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2013 Cozzarelli Prize Recipients

**Class I: Physical and Mathematical Sciences**

**Prevalence of Earth-size planets orbiting Sun-like stars**

Erik A. Petigura, Andrew W. Howard, and Geoffrey W. Marcy
(2013) PNAS 110:19273–19278

**Class II: Biological Sciences**

**Task-related “cortical” bursting depends critically on basal ganglia input and is linked to vocal plasticity**

Satoshi Kojima, Mimi H. Kao, and Allison J. Doupe
(2013) PNAS 110:4756–4761

**Class III: Engineering and Applied Sciences**

**Gas production in the Barnett Shale obeys a simple scaling theory**

Tad W. Patzek, Frank Male, and Michael Marder
(2013) PNAS 110:19731–19736

**Class IV: Biomedical Sciences**

**Human placental trophoblasts confer viral resistance to recipient cells**

Elizabeth Delorme-Axford, Rogier B. Donker, Jean-Francois Mouillet, Tianjiao Chu, Avraham Bayer, Yingshi Ouyang, Tianyi Wang, Donna B. Stolz, Saumendra N. Sarkar, Adrian E. Morelli, Yoel Sadovsky, and Carolyn B. Coyne
(2013) PNAS 110:12048–12053

**Class V: Behavioral and Social Sciences**

**Historical collections reveal patterns of diffusion of sweet potato in Oceania obscured by modern plant movements and recombination**

Caroline Roullier, Laure Benoit, Doyle B. McKey, and Vincent Lebot
(2013) PNAS 110:2205–2210

**Class VI: Applied Biological, Agricultural, and Environmental Sciences**

**Neonicotinoid clothianidin adversely affects insect immunity and promotes replication of a viral pathogen in honey bees**

Gennaro Di Prisco, Valeria Cavaliere, Desiderato Annoscia, Paola Varriicchio, Emilio Caprio, Francesco Nuzzi, Giuseppe Gargiulo, and Francesco Pennacchio
(2013) PNAS 110:18466–18471

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