Balaji, S.J.** and Chandran, K. (2013). Crop production in rainfed agrarian environment: a study on resource use, costs and returns and constraints in chilli production in Ramanathapuram district of Tamil Nadu. *Economic Affairs*, 58(4), 349-355.

DISCUSSION PAPERS

1. **Balaji, S.J.** and Suresh C Babu. (2020). *Agricultural productivity, inter-sectoral labor shift, and economic growth in India*. IFPRI Discussion Paper 01943, International Food Policy Research Institute, Washington DC, June.
2. **Balaji, S.J.**, Suresh C Babu and Suresh Pal. (2020). *Research-policy linkages: Empirical evidence from agro-economic research in India*. IFPRI Discussion Paper 01970, International Food Policy Research Institute, Washington DC, November.

POLICY PAPERS/REPORTS

1. **Balaji, S.J.**, BIRTHAL, P.S., Pal, B.D., Thurlow, J., Gotor, E., Sharma, P., Srivastava, S.K., Kingsly, I.T., and Naresha, N. (2025). The Future of Food in India: A 2050 Perspective. Policy Paper 51, ICAR – National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi.
2. Saxena, R., BIRTHAL, P.S., Agrawal, R.C., Sharma, P., Paul, R.K., **Balaji, S.J.**, Pant, D.K. and Joshi, N. (2024). *From local to global: Opportunities to accelerate agricultural exports from India*. Policy Paper 47, ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, December.
3. Saxena, R., Srivastava, S.K., **Balaji, S.J.**, Jhahhria, A. and Khan, M.A. (2023). Changes in Indian agriculture: recent household-level evidences. Policy paper 39. ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, India. March.
4. Pal, S., Srivastava, S.K. and **Balaji, S. J.** (2021). Agriculture and Food Policy for the Five Trillion-dollar Economy. Policy Paper no. 98, National Academy of Agricultural Sciences, New Delhi, June.
5. **Balaji, S.J.** and M. Gopinath. 2021. Spatial income disparities and agricultural development in India. Conference paper. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).
6. **Balaji, S.J.** and Suresh Pal. 2021. Agricultural productivity, pay-gap, and non-farm development: contribution to structural transformation in India. Conference paper. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).

7. **Balaji, S.J.**, Suresh C Babu, and Suresh Pal. 2021. Understanding science and policy making in agriculture: a machine learning application for India. Conference paper. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).
8. ICAR-NIAP. (2021). Agricultural Development Report 2020-21. ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi. Editors: Saxena, R., Chand, P., **Balaji, S.J.** and Pal, S.
9. Jhajhria, A., Kandpal, A., **Balaji, S.J.**, Jumrani, J., Immanuelraj, T.K., Kumar, K., Singh, N.P., BIRTHAL, P.S., Sharma, P., Saxena, R., Srivastava, S., Subash, S.P., Pal, S. and Nikam, V. (2020). *COVID-19 lockdown and Indian agriculture: options to reduce the impact*, Working Papers, April (version 1) & October (version 2), National Institute of Agricultural Economics and Policy Research, New Delhi, India.
10. **DFI Committee. (2017).** *March of Agriculture since Independence and Growth Trends*. Volume-I, Department of Agriculture, Cooperation and Farmers' Welfare, Ministry of Agriculture and Farmers Welfare, New Delhi, India.
11. Sendhil, R., **Balaji, S.J.**, Ramasundaram, P., Kumar, A., Singh, S. and Singh, G.P. (2018) *Doubling Farmers Income by 2022: Trends, Challenges, Pathway and Strategies*. Research Bulletin 50, ICAR-Indian Institute of Wheat and Barley Research, Karnal, 1-50.
12. Singh, N.P., Ashok, A., Pavithra, S., **Balaji, S.J.**, Anand, B. and Khan, M.A. (2017). *Mainstreaming climate change adaptation into development planning*. Policy paper 32, National Institute of Agricultural Economics and Policy Research, New Delhi, India.
13. Saxena, R., Singh, N.P., **Balaji, S.J.**, Ahuja, U.R. and Joshi, D. (2017). *Strategy for doubling farmers' income in India*, Policy paper 31, National Institute of Agricultural Economics and Policy Research, New Delhi, India.

POLICY BRIEFS / RESEARCH BRIEFS

1. **Balaji, S.J.**, Nithyashree, M.L. and BIRTHAL, P.S. (2025). Farm-nonfarm linkages in India: Multiplier effects and policy implications. Policy brief 68, National Institute of Agricultural Economics and Policy Research, New Delhi, India. November.
2. **Balaji, S.J.** and Babu, S.C. 2022. The Ukraine war and its food security implications for India. Policy Note 23, International Food Policy Research Institute (IFPRI) (South Asia Office, New Delhi) and Regional Strategic Analysis and Knowledge Support System Asia (ReSAKSS Asia). September.

3. Saxena, R., Paul, R.K., **Balaji, S.J.** and Kumar, R. (2022). *India's agricultural exports during the Covid-19 pandemic*. Policy brief 50, National Institute of Agricultural Economics and Policy Research, New Delhi, India. September.
4. **Balaji S.J.**, Purushottam Sharma, Venkatesh P. and Shreya K. (2022). *Technology and policy options for reducing India's import dependence on edible oils*. Policy brief 49, National Institute of Agricultural Economics and Policy Research, New Delhi, India. September.
5. Suresh Pal, Saxena, R. and **Balaji, S.J.** (2020). *Towards market and innovation-led agricultural transformation*. Policy brief 45, National Institute of Agricultural Economics and Policy Research, New Delhi, India, January.
6. Malaizarasan, U., Felix, K.T., Paramasivam, R. and **Balaji, S.J.** (2020). *How can we meet the growing demand for sugar?* MIDS Research brief 1, Madras Institute of Development Studies, Chennai, India, January.
7. Subash, S.P., Chand, P., Pavithra, S., **Balaji, S.J.** and Suresh Pal. (2018). *Pesticide use in Indian agriculture*. Policy brief 43, National Institute of Agricultural Economics and Policy Research, New Delhi, India, December.
8. Suresh Pal, Jha, G.K., **Balaji, S.J.** and Kandpal, A. (2015). *Accelerating transformation of Indian agriculture*. Division of Agricultural Economics, Indian Agricultural Research Institute, New Delhi, India.

BOOK CHAPTERS / CHAPTERS IN REPORTS

1. **Balaji, S.J.**, P.S. BIRTHAL, and B. Deb Pal. 2025. "What Do We Know About the Future of Food Systems in India?" In K. Wiebe and E. Gotor (Eds.) *What Do We Know About the Future of Food Systems?* Chapter 25. International Food Policy Research Institute, Washington, DC. <https://hdl.handle.net/10568/175019>.
2. **Balaji, S.J.** and Saxena, R. (2025). Regional Dynamics of Agricultural Growth. In P.S. BIRTHAL, N.P. Singh, & P. Sharma (Eds.), *Agricultural Development Report 2024* (pp. 1-14), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi.
3. **Balaji, S.J.** and Suresh C. Babu. (2024). Approaches to population estimations and their use in food policy analysis in urban settings. In: *Handbook on Public Policy and Food Security* (Eds., Sheryl L. Hendriks and Suresh C. Babu). Edward Elgar Publishing, United Kingdom. 276-283.
4. **Balaji, S.J.** (2023). *Russia-Ukraine war, and implications for Indian agriculture*. In: *Agricultural Development Report 2022-23* (Eds. BIRTHAL, P.S., Saxena, R., Sharma, P. and Kiran Kumara, T.M.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi. pp. 15-20, March.

5. **Balaji, S.J.** and Sharma, P. (2023). *Technology-policy trade-offs for self-sufficiency in edible oils*. In: Agricultural Development Report 2022-23 (Eds. BIRTHAL, P.S., Saxena, R., Sharma, P. and Kiran Kumara, T.M.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi. pp. 29-34, March.
6. Saxena, R. and **Balaji, S.J.** (2023). *Growth Prospects for Indian Agriculture*. In: Agricultural Development Report 2022-23 (Eds. BIRTHAL, P.S., Saxena, R., Sharma, P. and Kiran Kumara, T.M.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi. pp. 1-8, March.
7. Pal, S., **Balaji, S.J.**, Srinivas, K., Kumar, R., Srivastava, S.K. and Subash, S.P. (2022). *Investment, Policy and Entrepreneurial Ecosystem for Agricultural Development*. In: Indian Agriculture after Independence (Eds. H Pathak, J.P. Mishra and T. Mohapatra), Indian Council of Agricultural Research, New Delhi. pp. 380-406, July.
8. Kandpal, A., Kiran Kumara, T.M., Sendhil, R. and **Balaji, S.J.** (2022). *Technical efficiency in Indian wheat production: regional trends and way forward*. In: New Horizons in Wheat and Barley Research: Crop Protection and Resource Management (Eds. P.L. Kashyap, V. Gupta, O.P. Gupta, R. Sendhil, K. Gopalareddy, P. Jasrotia, and G.P. Singh) 475-490. Springer Nature Singapore.
9. **Balaji, S.J.** and Kiran Kumara, T.M. (2021). *Growth of Indian agriculture*. In: Agricultural Development Report 2020-21 (Eds. Saxena, R., Chand, P., **Balaji, S.J.** and Pal, S.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi.
10. Kandpal, A., **Balaji, S.J.**, Meena, D.C. Kumar, S., Kumar D. and Chauhan, S. (2021). *Agricultural development indicators*. In: Agricultural Development Report 2020-21 (Eds. Saxena, R., Chand, P., **Balaji, S.J.** and Pal, S.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi.
11. **Balaji, S.J.** (2019). *Computable general equilibrium models*. In: Quantitative Methods for Social Sciences (Eds. Nikam, V., Jhajhria, A. and Pal, S.), ICAR-National Institute of Agricultural Economics and Policy Research, 245-253.
12. Chand, S., Singh, S., Kishore, P., **Balaji, S.J.** and Srivastava, R.C. (2018) *Assessment of mangroves ecosystem services: A case study of Andaman and Nicobar Islands*. In: Agriculture and Ecosystem Services. (Eds. Pal, S.), ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, 165-178.
13. Pal, S., Jha, G. K., **Balaji, S.J.** and Kandpal, A. (2016) *Accelerating Transformation of Indian Agriculture- Technological and Institutional Imperatives*. In: Vicissitudes of Agriculture in the Fast Growing Indian Economy, Eds: C. Ramasamy and K.R. Ashok. Academic Foundation.

ARTICLES IN NEWSPAPERS/ MAGAZINES/E-MAGAZINES

1. **Balaji, S.J.** and Babu, S. (2026). High-Value Plantation Crops: Towards a Sustainable Future. *The Global Analyst*, 29-32, April.
2. **Balaji, S.J.** (2025). From Orchards to Overseas: Consumption Dynamics, Trade Structure and Growth Prospects for Indian Citrus. *Indian Citriculture*, 3(1), pp 1-6.
3. **Balaji, S.J.** and Babu, S. (2025). The Looming Global Rice Shortage. *The Global Analyst*, 15-18, May.
4. **Balaji, S.J.** and Babu, S. (2025). Natural farming: The holy grail of Indian agriculture? *The Global Analyst*, 52-55, January.
5. BIRTHAL, P.S. and **Balaji, S.J.** and (2024, July 23). A holistic package for agriculture. *The Hindu Business Line*. <https://www.thehindubusinessline.com/opinion/a-holistic-package-for-agriculture/article68437287.ece>
6. **Balaji, S.J.** and Suresh C Babu. (2022). Russia-Ukraine War: India's Fertilizer Supply Woes. *The Global Analyst*, 12(5), May.
7. Suresh C Babu and **Balaji S.J.** (2022) Food System Reforms: Behind the Political Economy. *The Global Analyst*, 11(1), January.
8. **Balaji, S.J.**, Arun G and Suresh C Babu. (2021) National Edible Oil Mission-Oil Palm: Towards Self-Sufficiency. *The Global Analyst*, 10(9), September.
9. **Balaji, S.J.**, Suresh C Babu and Inbasekar, K. (2021). Smart agriculture: Myth or reality? *The Global Analyst*, 10(1): 46-48, January.
10. **Balaji, S.J.** and Suresh C Babu (2020). Agriculture: Can it revive the economy? *The Global Analyst*, 9(9): 19-21, September.
11. **Balaji, S.J.** and Umanath, M. (2019). Rise of the machines: Why India need not be afraid? *Down to Earth*, April 17.
12. **Balaji, S.J.** and Umanath, M. (2019). From 'no-jobs' to 'new-jobs'. *The Hindu Tamil*, April 1.
13. Umanath, M. and **Balaji, S.J.** (2019). Thousand questions behind the six-thousand rupee. *The Hindu Tamil*, March 11.
14. **Balaji, S.J.** (2016). Do we have more land for agriculture? *The Dialogue*, Online policy discourse dated 25-10-2016.

15. **Balaji, S.J.** (2016). Where do we stand for ‘farmers income’? *The Dialogue*, Online policy discourse dated 11-07-2016.

CONFERENCE PRESENTATIONS – INTERNATIONAL

1. Sendhil, R. and **Balaji, S.J.** (2024). Impact of climate heterogeneity on agricultural gross domestic product – food security implications for India. Pre-Conference Workshop on Regional Integration, Sustainability and Food Security in South Asia, 32nd International Conference of Agricultural Economists, New Delhi, August 02-07, 2024, (In-person).
2. **Balaji, S.J.** and Gopinath Munisamy. (2023). Spatial growth and convergence in Indian agriculture. 2023 AAEA Annual Meeting, Washington DC, USA, July 21-26 (poster presentation, in person, July 25).
3. **Balaji, S.J.** and Suresh Pal. (2021). Transforming rural economy: farm-nonfarm linkages and poverty implications in rural India. The 10th ASAE International Conference, Beijing, China, December 7, 2021, December 6-8 (online).
4. **Balaji, S.J.** and Gopinath, M. (2021). *Spatial income disparities and agricultural development in India*. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).
5. **Balaji, S.J.** and Suresh Pal. (2021). *Agricultural productivity, pay-gap, and non-farm development: contribution to structural transformation in India*. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).
6. **Balaji, S.J.**, Suresh C Babu and Suresh Pal. (2021). *Understanding science and policy making in agriculture: a machine learning application for India*. 31st Triennial International Conference of Agricultural Economists (ICAE), August 17-31 (Online).
7. **Balaji SJ**, Pal, B.D., Suresh C Babu, Pradesha, A., Nithyashree, M.L. and Suresh Pal. (2021). *Welfare Implications of Expanding Conditional Cash Transfer Policy in Agriculture: Preliminary Evidences under Fiscal-Neutral and Deficit Policy Choices for India*. August 2, 2021. Agricultural & Applied Economics Association (AAEA) & Western Agricultural Economics Association (WAEA) Joint Annual Meeting, August 1-3, Austin, Texas.

CONFERENCE PRESENTATIONS – NATIONAL

1. **Balaji, S.J.** and Gopinath, M. (2023). *A Machine Learning Approach to Insurance Choice and Crop Revenue Risk Reduction*. July 21. National Seminar on Indian Agriculture @ 75 – Achievements, Challenges, and Way Forward Department of Economics, Pondicherry University, July 20-21.

2. **Balaji, S.J.**, Umanath, M. and Arun, G. (2021). *Welfare gains of inward-looking: An ex-ante assessment of general equilibrium impacts of protectionist tariffs in India's edible oil imports*. 29th Annual Conference of the Agricultural Economics Research Association (AERA). Odisha University of Agriculture & Technology (OUAT), Bhubaneswar, October 27-29, 2021.
3. Beero, S.K., **Balaji, S.J.**, Sharma, P., Chand, P., Kiruthika, N. and Umanath, M. (2021). *Product-clusters, export promotion and agricultural growth: a partial assessment of India's relative competitiveness in light of the Agricultural Export Policy 2018*. 34th National Conference of the Indian Society of Agricultural Marketing (ISAM), Lucknow, March 16-18.
4. **Balaji, S.J.** (2020). Presentation on Young Agricultural Economist Award 2020, 28th Annual Conference of Agricultural Economics Research Association (India) on Future of Indian Agriculture, University of Agricultural Sciences, Bangalore, December 16-18.
5. **Balaji, S.J.** (2019). *Structural transformation in India: Impact on farm output and implications on farmers' welfare*. 27th Annual Conference of Agricultural Economics Research Association (India) on Changing Landscape of Rural India, Punjab Agricultural University (PAU), Ludhiana, December 17-19.
6. **Balaji, S.J.** (2019). *Sugar price determination in India: An econometric analysis*. 27th Annual Conference of Agricultural Economics Research Association (India) on Changing Landscape of Rural India, Punjab Agricultural University (PAU), Ludhiana, December 17-19.
7. **Balaji, S.J.** (2018). *Nonfarm employment in rural Tamil Nadu: trends, patterns and driving forces*. Centenary second conference of the Indian Economic Association. Vellore Institute of Technology, Tamil Nadu, December 27-29.
8. **Balaji S.J.** (2017). *Technology-policy trade-off in doubling farmers' income: A case study on pulses*. 25th Annual Conference of Agricultural Economics Research Association (India), ICAR-NAARM, Hyderabad, November 7-9.
9. Subash, S.P., Aditya, K.S., **Balaji, S.J.** and Chand, P. (2017). *Primary income sources of agricultural household in rural India: Deciphering meso-micro paradoxes using hierarchical analysis*. 25th Annual Conference of Agricultural Economics Research Association (India), ICAR-NAARM, Hyderabad, November 7-9.
10. **Balaji, S.J.**, Jhahhria, A., Kumar, S., Immanuelraj, T.K. and Kar, A. (2016). *Agriculture-nutrition linkages: Preliminary investigation for rural India*. Agricultural Economics Research Review, 29(Conference Issue):195.
11. **Balaji S. J.** (2015). *Structural Breaks, Yield Plateaus and Long-run Yield Trends in Indian Agriculture*. The 75th Annual Conference or Platinum Jubilee Celebration of

the Indian Society of Agricultural Economics, Punjab Agricultural University (PAU), Ludhiana, November 19-21.

CONFERENCE ABSTRACTS

1. Nayak, B.S., Naresha, N. and **Balaji, S.J.** (2024). *Should India import corn for ethanol production? Technology alternatives for import substitution*. 32nd Annual Conference of Agricultural Economics Research Association (India) on Digitalization of Agriculture for Higher, Sustainable, and Inclusive Growth. IGKV, Raipur, Chhattisgarh. December 11-13, 2024.
2. Naresha, N., Nayak, B.S. and **Balaji, S.J.** (2024). *Assessing sugarcane expansion to ethanol production under climate change scenarios in India*. 32nd Annual Conference of Agricultural Economics Research Association (India) on Digitalization of Agriculture for Higher, Sustainable, and Inclusive Growth. IGKV, Raipur, Chhattisgarh. December 11-13, 2024.
3. Kumar, S., Kingsly, I.T., Nikam, V.R., **Balaji, S.J.**, Vister, J., Ahmad, S.S. and Kumar, A. (2018) *An Econometric Analysis of Structural Factors of Pulse Production in India: The Case of Chickpea in Maharashtra*. *Agricultural Economics Research Review*, 29, 200.
4. **Balaji, S.J.**, Jhahhria, A., Kumar, S., Immanuelraj, T.K. and Kar, A. (2016). *Agriculture-nutrition linkages: Preliminary investigation for rural India*. *Agricultural Economics Research Review*, 29(Conference Issue):195.
5. Kumar, S., Kingsly, I.T., Nikam, V.R., **Balaji, S.J.**, Joshi, V., Shah, S. A. and Kumar, A. (2016) *An econometric analysis of structural factors of pulse production in India: A case of gram in Maharashtra*. AERA annual conference, ICAR-Indian Veterinary Research Institute, Izatnagar, December 15-17.

LECTURES DELIVERED (SELECTED)

1. *From maps to models: spatial econometrics for evidence-based policy design*. Virtual workshop organized by the Madras Institute of Development Studies, August 9, 2025.
2. *Food systems transformation in India: challenges and opportunities*. Probationary Training Programme for Officer-Trainees of Indian Economic Service (2025 Batch). April 7-12, 2025, ICAR-NIAP, New Delhi. April 11.
3. *India: Agrifood systems transformation – challenges and opportunities*. one-week training program for the Officer-Trainees of Indian Economic Service (IES). May 6-10, 2024, ICAR-NIAP, New Delhi. May 7.

4. *Understanding Agricultural Transformation in India: Perspectives for the Future*. 11th February 2022. Virtual Winter School on Analytical Techniques for Decision Making in Agriculture. February 5-25, 2022. ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi.
5. *Agents, Interactions and Agricultural Performance: The Place for Input-Output Models in Quantitative Policy Analysis*. 21st February 2022. Virtual Winter School on Analytical Techniques for Decision Making in Agriculture. February 5-25, 2022. ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi.
6. *Machine Learning Models: Application in Forecasting*. Online Training Programme in Collaboration with MANAGE-Hyderabad on Reforms in Agricultural Marketing. July 28-31, 2021. Rani Lakshmi Bai Central Agricultural University, Jhansi.
7. *Machine Learning in Agricultural Policy Decisions*. Virtual Symposium on “Digital Technology: Game Changer in Agriculture”. 26th June, 2021. VIT School of Agricultural Innovations and Advanced Learning (VAIAL), Vellore.
8. *Agricultural Growth: Performance and perspective*. Training program for the Officer-Trainees of Indian Economic Service (IES), April 14, 2021, ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi.
9. *Time Series Methods*. 13th February 2021. Online Workshop on Application of Research Methods and Statistical Tools in Management Studies and Social Sciences, February 8-13, 2021, School of Management Studies, Sathyabama Institute of Science and Technology, Chennai.
10. *Panel data and instrumental variables (IV) regressions in social science research*. ICAR Sponsored Summer School on Quantitative Methods for Social Sciences, ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi. September 21, 2019.
11. *STATA: An introduction*. ICAR Sponsored Summer School on ‘Quantitative Methods for Social Sciences’, ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi. September 21, 2019.
12. *Structural transformation and policy reforms in agriculture*. Training Program for African Nationals on ‘Agriculture Policy Analysis and Communication’, ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi. December 31, 2018.
13. *Tracing structural breaks in time-series data*. Center for Advanced Faculty Training, ICAR-Indian Agricultural Research Institute (IARI), New Delhi. July 28, 2018 & Feb 2017.

14. *Yield Improvement in Cotton Cultivation: Impact of Irrigation*. Center for Advanced Faculty Training, ICAR-Indian Agricultural Research Institute (IARI), New Delhi, October, 2017.

WORKSHOP/SEMINAR/EVENT PARTICIPATION (SELECTED)

1. *Spring 2023 Chicago Fulbright Scholar Enrichment Seminar*, April 12-15, 2023, Chicago, Illinois (in person).
2. *Unleashing Africa's Trade in Services Through Progressive Liberalization*, June 1, 2023, World Bank, Washington DC (in person).
3. *Humanities & Social Sciences Manuscript Publishing & Peer Review Fall 2022 Workshop*, December 16, 2022 (online).
4. *WTO and Indian Agriculture: Issues, Concerns and Possible Solutions*. October 7, 2021. National Academy of Agricultural Sciences (NAAS), New Delhi (online).
5. *A Brief History of Equality: Lessons from "Capital and Ideology" and the World Inequality Database*. February 10, 2021. World Bank Group. Washington DC (online).
6. *Indian Agriculture Towards 2030: Pathways for Enhancing Farmers' Income, Nutritional Security and Sustainable Food Systems*. January, 19-22. NITI Aayog, Ministry of Agricultural and Farmers Welfare (MoAFW) & Food and Agriculture Organization (FAO), India (online).
7. *Discussion on the Key Findings of FAO's 2019 State of Food Security and Nutrition in the World Report*. International Food Policy Research Institute (IFPRI), Washington DC. July 17, 2019 (in person).
8. *Addressing Water Variability and Scarcity: The Role of Agricultural Research*. International Food Policy Research Institute (IFPRI), Washington DC. July 17, 2019 (in person).
9. *The Forced Exile of Rohingyas into Bangladesh: Economic and Nutritional Outcomes and Future Policy Options*. International Food Policy Research Institute (IFPRI), Washington DC. July 10, 2019 (in person).
10. *Workshop on productivity growth with industry 4.0 standardisation*. Federation of Indian Chambers of Commerce Industry (FICCI), New Delhi, March 13, 2019 (in person).
11. *Panel discussion on poverty, chronic poverty and poverty dynamics: Policy imperatives*. India International Centre, New Delhi, January 23, 2019 (in person).

12. *National workshop on sustainability of Indian agriculture: Socio-economic perspective.* NASC Complex, New Delhi, November 27, 2018 (in person).
13. *National workshop on sustainability of Indian agriculture: Agro-biodiversity and environment.* NASC Complex, New Delhi, November 26, 2018 (in person).
14. *Seminar on markets and states in India and China.* ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi, November 14, 2018 (in person).
15. *Seminar on computable general equilibrium (CGE) modelling, a tool for economic policy: achievements and new challenges.* National Council of Applied Economic Research, New Delhi, October 10, 2018 (in person).
16. *National Seminar on agriculture and ecosystem services.* ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi, May 28-29, 2018 (in person).
17. *Panel discussion on Global Food Policy Report, 2018.* ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi, May 03, 2018 (in person).

TRAINING CO-ORDINATED

1. One-week Training Program for the Officer-Trainees of Indian Economic Service (IES). (Along with Dr. Raka Saxena, Dr. Purushottam Sharma & Dr. Prabhat Kishore). ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi, May 6-10, 2024.
2. Induction-level Training of IES Offices on Core Issues related to Agricultural Sector. (Along with Dr. Rajni Jain & Dr. Suresh Pal). ICAR-National Institute of Agricultural Economics and Policy Research (NIAP), New Delhi. Dec-31 2019 to Jan-4, 2020.

JOURNAL REVIEWER

1. China Agricultural Economic Review
2. Applied Economic Perspectives and Policy
3. Plos one
4. Food security
5. Irrigation and Drainage
6. Agricultural Economics Research Review
7. Indian Journal of Agricultural Sciences
