FUNDING AND DISCLOSURE

Dr. Sakurai has received manuscript or speaker's honoraria from Dainippon Sumitomo, Eli Lilly, Meiji-Seika Pharma, Otsuka Pharmaceutical, Tanabe Mitsubishi Pharma, and Yoshitomi Yakuhin within the past three years. Dr. Sakurai also receives grants from the Japanese Society of Clinical Neuropsychopharmacology and the Uehara Memorial Foundation.

Dr. Jain has nothing to declare.

- Dr. Foster has nothing to declare.
- Dr. Pedrelli has nothing to declare.

Dr Mischoulon has received research support from Nordic Naturals. He has provided unpaid consulting for Pharmavite LLC and Gnosis USA, Inc. He has Table 2 Association between clinical variables and nonresponse. β Odds ratio 95% CI P value Age 0.001 1.001 0.956-1.049 0.953 Female sex 1.270 3.562 0.739-17.170 0.113 Unemployment 0.043 1.044 0.181-6.006 0.961 Primary diagnosis BD 0.210 1.234 0.096-15.869 0.872 Psychiatric comorbidity -1.015 0.363 0.067-1.956 0.238 Duration of current episode -0.058 0.944 0.893-0.997 0.040 Prior suicide attempt -1.355 0.258 0.057-1.168 0.079 History of hospitalization -0.543 0.581 0.112-3.003 0.517 Number of failed antidepressant trials -0.004 0.996 0.818-1.211 0.966 History of ECT 0.893 2.443 0.359-16.638 0.361 QIDS-SR16 at baseline 0.077 1.080 0.943-1.237 0.266 BD, bipolar disorder; CI, confidence interval; ECT, electroconvulsive therapy; QIDS-SR16, 16-Item Quick Inventory of Depressive Symptomatology, Self-Reported H. Sakurai, et al. Journal of Affective Disorders 276 (2020) 660–666 664 received honoraria for speaking from the Massachusetts General Hospital Psychiatry Academy, Blackmores, Harvard Blog, and PeerPoint Medical Education Institute, LLC. He has received royalties from Lippincott Williams & Wilkins for published book "Natural Medications for Psychiatric Disorders: Considering the Alternatives."

Dr. Fava reports 3-year disclosures as follows. All disclosures can be view on line at: http://mghcme.org/faculty/faculty-detail/maurizio fava. Research Support: Abbott Laboratories; Acadia Pharmaceuticals; Alkermes, Inc.; American Cyanamid; Aspect Medical Systems; AstraZeneca; Avanir Pharmaceuticals; AXSOME Therapeutics; Biohaven; BioResearch; BrainCells Inc.; Bristol-Myers Squibb; CeNeRx BioPharma; Cephalon; Cerecor; Clarus Funds; Clexio Biosciences; Clintara, LLC; Covance; Covidien; Eli Lilly and Company;EnVivo Pharmaceuticals, Inc.; Euthymics Bioscience, Inc.; Forest Pharmaceuticals, Inc.; FORUM Pharmaceuticals; Ganeden Biotech, Inc.; GlaxoSmithKline; Harvard Clinical Research Institute; Hoffman-LaRoche; Icon Clinical Research; Indivior; i3 Innovus/Ingenix; Janssen R&D, LLC; Jed Foundation; Johnson & Johnson Pharmaceutical Research & Development; Lichtwer Pharma GmbH; Lorex Pharmaceuticals; Lundbeck Inc.; Marinus Pharmaceuticals; MedAvante; Methylation Sciences Inc; National Alliance for Research on Schizophrenia & Depression (NARSAD); National Center for Complementary and Alternative Medicine (NCCAM); National Coordinating Center for Integrated Medicine (NiiCM); National Institute of Drug Abuse (NIDA); National Institute of Mental Health (NIMH); Neuralstem, Inc.; NeuroRx; Novartis AG; Organon Pharmaceuticals; Otsuka Pharmaceutical Development, Inc.; PamLab, LLC.; Pfizer Inc.; Pharmacia-Upjohn; Pharmaceutical Research Associates., Inc.; Pharmavite[®] LLC; PharmoRx Therapeutics; Photothera; Reckitt Benckiser; Roche Pharmaceuticals; RCT Logic, LLC (formerly Clinical Trials Solutions, LLC); Sanofi-Aventis US LLC; Shenox Pharmaceuticals, LLC; Shire; Solvay Pharmaceuticals, Inc.; Stanley Medical Research Institute (SMRI); Synthelabo; Taisho Pharmaceuticals; Takeda Pharmaceuticals; Tal Medical; VistaGen; WyethAyerst Laboratories, Advisory Board/ Consultant: Abbott Laboratories; Acadia; Affectis Pharmaceuticals AG; Alfasigma USA, Inc.; Alkermes, Inc.; Amarin Pharma Inc.; Amorsa Therapeutics, Inc.; Aptinyx Inc.; Aspect Medical Systems; AstraZeneca; Auspex Pharmaceuticals; Avanir Pharmaceuticals; AXSOME Therapeutics; Bayer AG; Best Practice Project Management, Inc.; Biogen; BioMarin Pharmaceuticals, Inc.; BioXcel Therapeutics; Biovail Corporation; Boehringer Ingelheim; Boston Pharmaceuticals; BrainCells Inc; BristolMyers Squibb; CeNeRx BioPharma; Cephalon, Inc.; Cerecor; Clexio Biosciences; Click Therapeutics, Inc; CNS Response, Inc.; Compellis Pharmaceuticals; Cypress Pharmaceutical, Inc.; DiagnoSearch Life Sciences (P) Ltd.; Dainippon Sumitomo Pharma Co. Inc.; Dov Pharmaceuticals, Inc.; Edgemont Pharmaceuticals, Inc.; Eisai Inc.; Eli Lilly and Company; ElMindA; EnVivo Pharmaceuticals, Inc.; Enzymotec LTD; ePharmaSolutions; EPIX Pharmaceuticals, Inc.; Esthismos Research, Inc.; Euthymics Bioscience, Inc.; Evecxia Therapeutics, Inc.; ExpertConnect, LLC; FAAH Research Inc.; Fabre-Kramer Pharmaceuticals, Inc.; Forest Pharmaceuticals, Inc.; Forum Pharmaceuticals; GenOmind, LLC; GlaxoSmithKline; Grunenthal GmbH; H. Lundbeck A/S; Indivior; i3 Innovus/Ingenis; Intracellular; Janssen Pharmaceutica; Jazz Pharmaceuticals, Inc.; JDS Therapeutics, LLC; Johnson & Johnson Pharmaceutical Research & Development, LLC; Knoll Pharmaceuticals Corp.; Labopharm Inc.; Lorex Pharmaceuticals; Lundbeck Inc.; Marinus Pharmaceuticals; MedAvante, Inc.; Merck & Co., Inc.; MSI Methylation Sciences, Inc.; Naurex, Inc.; Navitor Pharmaceuticals, Inc.; Nestle Health Sciences; Neuralstem, Inc.; Neurocrine Biosciences, Inc.; Neuronetics, Inc.; NextWave Pharmaceuticals; Niraxx Light Therapeutics, Inc; Northwestern University; Novartis AG; Nutrition 21; Opiant Pharmecuticals; Orexigen Therapeutics, Inc.; Organon Pharmaceuticals; Osmotica; Otsuka Pharmaceuticals; Ovid Therapeutics, Inc.; Pamlab, LLC.; Perception Neuroscience; Pfizer Inc.; PharmaStar; Pharmavite® LLC.; PharmoRx Therapeutics; Polaris Partners; Praxis Precision Medicines; Precision Human Biolaboratory; Prexa Pharmaceuticals, Inc.; PPD; PThera, LLC; Purdue Pharma; Puretech Ventures; PsychoGenics; Psylin Neurosciences, Inc.; RCT Logic, LLC (formerly Clinical Trials Solutions, LLC); Relmada Therapeutics, Inc.; Rexahn Pharmaceuticals, Inc.; Ridge Diagnostics, Inc.; Roche; Sanofi-Aventis US LLC.; Sentier Therapeutics; Sepracor Inc.; Servier Laboratories; Schering-Plough Corporation; Shenox Pharmaceuticals, LLC; Solvay Pharmaceuticals, Inc.; Somaxon Pharmaceuticals, Inc.; Somerset Pharmaceuticals, Inc.; Sonde Health; Sunovion Pharmaceuticals; Supernus Pharmaceuticals, Inc.; Synthelabo; Taisho Pharmaceuticals; Takeda Pharmaceutical Company Limited; Tal Medical, Inc.; Tetragenex; Teva Pharmaceuticals; TransForm Pharmaceuticals, Inc.; Transcept Pharmaceuticals, Inc.; Usona Institute, Inc.; Vanda Pharmaceuticals, Inc.; Versant Venture Management, LLC; VistaGen, Speaking/Publishing: Adamed, Co; Advanced Meeting Partners; American Psychiatric Association; American Society of Clinical Psychopharmacology; AstraZeneca; Belvoir Media Group; Boehringer Ingelheim GmbH; Bristol-Myers Squibb; Cephalon, Inc.; CME Institute/Physicians Postgraduate Press, Inc.; Eli Lilly and Company; Forest Pharmaceuticals, Inc.; GlaxoSmithKline; Imedex, LLC; MGH Psychiatry Academy/Primedia; MGH Psychiatry Academy/Reed Elsevier; Novartis AG; Organon Pharmaceuticals; Pfizer Inc.; PharmaStar; United BioSource,Corp.; Wyeth-Ayerst Laboratories, Stock/Other Financial Options: Equity Holdings: Psy Therapeutics, Royalty/patent, other income: Patents for Sequential Parallel Comparison Design (SPCD), licensed by MGH to Pharmaceutical Product Development, LLC (PPD) (US 7840419, US 7647235, US 7983936, US 8145504, US 8145505); and patent application for a combination of Ketamine plus Scopolamine in Major Depressive Disorder (MDD), licensed by MGH to Biohaven. Patents for pharmacogenomics of Depression Treatment with Folate (US 9546401, US 9540691). Copyright for the MGH Cognitive & Physical Functioning Questionnaire (CPFQ), Sexual Functioning Inventory (SFI), Antidepressant Treatment Response Questionnaire (ATRQ), Discontinuation-Emergent Signs & Symptoms (DESS),

Symptoms of Depression Questionnaire (SDQ), and SAFER; Lippincott, Williams & Wilkins; Wolkers Kluwer; World Scientific Publishing Co. Pte.Ltd.

Dr. Cusin has received speaking and consulting fees from Janssen, Takeda, Boehringer, Alkermes. – Equity: None. –Royalty/patent: PCT/US15/ 56192; 070919.00032 Acyclic cucurbit[N]uril type molecular containers to treat intoxication and substance abuse.

Contribution of authors

Hitoshi Sakurai: Statistical analysis, interpretation of data, and writing first draft of the article.

Felipe Jain: Interpretation of data and co-writing of article.

Simmie Foster: Interpretation of data and co-writing of article.

Paola Pedrelli: Interpretation of data and co-writing of article.

David Mischoulon: Interpretation of data and co-writing of article.

Maurizio Fava: Interpretation of data and co-writing of article.

Cristina Cusin: Study design, PI of current report, interpretation of data and co-writing of article.

Role of Funding

None.

Acknowledgments

None.

Previous presentation

None.