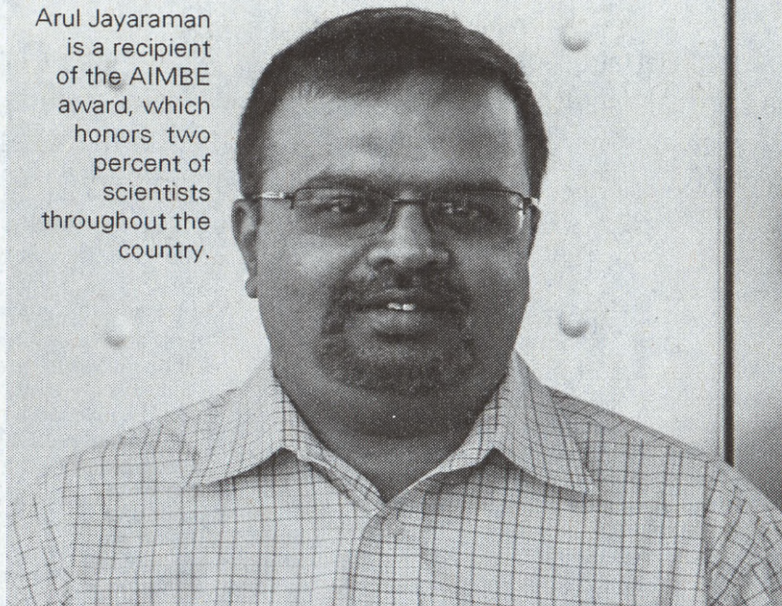


CELL TALK

Arul Jayaraman is a recipient of the AIMBE award, which honors two percent of scientists throughout the country.



Shelby Knowles — THE BATTALION

Microbiologist receives fellowship for cell communication

The Battalion news reporter Kasey Khoobiar sits down with Arul Jayaraman, associate professor in the Artie McFerrin Department of Chemical Engineering at Texas A&M and newly elected fellow of the American Institute for Medical and Biological Engineering, to discuss his AIMBE membership, a membership only offered to the top two percent of the country's most accomplished medical and biological engineers.

THE BATTALION: Tell us a little about AIMBE.

JAYARAMAN: Basically it's an organization that was formed to both recognize outstanding achievements in bioengineering — very broadly defined medical and biological engineering — and also to use it as a forum for advocating for science and engineering for policy matters, et cetera. I think AIMBE acts to promote and further the interests of the science community by taking prominent people, much more prominent than me, and giving them the platform to talk for others to hear who can help.

THE BATTALION: Your research is in molecular systems biology. What does that mean in layman's terms?

JAYARAMAN: Chemical engineers in general work with molecules, molecules and reactions for producing something or for understanding how something works. I fall in the latter category. Systems biology is basically a term used to describe application of chemical engineering principles and approaches to biological problems. It's a new area of research that has come up in recent

years. So for example, one can take a cell and treat it just like one would treat a chemical plant because in a chemical plant you are producing something, and a cell produces something, so concepts that you apply to maximize production of something in a chemical process in a plant can, in theory, be applied to a cell and be used to produce something or to manipulate it or to understand how it works.

THE BATTALION: What made you take an interest in molecular systems biology?

JAYARAMAN: When I started my career, that's when this was coming up, this started coming up. I have some really good colleagues here who — we just got started talking, and just got working on it, it just happened.

THE BATTALION: What is the focus of your research?

JAYARAMAN: So basically, right now, we specifically focus on the interkingdom signaling and interaction between bacteria and host cells. That is basically the main aspect that we focus on.

THE BATTALION: What is the impact you foresee your research having on the scientific community?

JAYARAMAN: So this can potentially have an impact in several diseases, ranging anywhere from cancer, inflammatory bowel disease, to obesity, all of which have some component that involves the bacteria in the body. My lab, we work with the people over at the vet school, the med school, the people in AgriLife, who bring the expertise in these different diseases to try and work together on this.

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Newsday Crossword

- ACROSS
- 1 Smartphone predecessor: Abbr.
- 4 Aladdin's magic pal
- 9 Oil cartel
- 13 European Union predecessor: Abbr.
- 14 Clownish behavior
- 15 "Gimme a break!"
- 17 Lobbying org.
- 18 Disneyland meetable character
- 20 Put up a fuss
- 22 Ousted
- 23 Reason d'...
- 24 Rowboat tool
- 26 "Steady as ___ goes"
- 27 Beverly Hills shopping venue
- 30 Christmas season
- 34 Actress Hathaway
- 35 Performing group
- 37 Scratch up
- 38 Capital of Belarus
- 40 Start of many work wks.
- 41 Public persona
- 43 Supermarket ID
- 44 Exam for HS juniors
- 46 Proofreader's "leave it" mark
- 47 Performs
- 49 Salty snack
- 53 Bi- + 1
- 55 Urban rd.
- 56 Havana's land
- 57 They're on the team
- 61 Clothing
- 63 Grade-school volunteer
- 65 Rocky III villain
- 66 Architect from China
- 67 Silly
- 68 Make public
- 69 Whispered attention-getter
- 70 Trims back
- 71 Thumbs-down vote
- DOWN
- 1 Chili or jalapeño
- 2 Cherished by
- 3 Conformity
- 4 Willing to try
- 5 Sitcom installment
- 6 Bees' collection
- 7 Perturb
- 8 Examined closely
- 9 Get-up-and-go
- 10 "Rats!"
- 11 Australian flightless birds
- 12 Detective's gig
- 16 Neighbor of the Simpsons
- 19 Thumbs-up
- 21 Typical high-schoolers
- 25 Lasagna cheese
- 28 Working in a mess hall
- 29 Movers' vehicle
- 31 Pulp Fiction actress
- 32 Fall behind
- 33 Before, in poetry
- 36 Mambo bandleader
- 38 Wenta dirt
- 39 Stock mkt. premiere
- 40 Longtime Chinese leader
- 42 Tourist draw
- 45 Prefix meaning "coil"
- 46 Instructions starter
- 48 Modes of fashion
- 50 Video-game face
- 51 Portugal + Spain
- 52 Ridiculously small
- 54 Send payment
- 57 ___ Beta Kappa
- 58 4 Across's home
- 59 Swiss mountains
- 60 Scoundrel
- 62 Possible other title for a CEO
- 64 ___ manner of speaking

COMPUTER QUARTET by David W. Cromer Edited by Stanley Newman www.stanwords.com

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71

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MINSK MON IMAGE
UPC PSAT STET
DOES POTATOCHIP
TRI AVE CUBA
PLAYERS APPAREL
HALLMONITOR MRT
IMPET INANE AIR
PSSIT PARES NAY

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