SCIENTIST PROFILE

1. Name & Designation : Dr. Totan Adak, Scientist
2. Date of Birth : 9th March, 1984
3. Date of joining ICAR : 3rd May, 2010
4. Date of joining to the present post : 4th April, 2012
5. Qualification (highest degree) : Ph.D (Agricultural Chemicals)
6. Post Doctoral Research Experience/Training: Nil
7. Area of Specialization/research interest: Analytical chemistry, Formulation chemistry
8. Significant Contribution including products and patents (Five bullets):
    - Pesticide safety evaluation.
    - Nano-polymeric controlled release formulation for effective, economic and eco-friendly formulation.
    - Seed quality enhancement.
9. Awards/Honours: Nil
10. Publications (10 best):
    i. Sarkar DJ, Kumar J, Shakil NA, **Adak T** and Watterson AC (2012). Synthesis and characterization of amphiphilic PEG based aliphatic and aromatic polymers and their self assembling behaviour. **Journal of Macromolecular Science-Pure and Applied Chemistry** 49: 455-465.
    ii. **Adak T,** Kumar J, Dey D, Shakil NA and Walia S (2012). Residue and bio-efficacy evaluation of controlled release formulations of imidacloprid against pests in soybean (Glycine max). **Journal of Environmental Science & Health, Part B** 47:226-231.
    iii. **Adak T**, Kumar J, Shakil NA and Walia S (2012)**.** Development of controlled release formulations of imidacloprid employing novel nano-ranged amphiphilic polymers. **Journal of Environmental Science & Health, Part B** 47:217-225.
    iv. Shakil NA, Kumar J, Singh MK, Loha KM, **Adak T**, Kaushik P, Roychowdhury A, Sarkar DJ and Pankaj (2012). Development of slow release nano formulations of bioactive molecules and method of preparation thereof. Indian Patent Application 257/ DEL/2012 (Applied).
    v. Kumar J, Shakil NA, **Adak T**, Sarkar DJ and Roychowdhury A (2012). Development of polymeric formulations of bioactive molecules and method of preparation thereof. Indian Patent Application 3746/DEL/2012 (Applied).
    vi. **Adak T,** Kumar J, Shakil NA, Walia S. Kumar A and Watterson AC (2011). Synthesis and characterization of novel surfactant molecules based on amphiphilic polymers. **Journal of Macromolecular Science-Pure and Applied Chemistry** 47: 241-247.
    vii. Loha KM, Shakil NA, Kumar J, Singh MK, **Adak T** and Jain S (2011). Release kinetics of β-Cyfluthrin from its encapsulated formulations in water. **Journal of Environmental Science & Health, Part B** 46: 201-206.