

SPR AWARD, 2008

## For distinguished contributions to psychophysiology: William G. Iacono

GREGORY A. MILLER

Department of Psychology, University of Illinois at Urbana–Champaign, Champaign, Illinois, USA

In 2008 the Senior Awards Committee of the Society for Psychophysiological Research selected William G. Iacono to receive SPR's highest honor, the Award for Distinguished Contributions to Psychophysiology. SPR does not give this award every year, reserving it for the very best scholars in psychophysiology.

The range of Bill's interests and contributions is remarkable. His work spans adult and developmental psychopathology, substance abuse, psychiatric epidemiology, and behavior genetics; schizophrenia, mania, depression, and impulse-control disorders; normal personality, family studies, and legal issues; and a stunning range of measures and research strategies. His early track record and future potential were recognized by the Early Career Award from both the SPR and the American Psychological Association. Bill subsequently served as SPR president. Recently he received the singular honors of the Distinguished Scientist Award from the Society for a Science of Clinical Psychology and an NIH/NIDA MERIT award, reserved for only the very best and most productive health researchers. His scientific leadership is widely recognized internationally.

Bill's productivity is reflected in numerous measures, including not only his ~350 publications (unprecedented in our field to my knowledge) but the nature and venues of those papers. Over three quarters are peer-reviewed data papers (an empirical record also unprecedented in our field to my knowledge). Furthermore, considering the four journals in which he has published most often (100 papers total), all are the very top venues in their areas (*Psychophysiology*, *Journal of Abnormal Psychology*, *American Journal of Psychiatry*, *Archives of General Psychiatry*). His publication record is of the highest quality as well as remarkable in quantity.

Another hallmark of Bill's scholarly record is the breadth of the methods he uses and, often, improves. These include published work on eye tracking, heart rate, electrodermal activity, electroencephalogram (EEG) spectral measures, EEG time-frequency analysis, event-related brain potentials, eye-movement artifact removal from EEG, nailfold plexus visibility, computerized X-ray tomography, and structural and functional magnetic resonance imaging. He is the most diverse scientist I know.

---

*At the Forty-Eighth Annual Meeting of the Society for Psychophysiological Research, the award for Distinguished Contributions to Psychophysiology was presented to William G. Iacono. The following is based on the citation given by Gregory A. Miller on behalf of the Society's Senior Awards Committee on October 4, 2008.*

Of numerous prominent scientific findings of Bill's that have altered the research landscape internationally, I would like to highlight a few. Early in his career, beginning with a brief report in *Lancet*, Bill provided a compelling demonstration that the findings of psychopathology studies varied greatly as a function of the choice of the control group recruited. This is now such a fundamental, widely understood principle, so familiar to investigators in the field, that it is difficult to appreciate that it required someone to discover and make a convincing case for it. Bill was the one to do that.

A second seminal contribution, again affecting the entire field and beyond, is his pioneering work with endophenotypes in psychopathology, an idea that Bill developed in the context of research on schizophrenia. His work in this area convinced him that studying adults with schizophrenia or their healthy relatives, most of whom would never get schizophrenia, would not allow us to understand the etiology of the disorder, because it was not possible to establish causation after the fact in individuals already afflicted with the disorder. To discover the underpinnings of this serious disorder, he recognized the need to take a developmental approach. Along these lines, he published some of the earliest work on endophenotypes, which represent manifestations of processes that can lead to disease but are not themselves symptoms of a disease. Endophenotypes can vary in how closely tied they are to genetic or environmental factors (and their interactions). Importantly, endophenotypes are not merely risk factors, predictive of later pathology, but essentially incomplete expressions of the disease process itself. Thus, an endophenotype can serve as a way station in the developmental course of a disease that is informative about interim stages and causal mechanisms. Discoveries arising from studies of endophenotypes serve at least two essential purposes. First, they can reveal a portion of the causal chain that produces disease. Second, they can reveal entry points into developmental processes that can serve as a basis for interventions aimed at preventing or ameliorating subsequent disease. Thus, Bill's pioneering work in both conceptualizing and concretizing endophenotype phenomena has played a central role in the emergence of new approaches to researching, identifying, and treating diverse forms of mental disorder. This impact extends well beyond the psychopathology literature, but his impact on psychopathology research alone should not be underestimated. This work has revolutionized large segments of the field. As with his early discovery regarding control groups, Bill's work on endophenotypes is now pervasive in the literature.

A third area in which Bill has demonstrated exceptional leadership is eye-tracking deficits in schizophrenia. Early on, he was something of a rebel in a field that was initially very narrow. Over time, he had enormous impact in opening up this area to diverse approaches. Some years ago I was in the audience of a special National Institute of Mental Health (NIMH) conference on eye-tracking methods in schizophrenia. This had long been a very contentious literature. In that meeting Bill essentially took on the rest of the research community single-handedly, articulating what he believed was known and what was needed, as various specialists pushed one or another dissenting point. The main challenge to his position was the claim that “ophthalmologically informed” or “neuro-ophthalmological” measures were needed, not the more straightforward measures on which his work relied. The state of that literature today is largely as he outlined it, in terms of what measures and phenomena are most important. A recent meta-analysis of the literature on eye tracking as an endophenotype for schizophrenia included coverage of over 900 studies. The analysis indeed supported the points Bill made at that meeting years ago, showing that robust replication and substantial effect sizes were evident for many types of measures, not just the few neuro-ophthalmological measures that others in the area had been advocating as the only acceptable approach. The meta-analysis also showed that the neuro-ophthalmological measures have yet to shed any special light on mechanisms of the deficit.

As a final substantive area, representing another key example but by no means the final word on his seminal contributions, I would like to emphasize Bill’s work in recent years on what are called externalizing disorders. He has helped to build Minnesota into the premier site for basic and integrative research on the relationship between genetic and environmental contributions to a broad range of psychopathology that encompasses impulse-control disorders, substance abuse, and related disorders. On the one hand, his data and his conceptualizations have been a major factor in persuading the field that genes make a far larger contribution than was realized. Indeed, as with his earlier work on control groups and eye tracking, Bill helped change the thinking in the field profoundly, again in ways that are now widely taken for granted. On the other hand, his work on the roles of genes and environments has also played an important role in showing that a purely genetic story is clearly inadequate as an account of psychopathology. Thus, even as his work has pushed the field to address genetics, it has also argued against naïve reductionism in understanding the role of biological factors in psychopathology.

Bill and Matt McGue serve as co-directors of the Minnesota Center for Twin and Family Research. This center has a variety of National Institutes of Health (NIH) grants that fund four separate twin studies and an adoption study, all focused on preadolescent and adolescent children, all using longitudinal, prospective designs with epidemiological samples drawn broadly from the entire state of Minnesota. This project has close to 10,000 participants, 7,500 of whom have undergone a 2.5-h psychophysiology assessment, some as many as five times as they have grown up. It has produced over 165 publications and contributed substantially to the career development of many junior scientists Bill has mentored. He has noted that nothing he learned in grad school prepared him for managing such a project. But he is not slowing down. He is principal investigator (PI) or co-PI on eight current NIH grants and is looking forward to harvesting many more discoveries from the Center’s huge and still growing database.

Bill’s contributions reach well beyond the research literature. He has been an extraordinary mentor, with 20 former students active in academia. This is especially impressive in clinical psychology, because the vast majority of Ph.D.s in our field go into clinical practice and conduct no research after completion of their degree. Three people he trained have received the SPR Early Career Award, one has received the early career award from APA, one holds the Distinguished Hathaway Professorship Chair at Minnesota, and one has been elected president of the SPR.

On top of this record of research and mentoring, Bill has served science and society tirelessly. He has played a host of critical roles in SPR, as president, as an associate editor of *Psychophysiology*, as chair of six different committees, and as a wise voice at many moments I have witnessed. He has reviewed for at least 68 different journals, has been member or chair of 27 NIH grant-review committees, and has been asked to serve as an expert witness in dozens of court cases. He is unquestionably the leading scientist internationally on the use and abuse of “lie detection” methods, which have major consequences for civil liberties, public policy, and national security. I know of no one else who combines his substantive scientific record and his service record.

Bill’s professional career trajectory provides no hint of his earliest years. He was born in Germany of German parents, was then a World War II refugee, and was adopted from an orphanage by the Iacono family. He began learning English around age 1, moved to the United States at age 4, became a U.S. citizen at age 5, but lived in France from age 6 to 11. Bill has been back to Europe various times, including as a featured speaker at a meeting of the German Psychophysiology Society and as a guest professor at the University of Konstanz.

As an undergrad at Carnegie Mellon University in Pittsburgh, Bill worked as a student affairs organizer, arranging rock concerts. In graduate school at the University of Minnesota, he worked with David Lykken, who later served as SPR president and subsequently received the Distinguished Contributions Award that Bill is now receiving. After graduate school, Bill earned tenure at the University of British Columbia in Canada, then settled back at Minnesota.

Bill’s impact on the clinical psychology training program at Minnesota is also notable, leading to a broader national impact. The Minnesota program has been widely regarded for decades as one of the nation’s top Ph.D. programs in clinical psychology. For a variety of reasons, that stature was endangered until Bill reconceptualized and revitalized the program by grounding it thoroughly in biological phenomena centrally relevant to psychopathology. He worked to hire outstanding junior colleagues, mentored them, and helped them achieve international stature of their own. Many of his students and colleagues have spoken about the generosity of his mentoring and the key role it played in their career development. Under his leadership, Minnesota has again emerged as a premier clinical psychology program, serving not only as an exceptional source of graduates prized as faculty in other programs but as a cutting-edge training program identified by NIMH as a paradigm for the nation to follow. Bill secured an NIMH training grant to fund the program, an exceedingly rare accomplishment in our contemporary funding environment. He did so in part with the clarity and creativity of vision with which he redesigned the program. In 2009, it is easy to see that developing a strong biological theme in a clinical psychology program is a sensible move. Bill did it long before it was mainstream, and the program he rebuilt remains unique to this day.

With this award, SPR recognizes not only the top-of-his-field quality and impact of Bill's work but the leadership he has provided time and again—in defining key questions to be asked, in inventing research methods for pursuing them, in revising the way we think about psychopathology and about biological phenomena that go awry in it, and in developing Minnesota's doctoral clinical training program into a national treasure. He has been doing this for over 30 years. The world has been catching up—in acknowledging a crucial role for genes in psychopathology (a profoundly unpopular view at the start of

Bill's career—again, hard to imagine now), in adopting concepts and methods he pioneered, in accepting as standard knowledge findings and perspectives he first brought to the attention of the field, and in reconceptualizing doctoral training in clinical psychology to incorporate a core emphasis on neurobiological mechanisms and processes.

Bill has been a pioneer, a builder, a mentor, a role model, a demonstration proof to so many people over the years. It is a great honor for the Society to have such a member, so deserving of the Distinguished Contributions Award.

## BIBLIOGRAPHY IN CHRONOLOGICAL ORDER

### 1974

Sales, S. M., Guydosh, R. M., & Iacono, W. G. (1974). Relationship between "strength of the nervous system" and the need for stimulation. *Journal of Personality and Social Psychology*, *29*, 16–22. Reprinted in R. A. Prentky (Ed.), *The biological aspects of normal personality* (pp. 151–157). Baltimore, MD: University Park Press.

### 1976

Iacono, W. G. (1976). Heart rate and sensorimotor performance. *Reports from the Research Laboratories of the Department of Psychiatry, University of Minnesota*. Number PR-76-3, Minneapolis.

### 1978

Iacono, W. G. (1978). Individual differences in smooth pursuit and saccadic eye movements and manual tracking performance in monozygotic twins: Some implications for schizophrenia. *Dissertation Abstracts International*, *39*, 982B–983B.

Iacono, W. G., & Lykken, D. T. (1978). Within-subject covariation in heart rate and reaction time: Effects of respiration and imperative stimulus intensity. *Biological Psychology*, *7*, 287–302.

### 1979

Iacono, W. G., & Lykken, D. T. (1979). Comments on "Smooth-pursuit eye movements: A comparison of two measurement techniques" by Lindsey, Holzman, Haberman, and Yasillo. *Journal of Abnormal Psychology*, *88*, 678–680.

Iacono, W. G., & Lykken, D. T. (1979). Electro-oculographic recording and scoring of smooth pursuit and saccadic eye tracking: A parametric study with monozygotic twins. *Psychophysiology*, *16*, 92–107.

Iacono, W. G., & Lykken, D. T. (1979). Eye tracking and psychopathology: New procedures applied to a sample of normal monozygotic twins. *Archives of General Psychiatry*, *36*, 1361–1369.

Iacono, W. G., & Lykken, D. T. (1979). The orienting response: Importance of instructions. *Schizophrenia Bulletin*, *5*, 11–14.

### 1981

Iacono, W. G., & Lykken, D. T. (1981). Two-year retest stability of eye tracking performance and a comparison of electro-oculographic and infrared recording techniques: Evidence of EEG in the electro-oculogram. *Psychophysiology*, *18*, 49–55.

Iacono, W. G. (1981). The academic job search: The experiences of a new Ph.D. in the job market. *Canadian Psychology*, *22*, 217–227.

Lykken, D. T., Iacono, W. G., & Lykken, J. D. (1981). Measuring deviant eye tracking. *Schizophrenia Bulletin*, *7*, 204–205.

Iacono, W. G., Tuason, V. B., & Johnson, R. A. (1981). Dissociation of smooth pursuit and saccadic eye tracking in remitted schizophrenics: An ocular reaction time task that schizophrenics perform well. *Archives of General Psychiatry*, *38*, 991–996.

### 1982

Iacono, W. G., Peloquin, L. J., Lumry, A. E., Valentine, R. H., & Tuason, V. B. (1982). Eye tracking in patients with unipolar and bipolar affective disorders in remission. *Journal of Abnormal Psychology*, *91*, 35–44.

Iacono, W. G. (1982). Bilateral electrodermal habituation-dishabituation and resting EEG in remitted schizophrenics. *Journal of Nervous & Mental Disease*, *170*, 91–101.

Iacono, W. G., Gabbay, F. H., & Lykken, D. T. (1982). Measuring the average evoked response to light flashes: The contribution of eye-blink artifact to augmenting-reducing. *Biological Psychiatry*, *17*, 897–911.

Iacono, W. G. (1982). Genetics of psychopathology as a tool for understanding the brain: The search for a genetic marker of schizophrenia. In I. Lieblisch (Ed.), *Genetics of the brain* (pp. 61–91). Amsterdam: Elsevier/North Holland Biomedical Press.

Lykken, D. T., Tellegen, A., & Iacono, W. G. (1982). EEG spectra in twins: Evidence for a neglected mechanism of genetic determination. *Physiological Psychology*, *10*, 60–65.

Iacono, W. G. (1982). Eye tracking in normal twins. *Behavior Genetics*, *12*, 517–526.

### 1983

Iacono, W. G. (1983). Psychophysiology and genetics: A key to psychopathology research. *Psychophysiology*, *20*, 371–383.

Iacono, W. G. (1983). Differential psychology: Another look at Pavlov. *Contemporary Psychology*, *28*, 359–361.

Iacono, W. G., & Koenig, W. G. R. (1983). Features that distinguish schizophrenic, affective disorder, and normal smooth-pursuit eye tracking. *Journal of Abnormal Psychology*, *92*, 29–41.

Iacono, W. G., & Lykken, D. T. (1983). The assessment of smooth-tracking dysfunction. *Schizophrenia Bulletin*, *9*, 44–50.

Iacono, W. G., & Lykken, D. T. (1983). The effects of instructions on electrodermal habituation. *Psychophysiology*, *20*, 71–80.

Iacono, W. G., Lykken, D. T., Peloquin, L. J., Lumry, A. E., Valentine, R. H., & Tuason, V. B. (1983). Electrodermal activity in euthymic unipolar and bipolar affective disorders: A possible marker for depression. *Archives of General Psychiatry*, *40*, 557–565.

Iacono, W. G., & Tuason, V. B. (1983). Bilateral electrodermal asymmetry in euthymic patients with unipolar and bipolar affective disorders. *Biological Psychiatry*, *18*, 303–316.

### 1984

Iacono, W. G., Boisvenu, G. A., & Fleming, J. A. (1984). The effects of diazepam and methylphenidate on the electrodermal detection of guilty knowledge. *Journal of Applied Psychology*, *69*, 289–299. Reprinted in *Polygraph*, 1984, *13*, 297–313.

Iacono, W. G., & Lykken, D. T. (1984). The effects of instructions and an engaging visual task on habituation to loud tones: An evaluation of an alternative to the traditional habituation paradigm. *Physiological Psychology*, *12*, 23–29.

Iacono, W. G., Lykken, D. T., Haroian, K. P., Peloquin, L. H., Valentine, R. H., & Tuason, V. B. (1984). Electrodermal activity in euthymic patients with affective disorders: One-year retest stability

and the effects of stimulus intensity and significance. *Journal of Abnormal Psychology*, 93, 304–311.

## 1985

Williams, K. M., Iacono, W. G., & Remick, R. A. (1985). Electrodermal activity among subtypes of depression. *Biological Psychiatry*, 20, 158–162.

Iacono, W. G. (1985). Not just another handbook. *Contemporary Psychology*, 30, 220–222.

Iacono, W. G. (1985). Psychophysiological markers of psychopathology: A review. *Canadian Psychology*, 26, 96–112.

Iacono, W. G. (1985). Guilty knowledge. *Society*, 22, 52–54.

## 1986

Iacono, W. G. (1986). Review of “A primer of drug action” by R. M. Julien. *Canadian Journal of Behavioral Science*, 18, 310–311.

Smith, G. N., & Iacono, W. G. (1986). Lateral ventricular size in schizophrenia and choice of control group. *Lancet*, i, 1450.

## 1987

Iacono, W. G., & Patrick, C. J. (1987). What psychologists should know about lie detection. In I. B. Weiner & A. K. Hess (Eds.), *Handbook of forensic psychology* (pp. 460–489). New York: John Wiley.

Mahon, M. L., & Iacono, W. G. (1987). Another look at the relationship of electrodermal activity to electrode contact area. *Psychophysiology*, 24, 216–222.

Beiser, M., Waxler-Morrison, N., Iacono, W. G., Lin, T.-Y., Fleming, J. A. E., & Husted, J. (1987). A measure of the “sick” label in psychiatric disorder and physical illness. *Social Science and Medicine*, 25, 251–261.

Iacono, W. G., Roshi, D., & Lacoste, D. (1987). Electrodermal activity in patients with Huntington’s disease and their progeny. *Psychophysiology*, 24, 522–527.

O’Toole, D. M., & Iacono, W. G. (1987). An evaluation of techniques for removing eye blink artifact from visual evoked response recordings. *Psychophysiology*, 24, 487–497.

Iacono, W. G. (1987). Effects of instructions on habituation of the orienting response: Another perspective on the study by Gruzeliier and Eves. *International Journal of Psychophysiology*, 5, 227–228.

## 1988

Iacono, W. G. (1988). Eye movement abnormalities in schizophrenic and affective disorders. In C. W. Johnston & F. J. Pirozzolo (Eds.), *Neuropsychology of eye movements* (pp. 115–145). Hillsdale, NJ: Lawrence Erlbaum Associates.

Lykken, D. T., Iacono, W. G., Haroian, K. P., McGue, M., & Bouchard, T. J. Jr. (1988). Habituation of the skin conductance response to strong stimuli: A twin study. *Psychophysiology*, 24, 4–15.

Iacono, W. G. (1988). Psychotherapy for psychopaths? *Contemporary Psychology*, 33, 116–117.

Iacono, W. G., & Patrick, C. J. (1988). Assessing deception: Polygraph techniques. In R. Rogers (Ed.), *Clinical assessment of malingering and deception* (pp. 205–233). New York: Guilford Press.

Beiser, M., Fleming, J. A. E., Iacono, W. G., & Lin, T.-Y. (1988). Refining the diagnosis of schizophreniform psychosis. *American Journal of Psychiatry*, 145, 695–700.

Iacono, W. G., Smith, G. N., Moreau, M., Beiser, M., Fleming, J. A. E., Lin, T.-Y., et al. (1988). Ventricular and sulcal size at the onset of psychosis. *American Journal of Psychiatry*, 145, 820–824. Reprinted in part in the *Annual Review of Hydrocephalus*, 7, 1989, 61–62.

Smith, G. N., Iacono, W. G., Moreau, M., Tallman, K., Beiser, M., & Flak, B. (1988). Choice of comparison group and computerized tomography findings in schizophrenia. *British Journal of Psychiatry*, 153, 667–674.

Depue, R. A., Iacono, W. G., Muir, R., & Arbisi, P. (1988). Effect of phototherapy on spontaneous eye-blink rate in seasonal affective disorder. *American Journal of Psychiatry*, 145, 1457–1459.

Iacono, W. G., Bassett, A. S., & Jones, B. D. (1988). Eye tracking dysfunction is associated with partial trisomy of chromosome 5 and schizophrenia. *Archives of General Psychiatry*, 45, 1140–1141.

Smith, G. N., & Iacono, W. G. (1988). Ventricular size in schizophrenia: Importance of choice of control subjects. *Psychiatry Research*, 26, 241–243.

## 1989

Iacono, W. G., & Ficken, J. (1989). Psychophysiological research strategies. In G. Turpin (Ed.), *Handbook of clinical psychophysiology* (pp. 45–70). London: John Wiley & Sons.

Patrick, C. J., & Iacono, W. G. (1989). Psychopathy, threat, and polygraph test accuracy. *Journal of Applied Psychology*, 74, 347–355.

Beiser, M., Iacono, W. G., & Erickson, D. (1989). Temporal stability in the major mental disorders. In L. N. Robins & J. E. Barrett (Eds.), *The validity of psychiatric diagnosis* (pp. 77–98). New York: Raven Press.

Depue, R. A., & Iacono, W. G. (1989). Neurobehavioral aspects of affective disorders. *Annual Review of Psychology*, 40, 457–492.

Iacono, W. G., Bassett, A. S., & Jones, B. D. (1989). Eye tracking dysfunction is associated with partial trisomy of chromosome 5 and schizophrenia: In reply. *Archives of General Psychiatry*, 46, 757–758.

Katsanis, J., & Iacono, W. G. (1989). Association of left-handedness with ventricular size and neuropsychological performance in schizophrenia. *American Journal of Psychiatry*, 146, 1056–1058.

Erickson, D. H., Beiser, M., Iacono, W. G., Fleming, J. A. E., & Lin, T.-Y. (1989). The role of social relationships in the course of first episode schizophrenia and affective psychosis. *American Journal of Psychiatry*, 146, 1456–1461.

Iacono, W. G., & Beiser, M. (1989). Age of onset, temporal stability, and eighteen-month course of first episode psychosis. In D. Cicchetti (Ed.), *The emergence of a discipline: Rochester symposium on developmental psychopathology* (Vol. 1, pp. 221–260). Hillsdale, NJ: Lawrence Erlbaum.

## 1990

Depue, R. A., Arbisi, P., Krauss, S., Iacono, W. G., Leon, A., Muir, R., et al. (1990). Seasonal independence of low prolactin concentration and high spontaneous eye-blink rates in unipolar and bipolar II seasonal affective disorder. *Archives of General Psychiatry*, 47, 356–364.

Katsanis, J., Iacono, W. G., & Beiser, M. (1990). Anhedonia and perceptual aberration in first-episode psychotic patients and their relatives. *Journal of Abnormal Psychology*, 99, 202–206. Reprinted in part in *Psychiatry Digest*, 3, 1991, 6–7.

Katsanis, J., & Iacono, W. G. (1990). Left handedness and ventricle size in schizophrenic patients. A reply. *American Journal of Psychiatry*, 147, 680.

Williams, K. M., Iacono, W. G., Remick, R. A., & Greenwood, P. (1990). Dichotic perception and memory following electroconvulsive treatment for depression. *British Journal of Psychiatry*, 157, 366–372.

Beiser, M., & Iacono, W. G. (1990). An update on the epidemiology of schizophrenia. *Canadian Journal of Psychiatry*, 35, 657–668.

## 1991

Iacono, W. G. (1991). Can we determine the accuracy of polygraph tests? In J. R. Jennings, P. K. Ackles, & M. G. H. Coles (Eds.), *Advances in psychophysiology* (Vol. 4, pp. 201–207). London: Jessica Kingsley Publishers.

Iacono, W. G. (1991). Lie detection: Still searching for the truth. *Contemporary Psychology*, 36, 221–223.

Grove, W. M., Lebow, B. S., Clementz, B. A., Cerri, A., Medus, C., & Iacono, W. G. (1991). Familial prevalence and co-aggregation of schizotypy indicators: A multi-trait family study. *Journal of Abnormal Psychology*, 100, 115–121.

Patrick, C. J., & Iacono, W. G. (1991). Validity of the control question polygraph test: The problem of sampling bias. *Journal of Applied Psychology*, 76, 229–238.

Patrick, C. J., & Iacono, W. G. (1991). A comparison of field and laboratory polygraphs in the detection of deception. *Psychophysiology*, 28, 632–638.

Iacono, W. G. (1991). Control groups in schizophrenia research: A neglected source of variability. In D. Cicchetti & W. M. Grove (Eds.), *Thinking clearly about psychology: Essays in honor of Paul Everett*

- Meehl (Vol. 2, pp. 430–450). Minneapolis, MN: University of Minnesota Press.
- Iacono, W. G. (1991). Psychophysiological assessment of psychopathology. *Psychological Assessment: A Journal of Consulting and Clinical Psychology*, 3, 309–320.
- Katsanis, J., & Iacono, W. G. (1991). Clinical, neuropsychological, and brain structural correlates of smooth-pursuit eye tracking performance in chronic schizophrenia. *Journal of Abnormal Psychology*, 100, 526–534.
- Clementz, B. A., Grove, W. M., Katsanis, J., & Iacono, W. G. (1991). The psychometric detection of schizotypy: Perceptual aberration and physical anhedonia in relatives of schizophrenics. *Journal of Abnormal Psychology*, 100, 607–612.
- Iacono, W. G. (1991). Another critical assault on lie detection. *Contemporary Psychology*, 36, 862–864.
- Sponheim, S. R., Iacono, W. G., & Beiser, M. (1991). Stability of ventricular size following the onset of psychosis in schizophrenia. *Psychiatry Research: Neuroimaging*, 40, 21–29.
- Katsanis, J., Iacono, W. G., & Beiser, M. (1991). Relationship of lateral ventricular size to psychophysiological measures and short-term outcome. *Psychiatry Research*, 37, 115–129.
- 1992
- Iacono, W. G., Moreau, M., Beiser, M., Fleming, J. A. E., & Lin, T.-Y. (1992). Smooth-pursuit eye tracking in first-episode psychotic patients and their relatives. *Journal of Abnormal Psychology*, 101, 104–116.
- Clementz, B. A., Grove, W. M., Iacono, W. G., & Sweeney, J. A. (1992). Smooth-pursuit eye movement dysfunction and liability for schizophrenia: Implications for genetic modeling. *Journal of Abnormal Psychology*, 101, 117–129.
- Husted, J. A., Beiser, M., & Iacono, W. G. (1992). Negative symptoms and the early course of schizophrenia. *Psychiatry Research*, 43, 215–222.
- Katsanis, J., Iacono, W. G., Beiser, M., & Lacey, L. (1992). Clinical correlates of anhedonia and perceptual aberration in first-episode psychotic patients. *Journal of Abnormal Psychology*, 101, 184–191.
- Iacono, W. G., Cerri, A. M., Patrick, C. J., & Fleming, J. A. E. (1992). Use of anti-anxiety drugs as countermeasures in the detection of guilty knowledge. *Journal of Applied Psychology*, 77, 60–64.
- Katsanis, J., & Iacono, W. G. (1992). Temporal lobe dysfunction and electrodermal nonresponding in schizophrenia. *Biological Psychiatry*, 31, 159–170.
- Clementz, B. A., Iacono, W. G., Ficken, J., & Beiser, M. (1992). A family study of nailfold plexus visibility in psychotic disorders. *Biological Psychiatry*, 31, 378–390.
- Allen, J. J., Iacono, W. G., & Danielson, K. D. (1992). The identification of concealed memories using the event-related potential and implicit behavioral measures: A methodology for prediction in the face of individual differences. *Psychophysiology*, 29, 504–522.
- Katsanis, J., Ficken, J., Iacono, W. G., & Beiser, M. (1992). Season of birth and electrodermal activity in functional psychoses. *Biological Psychiatry*, 31, 841–855.
- Iacono, W. G., & Beiser, M. (1992). Are males more likely than females to develop schizophrenia? *American Journal of Psychiatry*, 149, 1070–1074.
- Iacono, W. G. (1992). Of course we can evaluate polygraph techniques. *Contemporary Psychology*, 37, 831.
- Grove, W. M., Clementz, B. A., Iacono, W. G., & Katsanis, J. (1992). Smooth pursuit ocular motor dysfunction in schizophrenia: Evidence for a major gene. *American Journal of Psychiatry*, 149, 1362–1368.
- Iacono, W. G., & Beiser, M. (1992). Where are the women in first-episode studies of schizophrenia? *Schizophrenia Bulletin*, 18, 471–480.
- 1993
- Iacono, W. G., & Clementz, B. A. (1993). A strategy for elucidating genetic influences on complex psychopathological syndromes (with special reference to ocular motor functioning and schizophrenia). In L. J. Chapman, J. P. Chapman, & D. Fowles (Eds.), *Progress in experimental personality and psychopathology research* (Vol. 16, pp. 11–65). New York: Springer.
- Clementz, B. A., & Iacono, W. G. (1993). Nosology and diagnosis. In A. S. Bellack & M. Hersen (Eds.), *Psychopathology in adulthood* (pp. 3–20). New York: Allyn & Bacon.
- Gooding, D. C., Iacono, W. G., Katsanis, J., Beiser, M., & Grove, W. M. (1993). The association between lithium carbonate and smooth pursuit eye tracking among first-episode patients with psychotic affective disorders. *Psychophysiology*, 30, 3–9.
- Iacono, W. G. (1993). Does schizophrenia exist? *Contemporary Psychology*, 38, 44–45.
- Iacono, W. G., & Grove, W. M. (1993). Schizophrenia research: Toward an integrative genetic model. *Psychological Science*, 4, 273–276.
- Beiser, M., Erickson, D., Fleming, J. A. E., & Iacono, W. G. (1993). Establishing the onset of psychotic illness. *American Journal of Psychiatry*, 150, 1349–1354.
- McGue, M., Bouchard, T. J. Jr., Iacono, W. G., & Lykken, D. T. (1993). Behavioral genetics of cognitive ability: A life-span perspective. In R. Plomin & G. E. McClearn (Eds.), *Nature, nurture, and psychology* (pp. 59–76). Washington, DC: American Psychological Association Press.
- Iacono, W. G., & Beiser, M. (1993). Excess of male schizophrenia among first episode psychotic patients: A reply to Castle. *American Journal of Psychiatry*, 150, 1432.
- Allen, J. J., Iacono, W. G., Depue, R. A., & Arbisi, P. (1993). Regional electroencephalographic asymmetries in bipolar seasonal affective disorder before and after exposure to bright light. *Biological Psychiatry*, 33, 642–646.
- Iacono, W. G., Ficken, J. W., & Beiser, M. (1993). Electrodermal nonresponding in first-episode psychosis as a function of stimulus significance. In J. C. Roy, W. Boucsein, D. C. Fowles, & J. H. Gruzelier (Eds.), *Progress in electrodermal research* (pp. 239–255). London: Pergamon.
- Iacono, W. G. (1993). Smooth-pursuit oculomotor dysfunction as an index of schizotaxia. In R. L. Cromwell & C. R. Snyder (Eds.), *Schizophrenia: Origins, processes, treatment, and outcome* (pp. 76–97). New York: Oxford University Press.
- 1994
- Sponheim, S. R., Clementz, B. A., Iacono, W. G., & Beiser, M. (1994). Resting EEG in first-episode and chronic schizophrenia. *Psychophysiology*, 31, 37–43.
- Gooding, D. C., Iacono, W. G., & Beiser, M. (1994). Temporal stability of smooth pursuit eye tracking in first episode psychosis. *Psychophysiology*, 31, 62–67.
- O'Toole, D., Yuille, J. C., Patrick, C. J., & Iacono, W. G. (1994). Alcohol and the detection of deception: Arousal and memory influences. *Psychophysiology*, 31, 253–263.
- Katsanis, J., & Iacono, W. G. (1994). Electrodermal activity and clinical status in chronic schizophrenia. *Journal of Abnormal Psychology*, 103, 777–783.
- Beiser, M., Bean, G., Erickson, D., Zhang, J., Iacono, W. G., & Rector, N. A. (1994). Biological and psychosocial predictors of job performance following a first episode of psychosis. *American Journal of Psychiatry*, 151, 857–863.
- Iacono, W. G. (1994). Differential psychology: Where's the biology? *Contemporary Psychology*, 39, 266–268.
- Clementz, B. A., Sponheim, S. R., Iacono, W. G., & Beiser, M. (1994). Resting EEG in first-episode schizophrenia patients, bipolar psychosis patients, and their first-degree relatives. *Psychophysiology*, 31, 486–494.
- Iacono, W. G. (1994, April 5). Government makes mistakes in relying on lie detectors. *Minneapolis Star Tribune*, p. 9A.
- Clementz, B. A., Iacono, W. G., & Beiser, M. (1994). Handedness in first-episode psychotic patients and their first-degree biological relatives. *Journal of Abnormal Psychology*, 103, 400–403.
- Grove, W. M., & Iacono, W. G. (1994). Comment on Levy et al. "Eye tracking and schizophrenia: A critical perspective." *Schizophrenia Bulletin*, 20, 781–786.
- Lund, T., Sponheim, S. R., Clementz, B. A., & Iacono, W. G. (1994). Internal consistency reliability of resting EEG power spectra in schizophrenic and normal subjects. *Psychophysiology*, 32, 66–71.
- Feil, K. J., Iacono, W. G., & Grove, W. M. (1994). The effect of chronic alcohol use on smooth pursuit eye movement. *Psychiatry Research*, 52, 99–101.

1995

- Sponheim, S. R., Allen, J. J., & Iacono, W. G. (1995). Selected psychophysiological measures in depression: The significance of electrodermal activity, electroencephalographic asymmetries, and contingent negative variation to behavioral and neurobiological aspects of depression. In G. A. Miller (Ed.), *The behavioral high risk paradigm in psychopathology* (pp. 222–249). New York: Springer-Verlag.
- Iacono, W. G. (1995). Offender testimony: The detection of deception and guilty knowledge. In N. Brewer & C. Wilson (Eds.), *Psychology and policing* (pp. 155–171). Hillsdale, NJ: Lawrence Erlbaum.
- Gooding, D. C., & Iacono, W. G. (1995). Schizophrenia through the lens of a developmental psychopathology perspective. In D. Cicchetti & D. Cohen (Eds.), *Manual on developmental psychopathology* (pp. 535–580). New York: Cambridge.
- Sherman, D. K., Iacono, W. G., & Donnelly, J. M. (1995). Development and validation of body rating scales for adolescent females. *International Journal of Eating Disorders*, *18*, 327–333.
- Iacono, W. G. (1995). Digesting molecular biology. *Contemporary Psychology*, *40*, 961–962.
- Hammer, M. A., Katsanis, J., & Iacono, W. G. (1995). Relationship between negative symptoms and neuropsychological performance. *Biological Psychiatry*, *37*, 828–830.
- Allen, J. J., Iacono, W. G., Laravuso, J. J., & Dunn, L. A. (1995). An event-related potential investigation of posthypnotic recognition amnesia. *Journal of Abnormal Psychology*, *104*, 421–430.
- Cacioppo, J. T., Berg, W. K., Berntson, G. G., Bradley, M. M., Carroll, D., Davidson, R. J., Iacono, W. G., et al. (1995). Editorial. *Psychophysiology*, *32*, 1–3.
- Zhang-Wong, J., Beiser, M., Bean, G., & Iacono, W. G. (1995). Five year course of schizophreniform disorder. *Psychiatry Research*, *59*, 109–117.
- Hur, Y.M., McGue, M., & Iacono, W. G. (1995). Unequal rate of monozygotic and like-sex dizygotic twin births: Evidence from the Minnesota Twin Family Study. *Behavior Genetics*, *25*, 337–340.
- Husted, J. A., Beiser, M., & Iacono, W. G. (1995). Negative symptoms in the course of first-episode affective psychosis. *Psychiatry Research*, *56*, 145–154.

1996

- Katsanis, J., Iacono, W. G., & Beiser, M. (1996). Visual event related potentials in first-episode psychotic patients and their relatives. *Psychophysiology*, *33*, 207–217.
- Katsanis, J., Iacono, W. G., & Beiser, M. (1996). Eye tracking performance and adaptive functioning over the short-term course of first-episode psychosis. *Psychiatry Research*, *64*, 19–26.
- Iacono, W. G., Lykken, D. T., & McGue, M. (1996). Psychophysiological prediction of substance abuse. In H. W. Gordon & M. D. Glanz (Eds.), *Individual differences in the biobehavioral etiology of drug abuse* (pp. 129–160). Rockville, MD: National Institute on Drug Abuse.
- McGue, M., Lykken, D. T., & Iacono, W. G. (1996). Genotype-environment correlations and interactions in the etiology of substance abuse and related behaviors. In H. W. Gordon & M. D. Glanz (Eds.), *Individual differences in the biobehavioral etiology of drug abuse* (pp. 49–80). Rockville, MD: National Institute on Drug Abuse.
- Clementz, B. A., Iacono, W. G., & Grove, W. M. (1996). The construct validity of root-mean-square error for quantifying smooth-pursuit eye tracking abnormalities in schizophrenia. *Biological Psychiatry*, *39*, 448–450.
- Hur, Y.-M., McGue, M. K., & Iacono, W. G. (1996). Genetic and shared environmental influences on leisure time interests in male adolescents. *Personality & Individual Differences*, *21*, 791–801.
- Bean, G., Beiser, M., Zhang-Wong, J., & Iacono, W. (1996). Negative labeling of individuals with first episode schizophrenia: The effect of premorbid functioning. *Schizophrenia Research*, *22*, 111–118.
- Billig, J. P., Hershberger, S. L., Iacono, W. G., & McGue, M. (1996). Life events and personality in late adolescence: Genetic and environmental relations. *Behavior Genetics*, *26*, 543–554.
- Katsanis, J., Iacono, W. G., & McGue, M. K. (1996). The association between P300 and age from preadolescence to early adulthood. *International Journal of Psychophysiology*, *24*, 213–221.

1997

- Katsanis, J., Iacono, W. G., McGue, M. M., & Carlson, S. R. (1997). P300 event-related potential heritability in monozygotic and dizygotic twins. *Psychophysiology*, *34*, 47–58.
- Allen, J. J. B., & Iacono, W. G. (1997). A comparison of methods for the analysis of event-related potentials in deception detection. *Psychophysiology*, *34*, 234–240.
- Elkins, I. J., McGue, M., Iacono, W. G., & Tellegen, A. (1997). Genetic and environmental influences on parent-son relationships: Evidence for increasing genetic influence during adolescence. *Developmental Psychology*, *33*, 351–363.
- Sherman, D. K., McGue, M. K., & Iacono, W. G. (1997). Twin concordance for attention-deficit hyperactivity disorder: A comparison of teachers' and mothers' reports. *American Journal of Psychiatry*, *154*, 532–535.
- Carlson, S. R., Katsanis, J. K., Iacono, W. G., & McGue, M. (1997). Emotional modulation of the startle reflex in twins: Preliminary findings. *Biological Psychology*, *46*, 235–246.
- Elkins, I. J., Iacono, W. G., Doyle, A. E., & McGue, M. (1997). Characteristics associated with the persistence of antisocial behavior: Results from recent longitudinal research. *Aggression and Violent Behavior: A Review Journal*, *2*, 101–124.
- Sponheim, S. R., Iacono, W. G., Clementz, B. A., & Beiser, M. (1997). Season of birth and electroencephalogram power abnormalities in schizophrenia. *Biological Psychiatry*, *41*, 1020–1027.
- McGue, M., Slutske, W., Taylor, J., & Iacono, W. G. (1997). Personality and substance use disorders. I. Effects of gender and alcoholism subtype. *Alcoholism: Clinical & Experimental Research*, *21*, 513–520.
- Iacono, W. G., & Lykken, D. T. (1997). The scientific status of research on polygraph techniques: The case against polygraph tests. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony* (pp. 582–618). St. Paul, MN: West Publishing.
- Iacono, W. G., & Lykken, D. T. (1997). A response to Professors Raskin, Honts, and Kircher. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony* (pp. 627–629). St. Paul, MN: West Publishing.
- Iacono, W. G., & Lykken, D. T. (1997). A rejoinder to Raskin, Honts, and Kircher. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony* (pp. 631–633). St. Paul, MN: West Publishing.
- Iacono, W. G., & Lykken, D. T. (1997). The validity of the lie detector: Two surveys of scientific opinion. *Journal of Applied Psychology*, *82*, 426–433.
- Sherman, D. K., Iacono, W. G., & McGue, M. K. (1997). Attention-deficit hyperactivity disorder dimensions: A twin study of inattention and impulsivity-hyperactivity. *Journal of the American Academy of Child and Adolescent Psychiatry*, *36*, 745–753. Abstracted in *Youth Update*, *15* (1997).
- Katsanis, J., Kortencamp, S., Iacono, W. G., & Grove, W. M. (1997). Antisaccade performance in schizophrenia and affective disorder. *Journal of Abnormal Psychology*, *106*, 468–472.

1998

- Holdcraft, L. C., Iacono, W. G., & McGue, M. K. (1998). Antisocial personality disorder and depression in relation to alcoholism: A community based sample. *Journal of Studies on Alcohol*, *59*, 222–226. Abstracted in *Clinician's Research Digest* (1998), *16*, 5.
- Katsanis, J., Iacono, W. G., & Harris, M. (1998). Development of oculomotor functioning in preadolescence, adolescence, and adulthood. *Psychophysiology*, *35*, 64–72.
- Katsanis, J., Iacono, W. G., McGue, M., & Carlson, S. R. (1998). P300 event-related potential in monozygotic and dizygotic twins: Erratum. *Psychophysiology*, *35*, 133.
- Iacono, W. G., & Patrick, C. J. (1998). Polygraph techniques and integrity testing. In R. Rogers (Ed.), *Clinical assessment of malingering and deception* (2nd ed, pp. 252–281). New York: Guilford.
- Iacono, W. G. (1998). Identifying genetic risk for psychopathology. In D. K. Routh & R. J. DeRubeis (Eds.), *The science of clinical psychology: Accomplishments and future directions* (pp. 3–22). Washington, DC: American Psychological Association.
- Hur, Y. M., McGue, M., & Iacono, W. G. (1998). The structure of self-concept in female pre-adolescent twins: A behavioral genetic

- approach. *Journal of Personality and Social Psychology*, 74, 1069–1077.
- McGuire, K. A., Katsanis, J., Iacono, W. G., & McGue, M. (1998). Genetic influences on the spontaneous EEG: An examination of 15-year-old and 17-year-old twins. *Developmental Neuropsychology*, 14, 7–18.
- Erickson, D. H., Beiser, M., & Iacono, W. G. (1998). Social support predicts five-year outcome in first episode schizophrenia. *Journal of Abnormal Psychology*, 107, 681–685.
- Iacono, W. G. (1998). Identifying psychophysiological risk for psychopathology: Examples from substance abuse and schizophrenia research. *Psychophysiology*, 35, 621–637.
- Zald, D., & Iacono, W. G. (1998). The development of spatial working memory abilities. *Developmental Neuropsychology*, 14, 563–578.
- 1999
- Iacono, W. G., & Patrick, C. J. (1999). Polygraph (“lie detector”) testing: The state of the art. In A. K. Hess & I. B. Weiner (Eds.), *The handbook of forensic psychology* (2nd ed, pp. 440–473). New York: Wiley.
- Taylor, J., Carlson, S. R., Iacono, W. G., Lykken, D. T., & McGue, M. (1999). Individual differences in electrodermal responsivity to predictable aversive stimuli and substance dependence. *Psychophysiology*, 36, 193–198.
- Curtis, C. E., Iacono, W. G., & Beiser, M. (1999). Relationship between naitfold plexus visibility and clinical, neuropsychological, and brain structural measures in schizophrenia. *Biological Psychiatry*, 46, 102–109.
- Iacono, W. G., & Lykken, D. T. (1999). Update: The scientific status of research on polygraph techniques: The case against polygraph tests. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony. Volume 1. 1999 Pocket Part* (pp. 174–184). St. Paul, MN: West Publishing.
- McGue, M., Slutske, W., & Iacono, W. G. (1999). Personality and substance use disorders. II. Alcoholism versus drug use disorders. *Journal of Consulting and Clinical Psychology*, 67, 394–404.
- Curtis, C. E., Lebow, B., Lake, D. S., Katsanis, J., & Iacono, W. G. (1999). Acoustic startle reflex in schizophrenia patients and their first-degree relatives: Evidence of normal emotional modulation. *Psychophysiology*, 36, 469–475.
- Legrand, L. N., McGue, M., & Iacono, W. G. (1999). A twin study of state and trait anxiety in childhood and adolescence. *Journal of Child Psychology & Psychiatry*, 40, 953–958.
- Snitz, B. E., Curtis, C. E., Zald, D. H., Katsanis, J., & Iacono, W. G. (1999). Neuropsychological and oculomotor correlates of spatial working memory performance in schizophrenia patients and controls. *Schizophrenia Research*, 38, 37–50.
- Disney, E. R., Elkins, I. J., McGue, M., & Iacono, W. G. (1999). The effects of ADHD, conduct disorder, and gender on substance use and abuse in adolescence. *American Journal of Psychiatry*, 156, 1515–1521. Abstracted in *Outcomes Accountability Alert* (1999), 4, 3–4.
- Han, C., McGue, M. K., & Iacono, W. G. (1999). Lifetime tobacco, alcohol, and other substance use in adolescent Minnesota twins: Univariate and multivariate behavioral genetic analyses. *Addiction*, 94, 981–993.
- Iacono, W. G., Carlson, S. R., Taylor, J. T., Elkins, I. J., & McGue, M. (1999). Behavioral disinhibition and the development of substance use disorders: Findings from the Minnesota Twin Family Study. *Development & Psychopathology*, 11, 869–900.
- Carlson, S. R., Katsanis, J., Iacono, W. G., & Mertz, A. K. (1999). Substance dependence and externalizing psychopathology in adolescent boys with small, average, or large P300 event-related potential amplitude. *Psychophysiology*, 36, 583–590. Abstracted in *Alcohol Research* (1999), 4, 247–248.
- Gooding, D. C., Iacono, W. G., & Hanson, D. R. (1999). Smooth pursuit and saccadic eye movement performance in a prefrontal leukotomy patient. *Journal of Psychiatry & Neuroscience*, 24, 462–467. Reprinted in part in *Review Series Psychiatry*, 4, 4–5.
- Iacono, W. G., Ficken, J. W., & Beiser, M. (1999). Electrodermal activation in first-episode psychotic patients and their first-degree relatives. *Psychiatry Research*, 88, 25–39.
- Legrand, L. N., McGue, M., & Iacono, W. G. (1999). Searching for interactive effects in the etiology of early-onset substance use. *Behavior Genetics*, 29, 433–444.
- 2000
- Conklin, H. M., Curtis, C. E., Iacono, W. G., & Katsanis, J. (2000). Verbal working memory impairment in schizophrenia patients and their first-degree relatives. *American Journal of Psychiatry*, 157, 275–277.
- Klump, K. L., McGue, M., & Iacono, W. G. (2000). Age differences in genetic and environmental influences on eating attitudes and behaviors in preadolescent and adolescent female twins. *Journal of Abnormal Psychology*, 109, 239–251.
- Iacono, W. G. (2000). Contribution 36. In F. Pyszczak (Ed.), *Completing your thesis or dissertation: Professors share their techniques and strategies* (pp. 47–54). Los Angeles: Pyszczak Publishing.
- Iacono, W. G. (2001). “Forensic “lie detection”: Procedures without scientific basis. *Journal of Forensic Psychology Practice*, 1, 74–86.
- Klump, K. L., Holly, A., Iacono, W. G., McGue, M., & Wilson, L. E. (2000). Physical similarity and twin resemblance for eating attitudes and behaviors: A test of the equal environments assumption. *Behavior Genetics*, 30, 51–58.
- Katsanis, J., Taylor, J., Iacono, W. G., & Hammer, M. A. (2000). Heritability of different measures of smooth pursuit eye tracking dysfunction: A study of normal twins. *Psychophysiology*, 37, 724–730.
- Taylor, J., McGue, M., & Iacono, W. G. (2000). Sex differences, assortative mating, and cultural transmission effects on adolescent delinquency: A twin family study. *Journal of Child Psychology and Psychiatry & Allied Disciplines*, 41, 433–440.
- Iacono, W. G., Carlson, S. R., & Malone, S. M. (2000). Identifying a multivariate endophenotype for substance use disorders using psychophysiological measures. *International Journal of Psychophysiology*, 38, 81–96.
- Calkins, M. E., & Iacono, W. G. (2000). Eye movement dysfunction in schizophrenia: A heritable characteristic for enhancing phenotype definition. *American Journal of Medical Genetics*, 97, 72–76.
- Clement, B. A., & Iacono, W. G. (2000). Nosology and diagnosis. In M. Hersen & A. S. Bellack (Eds.), *Psychopathology in adulthood* (2nd ed, pp. 3–24). Needham Heights, MA: Allyn & Bacon.
- Iacono, W. G. (2000). The detection of deception. In J. T. Cacioppo, L. G. Tassinari, & G. Berntson (Eds.), *Handbook of psychophysiology* (2nd ed, pp. 772–793). New York: Cambridge University Press.
- Taylor, J., McGue, M., Iacono, W. G., & Lykken, D. T. (2000). A behavioral genetic analysis of the relationship between the socialization scale and self-reported delinquency. *Journal of Personality*, 68, 29–50.
- McGue, M., Elkins, I., & Iacono, W. G. (2000). Genetic and environmental influences on adolescent substance use and abuse. *American Journal of Medical Genetics (Neuropsychiatric Genetics)*, 96, 671–677.
- Taylor, J. T., Iacono, W. G., & McGue, M. (2000). Evidence for a genetic etiology of early-onset delinquency. *Journal of Abnormal Psychology*, 109, 634–643.
- Sponheim, S. R., Clementz, B. A., Iacono, W. G., & Beiser, M. (2000). Clinical and biological concomitants of resting state EEG power abnormalities in schizophrenia. *Biological Psychiatry*, 48, 1088–1097.
- 2001
- Curtis, C. E., Calkins, M. E., Grove, W. M., Feil, K. J., & Iacono, W. G. (2001). Saccadic disinhibition in patients with acute and remitted schizophrenia and their first-degree biological relatives. *American Journal of Psychiatry*, 158, 100–106.
- Krueger, R. F., McGue, M., & Iacono, W. G. (2001). The higher order structure of common DSM mental disorders: Internalization, externalization, and their connections to personality. *Personality and Individual Differences*, 30, 1245–1259.
- Malone, S. M., Iacono, W. G., & McGue, M. (2001). Event-related potentials and comorbidity in alcohol-dependent males. *Psychophysiology*, 38, 367–376.
- Conklin, H. M., Curtis, C. E., Iacono, W. G., & Katsanis, J. (2001). Response to a letter to the editor, re: Verbal working memory impairment in schizophrenia patients and their first-degree relatives: Evidence from the digit span task. *American Journal of Psychiatry*, 158, 660a–661a.
- Klump, K. L., Miller, K. B., Keel, P. K., McGue, M., & Iacono, W. G. (2001). Genetic and environmental influences on anorexia nervosa

- syndromes in a population-based twin sample. *Psychological Medicine*, 31, 737–740.
- Sponheim, S. R., Iacono, W. G., Thuras, P. D., & Beiser, M. (2001). Using biological indices to classify schizophrenia and other psychotic disorders. *Schizophrenia Research*, 50, 139–150.
- Curtis, C. E., Calkins, M. E., & Iacono, W. G. (2001). Saccadic disinhibition in schizophrenia patients and their relatives: A parametric study of the effects of increasing inhibitory load. *Experimental Brain Research*, 137, 228–236.
- Marmorstein, N. R., & Iacono, W. G. (2001). An investigation of female adolescent twins with both major depression and conduct disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 40, 299–306.
- Calkins, M. E., Katsanis, J., Hammer, M. A., & Iacono, W. G. (2001). The misclassification of blinks as saccades: Implications for investigations of eye movement dysfunction in schizophrenia. *Psychophysiology*, 38, 761–767.
- McGue, M., Iacono, W. G., Legrand, L., Malone, S., & Elkins, I. (2001). Origins and consequences of age at first drink. I. Associations with substance-use disorders, disinhibitory behavior and psychopathology, and P3 amplitude. *Alcoholism: Clinical & Experimental Research*, 25, 1156–1165.
- McGue, M., Iacono, W. G., Legrand, L., & Elkins, I. (2001). Origins and consequences of age at first drink. II. Familial risk and heritability. *Alcoholism: Clinical & Experimental Research*, 25, 1166–1173.
- Burt, S. A., Krueger, R. F., McGue, M., & Iacono, W. G. (2001). Sources of covariation among attention deficit-hyperactivity disorder, oppositional defiant disorder, and conduct disorder: The importance of shared environment. *Journal of Abnormal Psychology*, 110, 516–525.
- Comings, D. E., Wu, S., Gonzalez, N., Iacono, W. G., McGue, M., Peters, W. W., & MacMurray, J. P. (2001). Cholecystokinin (CCK) gene as a possible risk factor for smoking: A replication in two independent samples. *Molecular Genetics & Metabolism*, 73, 349–353.
- Allen, J. J. B., & Iacono, W. G. (2001). Assessing the validity of amnesia in dissociative identity disorder: A dilemma for the DSM and the courts. *Psychology, Public Policy, and Law*, 7, 311–344.
- 2002
- Conklin, H. M., & Iacono, W. G. (2002). Schizophrenia: A neurodevelopmental perspective. *Current Directions*, 11, 33–37. Reprinted in T. F. Oltmanns & R. E. Emery (Eds.). (2004). *Current directions in abnormal psychology* (pp. 122–129). Upper Saddle River, NJ: Pearson/Prentice Hall.
- Von Ranson, K. M., Iacono, W. G., & McGue, M. (2002). Disordered eating and substance use in an epidemiological sample: I. Associations within individuals. *International Journal of Eating Disorders*, 31, 389–403.
- Comings, D. E., Wu, S., Rostamkhani, M., McGue, M., Iacono, W. G., & MacMurray, J. P. (2002). Association of the muscarinic cholinergic 2 receptor (CHRM2) gene with major depression in women. *American Journal of Medical Genetics (Neuropsychiatric Genetics)*, 114, 527–529.
- Klump, K. L., McGue, M., & Iacono, W. G. (2002). Genetic relationships between personality and eating attitudes and behaviors. *Journal of Abnormal Psychology*, 111, 380–389.
- Iacono, W. G., Carlson, S. R., Malone, S. M., & McGue, M. (2002). P3 event-related potential amplitude and the risk for disinhibitory disorders in adolescent boys. *Archives of General Psychiatry*, 59, 750–757.
- Holdcraft, L. C., & Iacono, W. G. (2002). Cohort effects on gender differences in alcohol dependence. *Addiction*, 97, 1025–1036.
- Malone, S. M., & Iacono, W. G. (2002). Error rate on the antisaccade task: Heritability and developmental change in performance among preadolescent and late adolescent female twin youth. *Psychophysiology*, 39, 664–673.
- Burt, S. A., McGue, M., Iacono, W., Comings, D., & MacMurray, J. (2002). An examination of the association between DRD4 and DRD2 polymorphisms and personality traits. *Personality & Individual Differences*, 33, 849–859.
- Taylor, J., Malone, S., Iacono, W. G., & McGue, M. (2002). Development of substance dependence in two delinquency subgroups and non-delinquents from a male twin sample. *Journal of the American Academy of Child and Adolescent Psychiatry*, 41, 386–393.
- Krueger, R. F., Hicks, B. M., Patrick, C. J., Carlson, S. R., Iacono, W. G., & McGue, M. (2002). Etiologic connections among substance dependence, antisocial behavior, and personality: Modeling the externalizing spectrum. *Journal of Abnormal Psychology*, 111, 411–424.
- Bottini, N., MacMurray, J., Rostamkani, M., McGue, M., Iacono, W. G., & Comings, D. (2002). Association between the low molecular weight cytosolic acid phosphatase gene ACP1<sub>μ</sub>A and comorbid features of Tourette syndrome. *Neuroscience Letters*, 330, 198–200.
- Iacono, W. G., & Lykken, D. T. (2002). The scientific status of research on polygraph techniques: The case against polygraph tests. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony* (Vol. 2., pp. 483–538). St. Paul, MN: West Publishing. Reprinted in D. L. Faigman, D. H. Kaye, M. J. Saks, J. Sanders (Eds.). (2002). *Science in the law: Forensic and science issues* (pp. 609–663). St. Paul, MN: West Publishing.
- Carlson, S. R., Iacono, W. G., & McGue, M. (2002). P300 amplitude in adolescent twins discordant and concordant for alcohol use disorders. *Biological Psychology*, 61, 203–227.
- Iacono, W. G., & McGue, M. (2002). Minnesota Twin Family Study. *Twin Research*, 5, 482–487.
- Malone, S. M., Iacono, W. G., & McGue, M. (2002). Drinks of the father: Father's maximum number of drinks consumed predicts externalizing disorders, substance use, and substance use disorders in preadolescent and adolescent offspring. *Alcoholism: Clinical and Experimental Research*, 26, 1823–1832.
- Conklin, H. M., Calkins, M. E., Anderson, C. W. III, Dinzeo, T. J., & Iacono, W. G. (2002). Recognition memory for faces in schizophrenia patients and their first-degree relatives. *Neuropsychologia*, 40, 2314–2324.
- 2003
- Calkins, M. E., & Iacono, W. G. (2003). Schizophrenia. In J. J. Ponzetti Jr. (Ed.), *International encyclopedia of marriage and family* (2nd ed., Vol. 3, pp. 1402–1405). New York: Thomson-Gale.
- Calkins, M. E., Iacono, W. G., & Curtis, C. E. (2003). Smooth pursuit and antisaccade performance: Evidence of trait stability in schizophrenia patients and their relatives. *International Journal of Psychophysiology*, 49, 139–146.
- Comings, D. E., Wu, S., Rostamkani, M., McGue, M., Iacono, W. G., Cheng, L. S.-C., & MacMurray, J. P. (2003). Role of the cholinergic muscarinic receptor (CHRM2) gene in cognition. *Molecular Psychiatry*, 8, 10–13.
- Conklin, H. M., & Iacono, W. G. (2003). Assessment of schizophrenia: Getting closer to the cause. *Schizophrenia Bulletin*, 29, 405–411.
- Iacono, W. G., Malone, S. M., & McGue, M. (2003). Substance use disorders, externalizing psychopathology, and P300 event-related potential amplitude. *International Journal of Psychophysiology*, 48, 147–178.
- Marmorstein, N., & Iacono, W. G. (2003). Major depression and conduct disorder in twins by late adolescence: Functioning and risk for future psychopathology. *Journal of the American Academy of Child and Adolescent Psychopathology*, 42, 225–233.
- Burcusa, S. L., Iacono, W. G., & McGue, M. (2003). Adolescent twins discordant for major depressive disorder: Shared familial liability to externalizing and other internalizing disorders. *Journal of Child Psychology and Psychiatry*, 44, 997–1005.
- Sponheim, S. R., Iacono, W. G., Thuras, P. D., Nugent, S. M., & Beiser, M. (2003). Sensitivity and specificity of select biological indices in characterizing psychotic patients and their relatives. *Schizophrenia Research*, 63, 27–38.
- Burt, A., Krueger, R. F., McGue, M., & Iacono, W. G. (2003). Parent-child conflict and the comorbidity among childhood externalizing disorders. *Archives of General Psychiatry*, 60, 505–513.
- Taylor, J., Loney, B. R., Bobadilla, L., Iacono, W. G., & McGue, M. (2003). Genetic and environmental influences on psychopathy: Findings from an adolescent male twin cohort. *Journal of Abnormal Child Psychology*, 31, 633–645.
- Klump, K. L., McGue, M., & Iacono, W. G. (2003). Differential heritability of eating attitudes and behaviors in prepubertal and pubertal twins. *International Journal of Eating Disorders*, 33, 287–292.
- Von Ranson, K. M., McGue, M., & Iacono, W. G. (2003). Disordered eating and substance use in an epidemiological sample: II. Associa-

tions within families. *Psychology of Addictive Behavior*, 17, 193–202. Reprinted in M. Plant & M. Plant (Eds.). (2008). *Addiction: Major themes in health & social welfare* (pp. 131–154). Oxford: Routledge press.

## 2004

- McGue, M., & Iacono, W. G. (2004). The initiation of substance use in adolescence: A behavior genetics perspective. In L. F. DiLalla (Ed.), *Behavior genetic principles: Perspectives in development, personality, and psychopathology* (pp. 41–57). Washington, DC: American Psychological Association.
- Marmorstein, N., & Iacono, W. G. (2004). Major depression and conduct disorder in youth: Associations with parental psychopathology and parent child conflict. *Journal of Child Psychology & Psychiatry*, 45, 377–386.
- Holdcraft, L. C., & Iacono, W. G. (2004). Cross-generational effects on gender differences in psychoactive drug abuse and dependence. *Drug and Alcohol Dependence*, 74, 147–158.
- Calkins, M. E., Curtis, C. E., Grove, W. M., & Iacono, W. G. (2004). Multiple dimensions of schizotypy in first degree biological relatives of schizophrenia patients. *Schizophrenia Bulletin*, 30, 317–325.
- Krueger, R. F., Nichol, P. E., Hicks, B. M., Markon, K. E., Patrick, C. J., Iacono, W. G., & McGue, M. (2004). Using latent trait modeling to conceptualize an alcohol problems continuum. *Psychological Assessment*, 16, 107–119.
- Marmorstein, N. R., Malone, S. M., & Iacono, W. G. (2004). Psychiatric disorders among offspring of depressed mothers: Associations with paternal psychopathology. *American Journal of Psychiatry*, 161, 1588–1594.
- Elkins, I. J., McGue, M., Malone, S., & Iacono, W. G. (2004). The effect of parental alcohol and drug disorders on adolescent personality. *American Journal of Psychiatry*, 161, 670–676.
- Hicks, B. M., Krueger, R. F., Iacono, W. G., McGue, M., & Patrick, C. J. (2004). The family transmission and heritability of externalizing disorders: A twin-family study. *Archives of General Psychiatry*, 61, 922–928.
- Walden, B., McGue, M., Iacono, W. G., Burt, S. A., & Elkins, I. (2004). Identifying shared environmental contributions to early substance use: The respective roles of peers and parents. *Journal of Abnormal Psychology*, 113, 440–450.
- Malone, S. M., Taylor, J., Marmorstein, N. R., McGue, M., & Iacono, W. G. (2004). Genetic and environmental influences on antisocial behavior and alcohol dependence from adolescence to early adulthood. *Development and Psychopathology*, 16, 943–966.
- Calkins, M. E., Curtis, C. E., Iacono, W. G., & Grove, W. M. (2004). Antisaccade performance is impaired in medically and psychiatrically healthy biological relatives of schizophrenia patients. *Schizophrenia Research*, 71, 167–178.
- King, S., Iacono, W. G., & McGue, M. (2004). Childhood externalizing and internalizing psychopathology in prospective prediction of early substance use. *Addiction*, 99, 1548–1559.
- Carlson, S. R., Iacono, W. G., & McGue, M. (2004). P300 amplitude in non-alcoholic adolescent twin pairs who become discordant for alcoholism as adults. *Psychophysiology*, 41, 841–844.

## 2005

- Legrand, L. N., Iacono, W. G., & McGue, M. (2005). Predicting addiction. *American Scientist*, 93, 140–147.
- Perkins, P. S., Klump, K. L., Iacono, W. G., & McGue, M. (2005). Personality traits in women with anorexia nervosa: Evidence for a treatment-seeking bias? *International Journal of Eating Disorders*, 37, 32–37.
- Blonigen, D. M., Hicks, B. M., Krueger, R. F., Patrick, C. J., & Iacono, W. G. (2005). Psychopathic personality traits: Heritability and genetic overlap with internalizing and externalizing psychopathology. *Psychological Medicine*, 35, 637–648.
- Benning, S. D., Patrick, C. J., Blonigen, D. M., Hicks, B. M., & Iacono, W. G. (2005). Estimating facets of psychopathy from normal personality traits: A step toward community-epidemiological investigations. *Assessment*, 12, 3–18.
- Benning, S. D., Patrick, C. J., & Iacono, W. G. (2005). Psychopathy, startle blink modulation, and electrodermal reactivity in twin men. *Psychophysiology*, 42, 753–762.

- Burt, S. A., McGue, M., Krueger, R. F., & Iacono, W. G. (2005). How are parent-child conflict and childhood externalizing symptoms related over time? Results from a genetically informative cross-lagged study. *Development and Psychopathology*, 17, 1–21.
- Conklin, H. M., Curtis, C. E., Calkins, M. E., & Iacono, W. G. (2005). Working memory functioning in schizophrenia patients and their first-degree relatives: Cognitive functioning shedding light on etiology. *Neuropsychologia*, 43, 930–942.
- McGue, M., & Iacono, W. G. (2005). The association of early adolescent problem behavior with adult psychopathology. *American Journal of Psychiatry*, 162, 1118–1124.
- Keel, P. K., Klump, K. L., Miller, K. B., McGue, M., & Iacono, W. G. (2005). Shared transmission of eating disorders and anxiety disorders. *International Journal of Eating Disorders*, 38, 99–105.
- Von Ranson, K. M., Klump, K. L., Iacono, W. G., & McGue, M. (2005). The Minnesota Eating Behavior Survey: A brief measure of disordered eating attitudes and behaviors. *Eating Behaviors*, 6, 373–392.
- Tackett, J. L., Krueger, R. F., Iacono, W. G., & McGue, M. (2005). Symptom-based subfactors of DSM-defined conduct disorder: Evidence for etiologic distinctions. *Journal of Abnormal Psychology*, 114, 483–487.
- Johnson, W., McGue, M., & Iacono, W. G. (2005). Disruptive behavior and school achievement: Genetic and environmental relationships in 11-year olds. *Journal of Educational Psychology*, 97, 391–405.
- Herndon, R. W., McGue, M., Krueger, R. F., & Iacono, W. G. (2005). Genetic and environmental influences on adolescents' perceptions of current family environment. *Behavior Genetics*, 35, 373–380.
- King, S. M., Burt, S. A., Malone, S. M., McGue, M., & Iacono, W. G. (2005). Etiological contributions to heavy drinking from late adolescence to young adulthood. *Journal of Abnormal Psychology*, 114, 587–598.
- McGue, M., Elkins, I., Walden, B., & Iacono, W. G. (2005). Perceptions of the parent-adolescent relationship: A longitudinal investigation. *Developmental Psychology*, 41, 971–984.
- McGue, M., Elkins, I., Walden, B., & Iacono, W. G. (2005). The essential role of behavioral genetics in developmental psychology: Reply to Partridge (2005) and Greenberg (2005). *Developmental Psychology*, 41, 993–997.
- Krueger, R. F., Markon, K. E., Patrick, C. J., & Iacono, W. G. (2005). Externalizing psychopathology in adulthood: Conceptualization and its implications for DSM-V. *Journal of Abnormal Psychology*, 114, 537–550.
- Hur, Y.-M., Luciano, M., Martin, N. G., Boomsma, D. I., Iacono, W. G., McGue, M., et al. (2005). A comparison of twin birthweight data from Australia, the Netherlands, the United States, Japan, and South Korea: Are genetic and environmental variations in birthweight similar in Caucasians and East Asians? *Twin Research & Human Genetics*, 8, 638–648.
- Herndon, R. W., & Iacono, W. G. (2005). Psychiatric disorder in the children of antisocial parents. *Psychological Medicine*, 35, 1815–1824.
- Iacono, W. G., & Lykken, D. T. (2005). The case against polygraph tests. In D. L. Faigman, D. H. Kaye, M. J. Saks, & J. Sanders (Eds.), *Modern scientific evidence: The law and science of expert testimony. Forensics* (2005–2006 ed., Vol. 4, pp. 605–655). St. Paul, MN: West Publishing.
- Burt, S. A., McGue, M., Krueger, R. F., & Iacono, W. G. (2005). Sources of covariation among the child-externalizing disorders: Informant effects and the shared environment. *Psychological Medicine*, 35, 1133–1144.
- Marmorstein, N. R., & Iacono, W. G. (2005). Longitudinal follow-up of adolescents with late-onset antisocial behavior: A pathological yet overlooked group. *Journal of the American Academy of Child and Adolescent Psychiatry*, 44, 1284–1291.

## 2006

- Gogineni, A., King, S., Jackson, K., Kramer, J., Bucholz, K., Chan, G., Iacono, W., et al. (2006). Female offspring of alcoholic individuals: Recent findings on alcoholism and psychopathology risks. *Alcoholism: Clinical and Experimental Research*, 30, 377–387.
- Johnson, W., McGue, M., & Iacono, W. G. (2006). Genetic and environmental influences on academic achievement trajectories during adolescence. *Developmental Psychology*, 42, 514–532.

- Iacono, W. G., & Patrick, C. J. (2006). Polygraph ("lie detector") testing: Current status and emerging trends. In I. B. Weiner & A. K. Hess (Eds.), *The handbook of forensic psychology* (3rd ed, pp. 552–588). Hoboken, NJ: Wiley.
- Iacono, W. G., & Lykken, D. T. (2006). The case against polygraph tests. In D. L. Faigman, D. H. Kaye, M. J. Saks, J. Sanders, & E. K. Cheng (Eds.), *Modern scientific evidence: The law and science of expert testimony* (Vol. 4, pp. 831–895). Eagan, MN: Thomson/West.
- Cukrowicz, K. C., Taylor, J., Schatschneider, C., & Iacono, W. G. (2006). Personality differences in children and adolescents with attention-deficit/hyperactivity disorder, personality disorder, and controls. *Journal of Child Psychology & Psychiatry*, *47*, 151–159.
- MacDonald, A. W. III, & Iacono, W. G. (2006). Toward an integrated perspective on the etiology of psychopathy. In C. J. Patrick (Ed.), *Handbook of psychopathy* (pp. 375–385). New York: Guilford Press.
- King, S. M., & Iacono, W. G. (2006). Twin studies. In N. J. Salkind (Ed.), *Encyclopedia of human development* (Vol. 3, pp. 1280–1283). Thousand Oaks, CA: Sage Publications.
- McGue, M., Iacono, W. G., & Krueger, R. (2006). The association of early adolescent problem behavior and adult psychopathology: A multivariate behavioral genetic perspective. *Behavior Genetics*, *36*, 591–602.
- Elkins, I. J., King, S. M., McGue, M., & Iacono, W. G. (2006). Personality traits and the development of nicotine, alcohol, and illicit drug disorders: Prospective links from adolescence to young adulthood. *Journal of Abnormal Psychology*, *115*, 26–39.
- Blonigen, D. M., Hicks, B. M., Krueger, R. F., Patrick, C. J., & Iacono, W. G. (2006). Continuity and change in psychopathic traits as measured via normal range personality: A longitudinal-biometric study. *Journal of Abnormal Psychology*, *115*, 85–95.
- Burt, S. A., McGue, M., DeMarte, J. A., Krueger, R. F., & Iacono, W. G. (2006). Timing of menarche and the origins of conduct disorder. *Archives of General Psychiatry*, *63*, 890–896.
- Burt, S. A., McGue, M., Iacono, W. G., & Krueger, R. F. (2006). Differential parent-child relationships and adolescent externalizing symptoms: Cross-lagged analyses with a monozygotic twin differences design. *Developmental Psychology*, *42*, 1289–1298.
- Frederick, J. A., & Iacono, W. G. (2006). Beyond the DSM: Defining endophenotypes for genetic studies of substance abuse. *Current Psychiatry Reports*, *8*, 144–150.
- Patrick, C. J., Bernat, E., Malone, S. M., Iacono, W. G., Krueger, R. F., & McGue, M. (2006). P300 amplitude as an indicator of externalizing in adolescent males. *Psychophysiology*, *43*, 84–92.
- Yoon, H. H., Iacono, W. G., Malone, S. M., & McGue, M. (2006). Using the brain P300 response to identify novel phenotypes reflecting genetic vulnerability for adolescent substance misuse. *Addictive Behaviors*, *31*, 1067–1087.
- Carlson, S. R., & Iacono, W. G. (2006). Heritability of P300 amplitude development from adolescence to adulthood. *Psychophysiology*, *43*, 470–480.
- Iacono, W. G., & McGue, M. (2006). Association between P3 event-related potential amplitude and adolescent problem behavior. *Psychophysiology*, *43*, 465–469.
- Blazei, R. W., Iacono, W. G., & Krueger, R. F. (2006). Intergenerational transmission of antisocial behavior: How do kids become antisocial adults? *Applied & Preventive Psychology*, *11*, 230–253.
- Iacono, W. G., McGue, M., & Krueger, R. F. (2006). Minnesota Center for Twin and Family Research. *Twin Research and Human Genetics*, *9*, 978–984.
- Aviyente, S., Bernat, E. M., Malone, S. M., & Iacono, W. G. (2006). Analysis of event related potentials using PCA and matching pursuit on the time frequency plane. *Conference Proceedings IEEE Engineering in Medicine & Biology Society*, *1*, 2454–2457.
- 2007
- Bernat, E. M., Malone, S. M., Williams, W. J., Patrick, C. J., & Iacono, W. G. (2007). Decomposing delta, theta, and alpha time-frequency ERP activity from a visual oddball task using PCA. *International Journal of Psychophysiology*, *64*, 62–74.
- Bierut, L., Cubells, J. F., Iacono, W. G., Li, M. D., Madden, P. A. F., Nelson, E. C., et al. (2007). Genetic research and smoking behavior. *JAMA*, *297*, 809.
- Keyes, M. A., Iacono, W. G., & McGue, M. (2007). Early onset problem behavior, young adult psychopathology, and contextual risk. *Twin Research & Human Genetics*, *10*, 45–53.
- Iacono, W. G. (2007). In memoriam: David Lykken (1928–2006). *APS Observer*, *20*, 23–27, 32.
- Hicks, B. M., Bernat, E., Malone, S. M., Iacono, W. G., Patrick, C. J., Krueger, R. F., et al. (2007). Genes mediate the association between P3 amplitude and externalizing disorders. *Psychophysiology*, *44*, 98–105.
- Iacono, W. G. (2007). Detection of deception. In J. T. Cacioppo, L. G. Tassinary, & G. G. Berntson (Eds.), *Handbook of psychophysiology* (3rd ed, pp. 688–703). New York: Cambridge University Press.
- Walden, B., Iacono, W. G., & McGue, M. (2007). Trajectories of change in adolescent substance use and symptomatology: Impact of paternal and maternal substance use disorders. *Psychology of Addictive Behaviors*, *21*, 35–43.
- McGue, M., Keyes, M., Sharma, A., Elkins, I., Legrand, L., Johnson, W., et al. (2007). The environments of adopted and non-adopted youth: Evidence on range restriction from the Sibling Interaction and Behavior Study (SIBS). *Behavior Genetics*, *37*, 449–462.
- Burt, S. A., McGue, M., Carter, L. A., & Iacono, W. G. (2007). The different origins of stability and change in antisocial personality disorder symptoms. *Psychological Medicine*, *37*, 27–38.
- Taylor, J., & Iacono, W. G. (2007). Personality trait differences in boys and girls with clinical or sub-clinical diagnoses of conduct disorder versus antisocial personality disorder. *Journal of Adolescence*, *30*, 537–547.
- Taylor, J., Elkins, I. J., Legrand, L., Peuschold, D., & Iacono, W. G. (2007). Construct validity of adolescent antisocial personality disorder. *Journal of Youth and Adolescence*, *36*, 1048–1057.
- Burcusa, S. L., & Iacono, W. G. (2007). Risk for recurrence in depression. *Clinical Psychology Review*, *27*, 959–985.
- Johnson, W., Hicks, B. M., McGue, M., & Iacono, W. G. (2007). Most of the girls are alright but some aren't: Personality trajectory groups from ages 14 to 24 and some associations with outcomes. *Journal of Personality and Social Psychology: Personality Processes and Individual Differences*, *93*, 266–284.
- Iacono, W. G. (2007). Polygraph testing. In E. Borgida & S. T. Fiske (Eds.), *Beyond common sense: Psychological science in the courtroom* (pp. 219–235). Oxon, UK: Blackwell.
- Nichol, P. E., Krueger, R. F., & Iacono, W. G. (2007). Investigating gender differences in alcohol problems: A latent trait modeling approach. *Alcoholism: Clinical & Experimental Research*, *31*, 783–794.
- Hicks, B. M., Blonigen, D. M., Kramer, M. D., Krueger, R. F., Patrick, C. J., Iacono, W. G., et al. (2007). Gender differences and developmental change in externalizing disorders from late adolescence to early adulthood: A longitudinal twin study. *Journal of Abnormal Psychology*, *116*, 433–447.
- Iacono, W. G. (2007). In memoriam: David T. Lykken (1928–2006). *Psychophysiology*, *44*, 181–182.
- Iacono, W. G. (2007). David T. Lykken (1928–2006). *American Psychologist*, *62*, 319.
- Carlson, S. R., McLarnon, M. E., & Iacono, W. G. (2007). P300 amplitude, externalizing psychopathology, and earlier versus later onset substance use disorder. *Journal of Abnormal Psychology*, *116*, 565–577.
- Burt, S. A., McGue, M., Krueger, R. F., & Iacono, W. G. (2007). Environmental contributions to adolescent delinquency: A fresh look at the shared environment. *Journal of Abnormal Child Psychology*, *35*, 787–800.
- Klump, K. L., Perkins, P. S., Burt, S. A., McGue, M., & Iacono, W. G. (2007). Puberty moderates genetic influences on disordered eating. *Psychological Medicine*, *37*, 627–634.
- Loney, B. R., Taylor, J., Butler, M. A., & Iacono, W. G. (2007). Adolescent psychopathy features: 6-year temporal stability and the prediction of externalizing symptoms during the transition to adulthood. *Aggressive Behavior*, *33*, 242–252.
- Klump, K. L., Burt, S. A., McGue, M., & Iacono, W. G. (2007). Changes in genetic and environmental influences on disordered eating across adolescence: A longitudinal twin study. *Archives of General Psychiatry*, *64*, 1409–1415.
- Elkins, I. J., McGue, M., & Iacono, W. G. (2007). Prospective effects of attention deficit hyperactivity disorder, conduct disorder, and gender on adolescent substance use and abuse. *Archives of General Psychiatry*, *64*, 1145–1152.
- Irons, D. E., McGue, M., Iacono, W. G., & Oetting, W. S. (2007). Mendelian randomization: A novel test of the gateway hypothesis and

- models of gene-environment interplay. *Development & Psychopathology*, *19*, 1181–1195.
- 2008
- Iacono, W. G. (2008). Bad genes, bad behavior? In J. S. Nevid, S. A. Rathus, & B. A. Greene (Eds.), *Abnormal psychology in a changing world* (7th ed, p. 460). Upper Saddle River, NJ: Pearson.
- Marmorstein, N. R., & Iacono, W. G. (2008). Diagnostic issues. In M. Hersen & J. Rosqvist (Eds.), *Handbook of assessment, conceptualization, and treatment* (pp. 26–47). Hoboken, NJ: Wiley & Sons.
- Legrand, L. N., Keyes, M., McGue, M., Iacono, W. G., & Krueger, R. F. (2008). Rural environments reduce the genetic influence on adolescent substance use and rule-breaking behavior. *Psychological Medicine*, *19*, 1181–1195.
- Iacono, W. G. (2008). The forensic application of “brain fingerprinting:” Why scientists should encourage the use of P300 memory detection methods. *American Journal of Bioethics*, *8*, 30–32.
- McGue, M., & Iacono, W. G. (2008). The adolescent origins of substance use disorders. *International Journal of Methods in Psychiatric Research*, *17*, S30–S38.
- Blonigen, D. M., Carlson, M. D., Hicks, B. M., Krueger, R. F., & Iacono, W. G. (2008). Stability and change in personality traits from late adolescence to early adulthood: A longitudinal twin study. *Journal of Personality*, *76*, 229–266.
- Marmorstein, N. R., von Ranson, K. M., Iacono, W. G., & Malone, S. M. (2008). Prospective associations between depressive symptoms and eating disorder symptoms among adolescent girls. *International Journal of Eating Disorders*, *41*, 118–123.
- Koenig, L., McGue, M., & Iacono, W. G. (2008). Stability and change in religiousness during emerging adulthood. *Developmental Psychology*, *44*, 532–543.
- Keyes, M. A., Sharma, A., Elkins, I. J., Iacono, W. G., & McGue, M. (2008). The mental health of adolescents adopted in infancy. *Archives of Pediatrics & Adolescent Medicine*, *162*, 419–425.
- Blazei, R. W., Iacono, W. G., & McGue, M. (2008). Father-child transmission of antisocial behavior: The moderating role of father's presence in the home. *Journal of the American Academy of Child and Adolescent Psychiatry*, *47*, 406–415.
- Boutros, N. N., Arfken, C., Galderisi, S., Warrick, J., Pratt, G., & Iacono, W. G. (2008). The status of spectral EEG abnormality as a diagnostic test for schizophrenia. *Schizophrenia Research*, *99*, 225–237.
- Iacono, W. G., Malone, S. M., & McGue, M. (2008). Behavioral disinhibition and the development of early-onset addiction: Common and specific influences. *Annual Review of Clinical Psychology*, *4*, 325–348.
- Iacono, W. G. (2008). Effective policing: Understanding how polygraph tests work and are used. *Criminal Justice & Behavior*, *35*, 1295–1308.
- Hicks, B. M., Johnson, W., Iacono, W. G., & McGue, M. (2008). Moderating effects of personality on the genetic and environmental influences of school grades helps to explain sex differences in scholastic achievement. *European Journal of Personality*, *22*, 247–268.
- South, S. C., Krueger, R. F., Johnson, W., & Iacono, W. G. (2008). Adolescent personality moderates genetic and environmental influences on relationships with parents. *Journal of Personality and Social Psychology*, *94*, 899–912.
- Krueger, R. F., South, S., Johnson, W., & Iacono, W. G. (2008). The heritability of personality is not always 50%: Gene-environment interactions and correlations between personality and parenting. *Journal of Personality*, *76*, 1486–1521.
- Iacono, W. G. (2008). Accuracy of polygraph techniques: Problems using confessions to determine ground truth. *Physiology & Behavior*, *95*, 24–26.
- Marmorstein, N. R., Iacono, W. G., & Markey, C. N. (2008). Parental psychopathology and migraine headaches among adolescents. *Cephalalgia*, *29*, 38–47.
- Tully, E. C., Iacono, W. G., & McGue, M. (2008). An adoption study of parental depression as an environmental liability for adolescent depression and childhood disruptive disorders. *American Journal of Psychiatry*, *165*, 1148–1154.
- Keyes, M., Legrand, L. N., Iacono, W. G., & McGue, M. (2008). Parent smoking and adolescent problem behavior: An adoption study of general and specific effects. *American Journal of Psychiatry*, *165*, 1338–1344.
- Iacono, S. C., & Iacono, W. G. (2008). Anorexia nervosa. In P. Korsmeyer & H. Kranzler (Eds.), *Encyclopedia of drugs, alcohol, and addictive behavior* (3rd ed., (Vol. 1, p. 170–171). Farmington Hills, MI: Macmillan.
- Iacono, S. C., & Iacono, W. G. (2008). Bulimia nervosa. In P. Korsmeyer & H. Kranzler (Eds.), *Encyclopedia of drugs, alcohol, and addictive behavior* (3rd ed., (Vol. 1, 254–255). Farmington Hills, MI: Macmillan.
- Bemmels, H. R., Burt, S. A., Legrand, L. N., Iacono, W. G., & McGue, M. (2008). The heritability of life events: An adolescent twin and adoption study. *Twin Research and Human Genetics*, *11*, 257–265.
- Carlson, S. R., & Iacono, W. G. (2008). Deviant P300 amplitude development in males is associated with paternal externalizing psychopathology. *Journal of Abnormal Psychology*, *117*, 910–923.
- Iacono, W. G., & Patrick, C. J. (2008). Assessing deception: Polygraph techniques and integrity testing. In R. Rogers (Ed.), *Clinical assessment of malingering and deception* (3rd ed, pp. 255–273). New York: Guilford.
- Tackett, J. L., Krueger, R. F., Iacono, W. G., & McGue, M. (2008). Personality in middle childhood: A hierarchical structure and longitudinal connections with personality in late adolescence. *Journal of Research in Personality*, *42*, 1456–1462.
- Burt, S. A., Barnes, A. R., McGue, M., & Iacono, W. G. (2008). Parental divorce and adolescent delinquency: Ruling out the impact of common genes. *Developmental Psychology*, *44*, 1668–1677.
- Hur, Y.-M., Kaprio, J., Iacono, W. G., Boomsma, D. I., McGue, M., Silventoinen, K., et al. (2008). Genetic influences on the difference in variability of height, weight, and body mass index between Caucasian and East Asian adolescent twins. *International Journal of Obesity*, *32*, 1455–1467.
- Yoon, H. H., Iacono, W. G., Malone, S. M., Bernat, E. M., & McGue, M. (2008). The effects of childhood disruptive disorder comorbidity on P3 event-related brain potentials in preadolescents with ADHD. *Biological Psychology*, *79*, 329–336.
- Calkins, M. E., Iacono, W. G., & Ones, D. S. (2008). Eye movement dysfunction in first-degree relatives of patients with schizophrenia: A meta-analytic evaluation of candidate endophenotypes. *Brain & Cognition*, *62*, 436–461.
- Disney, E. R., Iacono, W., McGue, M., Tully, E., & Legrand, L. (2008). Strengthening the case: Prenatal alcohol exposure is associated with increased risk for conduct disorder. *Pediatrics*, *122*, e1225–e1230. DOI: 10.1542/peds.2008-1380.
- Derringer, J., Krueger, R. F., McGue, M., & Iacono, W. G. (2008). Genetic and environmental contributions to the diversity of substances used in adolescent twins: A longitudinal study of sex and age effects. *Addiction*, *103*, 1744–1751.
- 2009
- McGue, M., & Iacono, W. G. (2009). Siblings and the socialization of adolescent deviance: An adoption study approach. In K. McCartney & R. Weinberg (Eds.), *Experience and development: A festschrift to honor Sandra W. Scarr* (pp. 179–201). London, UK: Taylor & Francis.
- Neiss, M. B., Stevenson, J., Legrand, L., Iacono, W. G., & Sedikides, C. (2009). Self-esteem, negative emotionality, and depression as a common temperamental core: A study of mid-adolescent twin girls. *Journal of Personality*, *77*, 327–346.
- Boutros, N. N., Iacono, W. G., & Galderisi, S. (2009). Applied electrophysiology. In B. J. Sadock, V. A. Sadock, & P. Ruiz (Eds.), *Kaplan & Sadock's comprehensive textbook of psychiatry* (9th ed, pp. 211–247). Baltimore, MD: Lippincott, Williams, & Wilkins.
- Marmorstein, N. R., Iacono, W. G., & McGue, M. (2009). Alcohol and illicit drug dependence among parents: Associations with offspring externalizing. *Psychological Medicine*, *39*, 149–155.
- Rueter, M. A., Keyes, M. A., Iacono, W. G., & McGue, M. (2009). Family interactions in adoptive compared to non-adoptive families. *Journal of Family Psychology*, *23*, 58–66.
- Hicks, B. M., South, S. C., DiRago, A. C., Iacono, W. G., & McGue, M. (2009). Environmental adversity and increasing genetic risk for externalizing disorders. *Archives of General Psychiatry*, *66*, 640–648.
- Eaton, N. R., Krueger, R. F., Johnson, W., McGue, M., & Iacono, W. G. (2009). Parental monitoring, personality, and delinquency: Further support for a reconceptualization of monitoring. *Journal of Research in Personality*, *43*, 49–59.

- King, S. M., Keyes, M., Malone, S. M., Elkins, I., Legrand, L., Iacono, W. G., et al. (2009). Parental alcohol dependence and the transmission of adolescent behavioral disinhibition: A study of adoptive and non-adoptive families. *Addiction, 104*, 578–586.
- Johnson, W., Hicks, B. M., McGue, M., & Iacono, W. G. (2009). How intelligence and education contribute to substance use: Hints from the Minnesota Twin Family Study. *Intelligence*, in press.
- Perlman, G., Johnson, W., & Iacono, W. G. (2009). The heritability of P300 amplitude in 18-year olds is robust to adolescent alcohol use. *Psychophysiology, 46*, 962–969.
- Hicks, B. M., DiRago, A. C., Iacono, W. G., & McGue, M. (2009). Gene-environment interplay in internalizing disorders: Consistent findings across six environmental risk factors. *Journal of Clinical Psychology and Psychiatry, 50*, 1309–1317.
- Haworth, C. M. A., Wright, M. J., Luciano, M., Martin, N. G., de Geus, E. J. C., van Beijsterveldt, C. E. M., et al. (2009). The heritability of general cognitive ability increases linearly from childhood to young adulthood. *Molecular Psychiatry, 39*, 359–370.
- Johnson, W., McGue, M., & Iacono, W. G. (2009). School performance and genetic and environmental variance in antisocial behavior at the transition from adolescence to adulthood. *Developmental Psychology, 45*, 973–987.
- Burt, S. A., McGue, M., & Iacono, W. G. (2009). Nonshared environmental mediation of the association between deviant peer affiliation and adolescent externalizing behaviors over time: Results from a cross-lagged monozygotic twin differences design. *Developmental Psychology, 45*, 1752–1760.
- Johnson, W. J., Dreary, I. J., & Iacono, W. G. (2009). Genetic and environmental transactions underlying educational attainment. *Intelligence, 37*, 466–478.
- Haworth, C. M. A., Wright, M. J., Martin, N. W., Martin, N. G., Boomsma, D. I., Bartels, M., et al. (2009). The heritability of general cognitive ability increases linearly from childhood to young adulthood. *Molecular Psychiatry*. DOI: 10.1038/mp.2009.55.
- Haworth, C. M. A., Wright, M. J., Martin, N. W., Martin, N. G., Boomsma, D. I., Bartels, M., et al. (2009). A twin study of the genetics of high cognitive ability selected from 11,000 twin pairs in six studies from four countries. *Behavior Genetics, 39*, 359–370.
- Kirkpatrick, R. M., McGue, M., & Iacono, W. G. (2009). Shared-environmental contributions to high cognitive ability. *Behavior Genetics, 39*, 406–416.
- Koenig, L. B., McGue, M., & Iacono, W. G. (2009). Rearing environmental influences on religiosity: An investigation of adolescent adoptees. *Personality & Individual Differences, 47*, 652–656.
- Iacono, W. G. (2009). Lie detection. In I. B. Weiner & W. E. Craighead (Eds.), *Corsini's Encyclopedia of Psychology* (4th ed). Hoboken, NJ: John Wiley & Sons.
- Buchanan, J. P., McGue, M., Keyes, M., & Iacono, W. G. (2009). Are there shared environmental influences on adolescent behavior? Evidence from a study of adoptive siblings. *Behavior Genetics, 39*, 532–540.
- South, S. C., Krueger, R. F., & Iacono, W. G. (2009). Factorial invariance of the dyadic adjustment scale across gender. *Psychological Assessment, 21*, 622–628.
- Keyes, M. A., Malone, S. M., Elkins, I. J., Legrand, L. N., McGue, M., & Iacono, W. G. (2009). The enrichment study of the Minnesota Twin Family Study: Increasing the yield of twin families at high risk for externalizing psychopathology. *Twin Research, 12*, 489–501.
- Bornovalova, M. A., Hicks, B. M., Iacono, W. G., & McGue, M. (2009). Stability, change, and heritability of borderline personality disorder traits from adolescence to adulthood: A longitudinal twin study. *Development & Psychopathology, 21*, 1335–1353.

## 2010

- Gilmore, C. S., Malone, S. M., Bernat, E. M., & Iacono, W. G. (2009). Relationship between P3 event-related potential, its underlying timefrequency components, and externalizing psychopathology. *Psychophysiology, 47*, 123–132.
- Malone, S. M., McGue, M., & Iacono, W. G. (in press). Mother's maximum drinks ever consumed in 24 hours predicts mental health problems in adolescent offspring. *Journal of Child Psychology & Psychiatry*, in press.
- Marmorstein, N. M., Iacono, W. G., & Malone, S. M. (in press). Longitudinal associations between depression and substance dependence from adolescence through early adulthood. *Drug & Alcohol Dependence*, in press.
- Klump, K. L., Burt, S. A., Spanos, A., McGue, M., Iacono, W. G., & Wade, T. D. (in press). Age differences in genetic and environmental influences on weight and shape concerns. *International Journal of Eating Disorders*, in press.
- Humbad, M. N., Donnellan, M. B., Iacono, W. G., & Burt, S. A. (in press). Externalizing psychopathology and marital adjustment in long-term marriages: Results from a large combined sample of married couples. *Journal of Abnormal Psychology*, in press.
- Johnson, W., McGue, M., & Iacono, W. G. (in press). School performance and genetic and environmental variance in antisocial behavior at the transition from adolescence to adulthood. *Developmental Psychology*, in press.
- Forbush, K. T., South, S. C., Krueger, R. F., Iacono, W. G., Clark, L. A., Keel, P. K., Legrand, L., & Watson, D. (in press). Locating eating pathology within an empirical diagnostic taxonomy: Evidence from a community based sample. *Journal of Abnormal Psychology*, in press.
- Tully, E. C., & Iacono, W. G. (in press). An integrative common liabilities model for the comorbidity of substance use disorders with externalizing and internalizing disorders. In K. Sher (Ed.), *Oxford handbook of substance use disorders*. New York: Oxford University Press.
- Derringer, J., Krueger, R. F., Iacono, W. G., & McGue, M. (in press). Modeling the impact of age and sex on a dimension of poly-substance use in adolescence: A longitudinal study from 11 to 17 year olds. *Drug & Alcohol Dependence*, in press.
- Gilmore, C. S., Malone, S. M., & Iacono, W. G. (in press). Brain electrophysiological endophenotypes for externalizing psychopathology: A multivariate approach. *Behavior Genetics*, in press.