Understanding Brain Development: How Brain Circuits and Maturation Explain Behavior

One:
- Live Webcast with CE Credit: Friday, April 7, 2017
- On-Demand Webcast with CE Credit: April 12, 2017 – May 12, 2017
- Purchase of Recordings with Home Study CE Credit: through March 23, 2020
  - 4 Audio CDs
  - 4 Audio-Visual DVDs
- Purchase of Recordings without CE Credit:
  - 4 Audio CDs, $50
  - 4 Audio-Visual DVDs, $75
- Tuition is in U.S. dollars.
- On-Site Registration (if space is available)
- Four Ways To Register:
  1. Internet: www.ibpceu.com
  2. Mail: PO Box 2238, Los Banos, CA 93635 (make check payable to IBP)
  3. Fax: (866) 517-5220
  4. Phone: (866) 652-7414 (open 24 hours a day, 7 days a week)

Purchase orders are accepted. IBP tax identification number: 77-0026830

Type of Credit Card: [ ] Visa [ ] MasterCard [ ] AmEx [ ] Discover
Card # ___________________________ Exp Date ____________

Signature

NURSES: Institute for Brain Potential (IBP) is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation. IBP is accredited as an approved provider of continuing nursing education (APN) by the California Board of Registered Nursing, Provider #CEP13086, and Florida Board of Nursing. This program provides 6 contact hours.

PHARMACISTS & PHARMACY TECHNICIANS: IBP is accredited as an approved provider of continuing education by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. The live webinar is a knowledge-based activity with UANs 0492-0000-17-019-LF4 and 0492-0000-17-019-LF4. The on-demand webinar and home study CDs/DVDs are knowledge-based activities with UANs 0492-0000-17-020-8H4-F and 0492-0000-17-020-8H4-T. Initial Release Date: 02/23/2017. Planned Expiration Date: 02/22/2020. This program provides 6 hours of CE credit. Subject Code: 557. Initial Releasing Date: 02/23/2017. Planned Expiration Date: 02/22/2020.

IBP, provider RD-2461, is authorized to confer continuing dental education for Dentists, Dental Hygienists and Dentists by the Dental Board of California. IBP is an approved provider with the Florida Board of Dentistry. This program is 6 CE hours.

PHYSICAL THERAPISTS: This program is approved by IBP – an approved accredited provider of the physical therapy continuing education by the Physical Therapy Board of California. IBP is an Illinois Department of Professional Regulation Approved CE Sponsor for Physiotherapists and Occupational Therapists Provider #2161.0020. The program is recognized by the New York State Education Department’s State Board of Physical Therapy as an approved provider of physical therapy continuing education. IBP is pending approval by the TX chapter of the American Physical Therapy Association (APTA). This program provides 6 CE hours.

The physical therapy boards in AZ, AK, DE, GA, ID, IN, KS, KY, MS, MO, NC, ND, RI, SC, OR, TN, UT, WA, WI, and WY accept courses approved by APTA chapters. This course meets the criteria for 6 contact hours of physical therapy continuing education in CT, IA, MO, MT, NE, NH, OK, and WA.

MASSAGE THERAPISTS: IBP is accredited as an approved provider by the Illinois Department of Professional Regulation, 2245.00004, and by the Florida Board of Massage Therapy. This program provides 6 CE hours. This program is approved for General CE in Florida. This program is approved as an On-Demand Webcast and Live Webcast.

SPEECH-LANGUAGE PATHOLOGISTS: IBP is an approved provider by the California Speech-Language Pathology and Audiology Board (SLPA), J 095247, and by the Florida Board of Speech-Language Pathology and Audiology. CE credit for SLPA in Florida is based on 60-minute webcasts and live webcasts of the program. This program provides 6 CE hours.

DENTAL HYGIENISTS: IBP is an approved Continuing Professional Education (CPE) Accredited Provider with the Commission on Dental Education (CODR) (CER). Registered dentists (RDHs) and dental technicians, registered (DTs) will receive 6 continuing professional education units (CPEUs) for completion of this program. Continuing Professional Education Accredited Providers can now constitute endorsement by CER of a provider, or programs, or materials. Provider Number: 010015. Source: Commission on Dental Education. Suggestive Learning: 600. CODR-approved credit is available for only the live webcast of the program.

RESPRATORY CARE PROFESSIONALS: RCPS in New York receive 6 hours of Category III credit for live webcast and live webcast stream. RCPS in New York receive 6 hours of Category II credit for live webcast. IBP is accredited by the California Board of Registered Nursing (CA BRN), Provider CEP13086, to provide continuing education. For RNs in CA, BRN approved providers of CE for RNs are accepted by the Respiratory Board of California (RBC).

EDUCATORS: Participants completing this program will receive 7.5 clock hours of professional development credit through the American Nurses Credentialing Center’s Commission on Accreditation (ACN). IBP is approved by the California Board of Registered Nursing (CA BRN). Provider CEP13086, to provide continuing education. For RNs in CA, BRN approved providers of CE for RNs are accepted by the Respiratory Board of California (RBC).

Institute for Brain Potential: We are the leading provider of accredited programs on the brain and behavioral sciences. Our non-profit organization (tax ID 77-0026830) has presented cost-effective, informative and practical seminars by outstanding speakers since 1984.
FREQUENTLY ASKED QUESTIONS

Q: Is there a way to enjoy this seminar without being at my computer for 6 hours? What if I am not free on April 7, the date of the broadcast?

Yes! First, register for the program. You will receive a link to view the program starting April 12 until May 12. The program will be divided into four segments of approximately 75 minutes for user-friendly viewing.

Q: What if I have technical issues getting and staying connected, difficulty seeing the slides, or hearing the speaker?

We have an expert videographer to capture the sound and slides. We will make copies of the outline available to the participants. Further, in the unlikely event that you have connection problems, IBP will provide registrants with a free set of 4 CDs or DVDs of the entire program.

Q: I’d like to view the program and receive credit but without watching the live program or downloading it and still receive continuing education credit. Can I do this?

Yes! The cost of the DVD or CD set will be the same as the cost of the live program. Register now, let the operator know you will want the CD or DVD set (specify which), and make sure your profession is included in our online brochure.

Q: Can I attend this program live?

Yes, but only if you live in a city where IBP is currently presenting this seminar.

Q: My profession is not included on the brochure. Can I receive continuing education credit?

Maybe. Please contact our customer service at (888) 202-2938.

Q: How long does it usually take to receive a certificate of completion?

Typically, within 3 or 4 business days.

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Development of Cognitive Abilities

- **Learning and Memory:** working memory, short-term memory and long-term memory for events, names, places and concepts; effects of sleep and types of practice—what happens when the two cerebral hemispheres are disconnected?
- **Language:** how the hemisphere dominant for language is organized including the temporal lobes (lateralized aspects of listening, remembering and comprehending, and articulating) and parietal lobes (reading, writing, calculating).
- **Non-Verbal Abilities:** role in recognizing voices, faces, music, art, and reasoning that does not rely on words.

Brain Circuits and Early Childhood Development

- **What Makes Us Human?** Brain size, circuits, intelligence that enable tool use, language, and imagining the future.
- **The Developing Brain:** stages of development, migration, differentiation, maturation, development and the pruning of dysfunctional nerve cells.
- **Steroid Hormones and Brain Circuits:** male- and female typical behaviors and sexual differentiation, critical and sensitive periods.
- **Stages of Early Cognitive Development:** Piaget's theory, growth spurts, problem solving abilities, development of intelligence.
- **Development of Impulse Control:** overcoming the need for immediate gratification, reward expectation, the D1 and D2 dopamine circuits, and overcoming automatic fear-based or reward-based impulses.

Developmental Disorders

- **Autism Spectrum Disorders:** definitions, signs and symptoms, developmental trajectory, diagnosis, genetic risk factors, increased recent prevalence, treatments and therapies.
- **Attention-Deficit-Hyperactivity Disorder:** definitions, signs and symptoms, different classifications e.g. inattentive vs. impulsive/hyperactive, genetic and environmental risk factors, treatments and therapies.
- **Schizophrenia Spectrum:** definitions, signs and symptoms, different classifications, genetic vs. environmental risk factors, psychosocial factors, treatments and therapies, altered brain chemistry, dual hit hypothesis.
- **Mood Disorders:** diagnosis and prediction of self-harm; how severe maltreatment in childhood can the serotonin receptors and response to stress, not only in the person but in the individuals’ children.
- **Generalized Anxiety and PTSD:** pediatric and childhood stress and the development generalized anxiety; trauma, short-term memory and PTSD.

Environmental Effects on Brain Development

- **Stress Experienced by One’s Parents:** how this can modify the developing brain; understanding epigenetics.
- **Impact of Early Life Events:** role of maternal care on stress response during early life, fragmentation and unpredictability, role of cortisol, epigenetic programming of emotional and reward circuits; developing resilience and stress vulnerability.
- **Environmental Effects on Brain Plasticity:** Impact of enriched vs. impoverished environments, cognitive training, physical exercise and neurogenesis, the rebirth of neurons to protect the developing and adult brain.
- **Adult Outcomes of Early Life Events:** how early life stress increases risk of adult psychopathology including vulnerability to PTSD in civilians and the military; increased vulnerability to PTSD in different populations e.g. military.

Strategies for Increasing Developmental Resilience

- **The Developing Brain:** how lack of consistency of caregiving alters the brain and behavior, and its relation to developmental psychopathology and impaired attachment; what parents need to know.
- **Increasing Stress-Resilience in School Settings:** applying principles of cognitive neuroscience in the classroom to apply strategies that can help children and teens develop impulse control, focused awareness, and cognitive enhancement.
- **Full Spectrum Strategies To Improve Stress Resilience:** dietary variety, physical activities, cognitive challenges, stress inoculation, cognitive enrichment and reframing, and obtaining the right amount of restorative sleep.

Advance in research have shed light on how the brain develops in the early years and how brain circuits mature and become wired in the adult brain.

These findings provide a much better understanding of the basis of developmental disorders and psychopathology that begins in early life.

Participants completing this program should be able to identify:

1. Development of key cognitive abilities
2. Development and maturation of brain circuits, especially in emotional and reward systems
3. Brain mechanisms underlying developmental disorders such as autism spectrum disorders, ADHD, Down syndrome, and schizophrenia
4. The role of early life experience and how infants can inherit the trauma and stress experienced by their parents
5. The role of early life stress and fragmentation of maternal care in development of later adult psychopathology including depression and PTSD, and
6. Strategies to better understand and help children and adolescents with vulnerabilities that increase risk of mental disorders.

ABOUT THE INSTRUCTOR

Mike Yassa, Ph.D., Associate Professor in the Department of Neurobiology and Behavior and Neurology and Director of the Center for the Neurobiology of Learning and Memory at the University of California, Irvine. Dr. Yassa and his colleagues recently discovered that a fragmented, unpredictable connection between mother and child is a key factor that predicts developmental disorders of learning, memory, and impulse control.

Dr. Yassa has received multiple awards including from the National Science Foundation, National Institute on Aging, National Institute on Mental Health, and private foundations.

An inspiring and inspired instructor, Dr. Yassa is one of the most highly rated instructors at Irvine. Dr. Yassa has won multiple awards for research and teaching excellence. Dr. Yassa has appeared on BBC World News, ABC News, CNN Health, Fox News, NBC News and the PBS NewsHour. Dr. Yassa is highly recommended by health professionals for his ability to communicate key concepts and their practical applications with warmth and enthusiasm.