Ruminations on the medical life



t's a Friday morning in late September, him in the lab. things tick," he says. Schumann considered and a Scaife Hall laboratory is filled It was late in the afternoon. Helping her studying ecology and zoology before deciding 📥 with 161 first-year medical students. meant going home late, maybe missing din- to major in biology at Rutgers University. As The class, Medical Anatomy, is their first at ner. Rice-Stubbs says she would have been an undergraduate, he loved studying photo-Pitt Med in the Foundations of Medicine grateful if Schumann had reviewed head and synthesis, cellular respiration, and embryology. sequence, and this is the end of the fourth neck anatomy with her for 20 minutes. His family pushed for him to attend medical week of dissecting the cadavers that line the "He spent the next two-and-a-half hours school, but Schumann wasn't interested in walls. The room is long and narrow with a in the lab reviewing anatomy with me and my becoming a physician. After college, he stayed low ceiling, and when Jack Schumann, a PhD classmates," she says. at Rutgers, earning a master's in cell biology and anatomy course director, walks out of Schumann's efforts have been noticed. and a PhD in morphology. the lab office buttoning his white coat, the Since becoming Medical Anatomy course He had never even taken an anatomy students who greet him have to yell over the director in 1998, he has won 12 Excellence course before, but when Schumann began cacophony.

Michelle Zhang, a Vassar College graduate, asks Schumann if he'll help her group start the morning's assignment: removing the cadaver's brain.

"Absolutely," he says. "Let's go."

A few minutes later, Schumann is cutting around the cadaver's skull using a handheld electric saw, while Zhang in Education Awards. He received the working as a professor at another university, holds the head still. More than 30 students Kenneth E. Schuit Master Educator Award, he was asked to teach the subject to underare crammed around the table in this corner the Sheldon Adler Award for Innovation in graduates. "My chairman said: Just keep a of the lab to watch Schumann dissect. Medical Education, and the Golden Apple chapter ahead of the students," Schumann says. This is what Schumann does. As third- Award. In 2017, Schumann was recognized "It was a struggle at first." year Mara Rice-Stubbs describes it, he goes with the Chancellor's Distinguished Teaching The night before each class, Schumann through the trenches with his students. When Award. would stay up late to memorize bones, mus-

Rice-Stubbs took anatomy, she struggled to "I try to set the stage, show everybody the cles, and nerves, and after a couple of years memorize the onslaught of information. One big picture, and then go into the fine detail," of cramming like this, not only did he get comfortable teaching the material, but he also day, she visited Schumann in his office, Schumann says. and, though embarrassed to admit it, she began to enjoy it. In his spare time, he did revealed that she was falling behind in class. Chumann, 66, grew up in southern New the coursework for a PhD in anatomy, but Rice-Stubbs expected Schumann to suggest a Jersey, near Philadelphia, and as a teen- because he already had a PhD in morphology, review book or a new study strategy. Instead, V ager, he became interested in biological he decided not to write a dissertation. he told her to drink a cup of coffee and meet sciences. "I just liked to know what made What his students are going through is not

"LOOK AT THAT!"

IACK SCHUMANN GIVES STUDENTS A ROAD MAP TO THE HUMAN BODY **BY GAVIN JENKINS** PHOTO BY TOM M. JOHNSON

One day, she visited Schumann in his office, and, though embarrassed to admit it, she revealed that she was falling behind in class. She expected Schumann to suggest a review book or a new study strategy. Instead, he told her to drink a cup of coffee and meet him in the lab.

alien to him. Schumann recalls which material was especially difficult.

course terrified him-"everything" scared him is the most crucial class. Schumann would their families. at first. "It all just seemed overwhelming."

to what," he says. "It's like learning a foreign is a rite of passage for future doctors. language."

This is Schumann's favorite analogy for what it's like to learn anatomy; and coincidentally, his wife, Maria, is a linguist who used to work at the United Nations. She's fluent in Spanish, English, French, and Italian.

Rice-Stubbs says that every medical school course feels like the most important one. But the students attend a ceremony in Heinz And he remembers which sections of the she notes that it's easy to argue that anatomy Memorial Chapel to honor the donors and agree. Some medical schools don't begin with "Even in an undergraduate course, you're anatomy, and he says that's a mistake. He calls learning the names of hundreds of bony anatomy the "road map" to the human body, prominences, muscles, nerves, veins, arteries, an "absolute requirement" for diagnosing and organs, and relationships of what's next patients, and he believes dissecting a cadaver dissection of the middle cranial fossa. He

Schumann has a ritual. He breaks the students in the O.R. They're more aggressive about

At the end of their anatomy courses,

Tn the closing minutes of Friday morning's class, Schumann stares into a cadav-Ler's skull to inspect Insiyah Campwala's smiles and says, "I'm going to tell people I did this." As students laugh, he steps back and points at Campwala. "She's going to be a surgeon."

Schumann says it's obvious from the first So on their first day of anatomy lab, class which students are headed toward a life into groups and assigns each group a cadaver. jumping in and dissecting. They pick up the

"Even in an undergraduate course, you're learning the names of hundreds of bony prominences, muscles, nerves, veins, arteries, and organs, and relationships of what's next to what," he says. "It's like learning a foreign language."

🔿 chumann removes the top of the cadav- Then each group is given information about information quickly. "They're not afraid of Umembrane that surrounds the brain. dents sit around a table, they learn the person's Campwala, who graduated from Pitt Anatomy is a seven-week course, and for each age, vocation, and cause of death. lab, he's assisted by five or six physicians who float around the room as he does. Some of the say to them. This person donated their body beams after Schumann's remark in front physicians are active faculty members; others for your medical education. Maybe they hoped of the group. Campwala tells me later that are retired doctors who enjoy helping in labs that you'd learn something that will help others. Schumann will often compliment students and in problem-based learning sessions.

A chorus of handheld saws buzz.

cranial nerves from anterior to posterior," professor in the Department of Neurobiology as he pointed out nerves: Wow! Look at Schumann says to a group of 30. "I'm only and also in the Department of Oral Biology, that! "He's seen the same nerve thousands saving this because I'm being recorded." He teaches head, neck, and throat anatomy to of times." she savs. nods to my recorder and waits for the students dental students. Sarah Albini, a fourth-year This Friday morning in the lab, he's to finish laughing at his joke before adding, dental student, says the first-day ritual is checked in on three groups of students so "But that means front to back."

After he removes the cadaver's brain, Schumann holds it up and points to the optic sections, and you're like: Oh yeah, it's going dent to hold the cadaver's head by the jowls nerves. "See them?" he says, excitedly. "Aren't to be a cadaver. But, then when that person's while he dissects. He's handed a scalpel, but they cool?" Stepping back, he invites other in front of you, and then you're putting that before he cuts, he points at the brain. students to look. "Take a look at the optic person to a family. So yeah, it definitely has a "There's the optic nerve," he says. "Does nerve. Isn't that cool? Everyone see?"

er's skull and peels off the thick dura the person who lived in the body. As the stu- the material," he says. "It's just very clear."

On this Friday morning, the course instruction dents will walk around the lab, inviting the medical school! tors are helping the student groups get started. new students to discuss how they feel. The His level of enthusiasm never drops. same first-day ritual will be staged in the Rice-Stubbs says that when Schumann "Now what I'm going to do is cut the spring, when Schumann, who is an associate stayed late to help her in the lab, he gasped emotional.

lot tied to it."

earlier this year with a degree in biology, This is a beautiful thing, Schumann will is interested in becoming a surgeon. She Course faculty and upper-level med stu- with an exclamatory, You guys should be in

far. He heads to a fourth. He shows them "You know you're going to be doing dis- how to fold back the dura, then asks a stu-

everyone see the optic nerve?"