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Explaining the Extension Commercialization Components of Nanotechnology in Iranian Agricultural Sector

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The main objective of this descriptive- correlative study was to explain of extension and development commercialization components of nanotechnology in Iranian agricultural sector. The statistical population of the study contained 125 agricultural extension experts of Jihad-e- Agriculture Minister. According to the Krejcie and Morgan table, a sample size of 125 was selected using a random sampling method. The questionnaire was used to collect the data. The content validity of the questionnaire was confirmed by a panel of experts. The construct validity and the composite reliability of the research instrument were tested by estimating the measurement model and they were satisfied after making necessary corrections. The data were analyzed using Structural Equation Modeling (SEM) multivariate technique by the software of AMOS20. The results indicated that the importance of all four factors mentioned in the research conceptual model has verified based on the field data (good fitness of the model) and the factors including: extension (awareness, education, facilitating and need assessment), economic, farmers' profiles and technology characteristics had a significant relationship with construct of extension and development commercialization components of nanotechnology in agricultural sector.

Key Words: Commercialization, Agricultural extension, Nanotechnology.