# NOBEL PRIZE PREDICTIONS, 2002-12

Data provided by Thomson Reuters Research Services Group, 2002-12

| Year | Physiology or medicine | Chemistry | Physics | Economics |
|---|---|---|---|---|
| 2012 | ● C. David Allis, M. Grunstein (histone modifications)<br>● A.R. Hunter, A.J. Pawson (tyrosine phosphorylation, SH2 domain)<br>● R.O. Hynes, E. Ruoslahti, M. Takeichi (integrins, cadherins) | ● L.E. Brus (quantum dots)<br>● A. Fujishima (Honda-Fujishima Effect)<br>M. Haruta, G.J. Hutchings (catalysis by gold) | ● C.H. Bennett, G. Brassard, W. K. Wootters (quantum teleportation)<br>● L.T. Canham (photoluminescence in porous silicon)<br>● S.E. Harris, L.V. Hau ('slow light') | ● A.B. Atkinson, A.S. Deaton (income inequality, well-being)<br>● S.A. Ross (arbitrage pricing theory)<br>● R.J. Shiller (market volatility) |
| 2011 | ● B. J. Druker, N. B. Lydon, C. L. Sawyers (imatinib and dasatinib)<br>● R. S. Langer, J. P. Vacanti (regenerative medicine)<br>● J. F. A. P. Miller, R. L. Coffman, T. R. Mosmann (thymus and TH1 and TH2 function) | ● A. J. Bard (SECM)<br>● J. M. J. Fréchet, D. A. Tomalia, F. Vögtle (dendrimers)<br>● M. Karplus (simulations of molecular dynamics of biomolecules) | ● A. Aspect, J. Clauser, A. Zeilinger (tests of Bell's inequalities)<br>● S. John, E. Yablonovitch (photonic crystals)<br>● H. Ohno (ferromagnetic semiconductors) | ● D. W. Diamond (financial intermediation)<br>● J. A. Hausman, H. L. White, Jr (econometric tests)<br>● A. O. Krueger, G. Tullock (rent seeking) |
| 2010 | ● D. L. Coleman, J. M. Friedman (leptin)<br>● E. A. McCulloch, J. E. Till (stem cells) and S. Yamanaka (iPS cells)<br>● **R. M. Steinman (dendritic cells) (won in 2011)** | ● P. O. Brown (DNA microarrays)<br>● S. Kitagawa, O. M. Yaghi (metal-organic frameworks)<br>● S. J. Lippard (metallointercalators) | ● C. L. Bennett, L. A. Page, D. N. Spergel (WMAP)<br>● T. W. Ebbesen (surface plasmon photonics)<br>● **S. Perlmutter, A. G. Riess, B. P. Schmidt (dark energy) (won in 2011)** | ● A. Alesina (politico-economics)<br>● N. Kiyotaki, J. H. Moore (credit cycles)<br>● K. M. Murphy (social economics) |
| 2009 | ● **E. H. Blackburn, C. W. Greider, J. W. Szostak (telomeres) (won in 2009)**<br>● J. E. Rothman, R. Schekman (vesicle transport)<br>● S. Ogawa (fMRI) | ● M. Grätzel (solar cells)<br>● J. K. Barton, B. Giese, G. B. Schuster (charge transfer in DNA)<br>● B. List (organic asymmetric catalysis) | ● Y. Aharonov, M. V. Berry (Aharonov-Bohm effect and Berry phase)<br>● J. I. Cirac, P. Zoller (quantum optics)<br>● J. B. Pendry, S. Schultz, D. R. Smith (negative refraction) | ● E. Fehr, M. Rabin (fairness)<br>● W. D. Nordhaus, M. L. Weitzman (environmental economics)<br>● J. B. Taylor, J. Galí, M. L. Gertler (monetary policy) |
| 2008 | ● S. Akira, **B. A. Beutler, J. Hoffmann** (toll-like receptors) **(won in 2011)**<br>● V. R. Ambros, G. Ruvkun (miRNAs)<br>● R. Collins, R. Peto (meta-analysis) | ● **R. Y. Tsien (green fluorescent protein) (won in 2008)**<br>● C. M. Lieber (nanomaterials)<br>● K. Matyjaszewski (ATRP) | ● **A. K. Geim, K. S. Novoselov (graphene) (won in 2010)**<br>● V. C. Rubin (dark matter)<br>● R. Penrose, **D. Shechtman** (Penrose tilings, quasicrystals) **(won chemistry prize in 2011)** | ● L. P. Hansen, **T. J. Sargent, C. A. Sims** (dynamic modelling) **(won in 2011)**<br>● M. S. Feldstein (public economics)<br>● A. A. Alchian, H. Demsetz (property rights) |
| 2007 | ● F. H. Gage (neurogenesis)<br>● R. J. Ellis, F. U. Hartl, A. L. Horwich (chaperones)<br>● J. Massagué (TGF-beta) | ● S. J. Danishefsky (epothilones)<br>● D. Seebach (synthetic organic methods)<br>● B. M. Trost (organometallic and bio-organic chemistry) | ● S. Iijima (nanotubes)<br>● A. B. McDonald (neutrino mass)<br>● M. J. Rees (cosmology) | ● E. Helpman, G. M. Grossman (international trade)<br>● J. Tirole (industrial organisation)<br>● R. B. Wilson, P. R. Milgrom (auctions) |
| 2006 | ● **M. Capecchi, M. J. Evans and O. Smithies (gene targeting) (won in 2007)**<br>● P. Chambon, R. M. Evans, E. V. Jensen (hormone receptors)<br>● A. J. Jeffreys (DNA profiling) | ● G. R. Crabtree, S. L. Schreiber (small molecule chem-biology)<br>● T. J. Marks (organometallic)<br>● D. A. Evans, S. V. Ley (natural products) | ● **A. Fert and P. Grünberg (GMR) (won in 2007)**<br>● A. H. Guth, A. Linde, P. J. Steinhardt (inflation)<br>● E. Desurvire, M. Nakazawa, D. N. Payne (erbium-doped fibre amplifiers) | ● **Paul Krugman (trade) (won in 2008)**<br>● J. N. Bhagwati, A. K. Dixit (international trade)<br>● D. W. Jorgensen (econometrics)<br>● O. D. Hart, B. R. Holmstrom, **O. E. Williamson (corporate governance) (won in 2009)** |
| 2002-05 | ● M. J. Berridge (cell signalling)<br>● A. G. Knudson, B. Vogelstein, R. A. Weinberg (tumour suppressor genes)<br>● F. S. Collins, E. S. Lander, J. C. Venter (gene sequencing) | ● **R. H. Grubbs (metathesis method) (predicted and won in 2005)**<br>● A. Bax (NMR and proteins)<br>● K. C. Nicolaou (total synthesis, taxol)<br>● G. M. Whitesides, S. Shinkai, J. F. Stoddart (nano self-assembly) | ● M. B. Green, J. H. Schwarz, E. Witten (string theory)<br>● Y. Tokura (condensed matter, spintronics)<br>● S. Nakamura (gallium nitride-based LEDs) | ● **R. F. Engle, C. W. J. Granger (time series, ARCH and cointegration) (predicted and won in 2003)**<br>● **D. Kahneman (decision under uncertainty) (predicted and won in 2002)**<br>● R. J. Barro (growth)<br>● E. F. Fama, K. R. French (EMH)<br>● P. M. Romer (growth)<br>● R. H. Thaler (behavioural economics) |

This table presents Thomson Reuters' "citation laureates" for 2012, as well as those from earlier years. The blue text highlights those who have won the Nobel Prize. See http://sciencewatch.com/nobel/