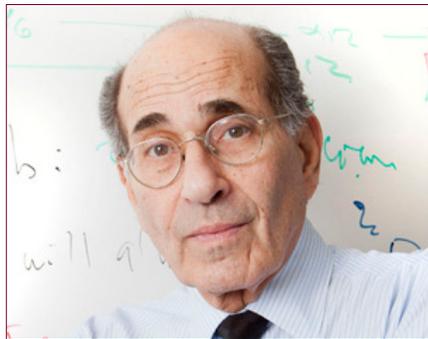


## Brain Day Showcases Clinical, Basic Research at Brown, Hospitals Nobel Laureate Dr. Richard Axel delivers keynote on the sense of smell

PROVIDENCE — At Brown University's second annual MindBrain Research Day held last week, more than a hundred university and hospital-affiliated researchers showcased their work at a poster exhibition in Sayles Hall. Topics spanned a wide spectrum in the 128 posters, from state-of-the-art developments in neurophysiology and adaptive devices, gene therapies, treatment of brain diseases, substance abuse, weight loss, developmental screening in children, depression and the elderly, just to name a few.

After the exhibition, Nobel Laureate **DR. RICHARD AXEL** of Columbia University delivered the keynote address, "Order from Disorder: Internal Representations of the Olfactory World," in Salomon Hall.

In 2004, he and co-Nobel recipient Linda Buck were recognized for their discoveries of odorant receptors and the organization of the olfactory system. They published their findings jointly in 1991, which reported the presence



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of a large gene family, comprised of some 1,000 different genes (three per cent of our genes) that gives rise to an equivalent number of olfactory receptor types.

Dr. Axel described how the sense of smell is perceived by these specialized receptors located on cells in the upper part of the nasal epithelium of the "peripheral olfactory organ" (aka the nose). Different receptors perceive a banana, others a ripe strawberry or a good wine. Nerves message the odor information to glomeruli in the

### Poster winners

#### Undergraduate

- 1st place, Hayley Bounds
- 2nd place, Uday Agrawal

#### Graduate Students

- 1st place, Zeyang Yu
- 2nd place, Molly Boutin

#### Research Assistants

- 1st place, Daniella Amri
- 2nd place, Christina D'Angelo

#### Clinical Psychology Residents

- 1st place, Jessica Peters
- 2nd place, Marisa Sklar

#### Psychiatry Residents

- 1st place, Jorge Almeida
- 2nd place, Brian Theyel

#### Postdoc (basic science depts)

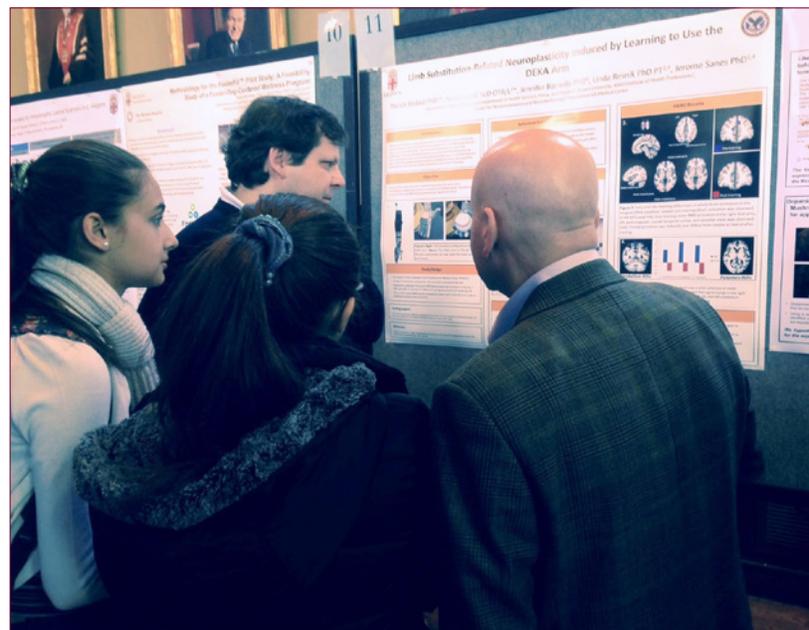
- 1st place, Abigail Polter
- 2nd place, Ernest Ho

#### Postdoc (clinical depts)

- 1st place, Jared Saletin
- 2nd place, Laura Hancock



PHOTOS: MARY KORR



Last week, a poster exhibition at Brown's Sayles Hall showcased the work of university and hospital-affiliated researchers in celebration of the second annual MindBrain Research Day held March 25.

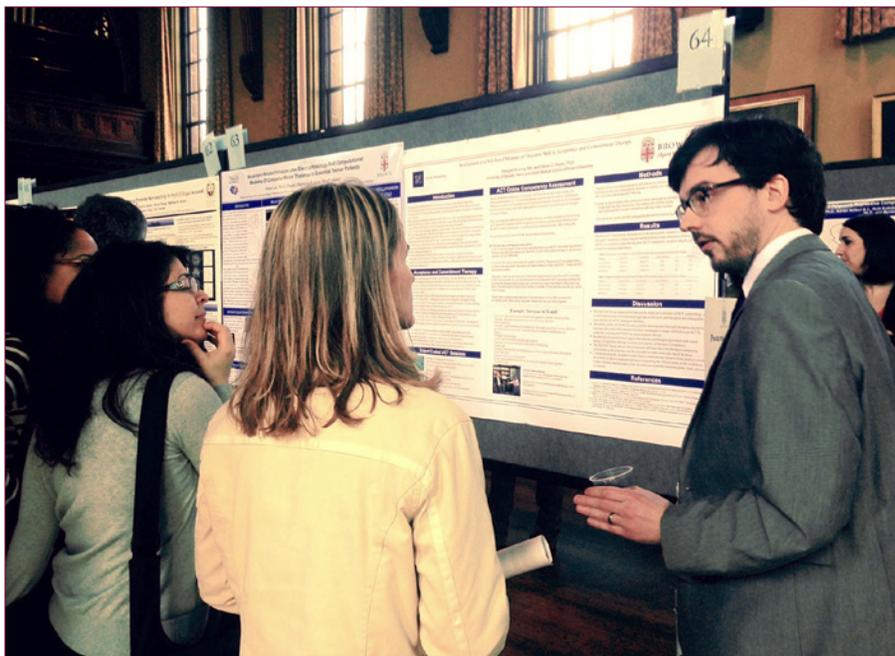
Poster 11, by faculty member Patrick Bedard, PhD, et al, depicted the examination of neuroplasticity involved in limb-substitution learning associated with learning to control the DEKA Arm, an advanced, foot-controlled prosthetic device.

olfactory bulb in the brain, which is then translated by other parts of the brain, forming a pattern.

The recognition of odors is translated into an internal representation of sensory quality in the brain and, according to Dr. Axel, this leads to meaningful thoughts and behavior, allowing humans and animals to distinguish good smells from bad ones; i.e., a bad clam or a fragrant lilac or a burning building.

After the keynote address, winners of the poster competition were announced.

The event was sponsored by the Brown Institute for Brain Science; the Norman Prince Neurosciences Institute (NPNI); the Departments of Neurology; Neurosurgery; Neuroscience; Molecular Pharmacology, Physiology and Biotechnology (MPPB); and Psychiatry and Human Behavior. ❖



Poster 64, by clinical psychology resident Douglas Long, MA, et al, described the development of a new measure of therapist skill in Acceptance and Commitment Therapy (ACT).

## Kent Hospital Receives State Approval to Perform Coronary Angioplasty

WARWICK – Care New England has received approval from the Rhode Island Department of Health to develop and implement a coronary angioplasty program at Kent Hospital in Warwick.

It is expected the elective angioplasty program will be operational after several months of clinical preparation including staff training at Brigham and Women's Hospital in Boston. Also, the 24-hour, emergency angioplasty service would follow approximately six months later upon the completion of construction of a second cardiac catheterization lab.

"On behalf of Care New England and Kent Hospital, I would like to thank the Rhode Island Department of Health for its thorough review and approval of our application for a certificate of need to perform coronary angioplasty at Kent Hospital," said **MICHAEL DACEY, JR, MD**, Kent Hospital president and COO. "This standard-of-care procedure will result in lives saved because of decreased travel time to access this critical treatment."

Data presented to the state Department of Health during the approval process demonstrated that patients residing south of the metro Providence area (more than 300,000 Rhode Islanders) would benefit greatly from expanded access to coronary angioplasty via the new program at Kent Hospital.

Data presented during the approval process also showed that for many patients in parts of Kent County and further south it is possible that transportation to a current facility capable of providing this treatment could add upwards of 20 minutes travel beyond Kent Hospital, thereby delaying critical treatment for some 300,000 Rhode Islanders.

"For patients having a heart attack, 20 minutes and even 10 minutes, is an enormous amount of time and can be the difference between someone living or dying. Reducing this time to open a closed artery will clearly save lives starting in year one," said **CHES-TER HEDGEPEETH, MD, PHD.**, chief of

cardiology at Kent and the leader of the Brigham and Women's Cardiovascular Associates at Care New England, executive chief of cardiology at CNE.

"As the second largest hospital in Rhode Island and with nearly 70,000 emergency department visits annually, it is vitally important that we be able to provide this life-saving service to the more than 300,000 people in the immediate service area of Kent and points south. We look forward, through our clinical affiliation with Brigham and Women's Hospital, to developing this critical program for our community," said Dr. Dacey.

"The cardiology program across Care New England, and here at Kent, has grown tremendously over the past several years to provide access to and treatment for general and complex cardiovascular care. Today's approval is another important step in providing the community and patients with the best possible care close to home," said Dr. Hedgepeth. ❖