

## Nurturing the next generation of scientists

**Publish Date:** 26 August 2016 16:30 CEST

Maxwell Tawanda Chirehwa, a pharmacometrician from Zimbabwe currently completing his Ph.D. in South Africa, will soon pack his bags to head home from Basel, Switzerland. He's been there for three months with 19 other young scientists participating in this year's Next Generation Scientist (NGS) program, an immersive internship jointly offered by Novartis and the University of Basel.

NGS participants work on research projects with guidance from mentors and take part in a professional development course. Program offerings range from opportunities to hone public speaking skills to workshops on creating scientific posters and the ethics of scientific imaging. These activities help participants develop successful research careers back home.

The NGS program develops complete scientists.

**Maxwell Tawanda Chirehwa, Ph.D.**, pharmacometrician from Zimbabwe

While opportunities for young scientists abound in the western world, the scientific research scene in Africa, Asia and Latin America looks very different. Most medical research is currently done in developed countries, yet most of the world's population lives in the developing world. And people in developing countries often have different health needs, as well as a different genetic makeup, meaning they may respond differently to medicines.



Novartis and the University of Basel developed the NGS program to address the need to build capabilities in developing countries. Since 2011, more than 120 scientists and clinicians studying everything from molecular biology to clinical trials have participated in the program. They come to gain an inside perspective on pharmaceutical research and development, while Novartis gains insight into healthcare challenges in participants' countries.

"For us it's extremely motivating to have the scientists here for three months," says Guglielmo Roma, Head of Molecular Profiling at Novartis and an NGS mentor. "I learned about their countries; their scientific interests; the different political, social and healthcare conditions."

The NGS program not only teaches you scientific topics, but gives you the courage to believe in yourself and to go back home and build something really good.

**Ana Catalina Alvarez Elias**, pediatric nephrologist from Mexico

"The NGS program not only teaches you scientific topics, but gives you the courage to believe in yourself and to go back home and build something really good," says Ana Catalina Alvarez Elias, a pediatric nephrologist from Mexico who, along with Chirehwa, is about to graduate from the 2016 program.

Most importantly, the program trains researchers to take on the urgent medical challenges in their countries. “Next Generation Scientist alumni are now present in 24 low- and middle-income countries,” says program director Colin Pillai. “These scientists and clinicians represent the seeds to bring sustainable healthcare to the countries where it’s most needed.”

*Meet the Next Generation Scientists and learn more about the program by watching the video playlist below:*

What is Next Generation Scientists?

[Video of What is Next Generation Scientists?](#)

[What is Next Generation Scientists?](#) <sup>[1]</sup>

Developing next generation medicines requires next generation scientists – that’s why Novartis invites talented young scientists from developing countries worldwide to our Basel, Switzerland campus for a three-month research internship.

01:07

[Novartis Next Generation Scientists Director on building scientific capability](#) <sup>[2]</sup>

Colin Pillai, Director of Novartis’s Next Generation Scientists program, found his calling for very personal reasons. Learn why he’s passionate about building scientific capability in developing countries.

01:37

[Next Generation Scientists 2015](#) <sup>[3]</sup>

The Next Generation Scientist Program is an intensive internship program for talented and motivated research scientists from the emerging countries. The 3 month program is hosted at the Novartis research site in Basel, Switzerland and is designed to foster both scientific and professional development.

05:07

[Inspiring the next generation of scientists 2014](#) <sup>[4]</sup>

The Novartis Next Generation Scientist Program has hosted over 80 scientists and clinicians from Africa and the developing world in a 3-month research internship at our Basel, Switzerland, R&D headquarters. The goal: Novartis learns about global healthcare challenges while providing young scientists with skills, knowledge, tools – and the inspiration – to improve healthcare in their own communities.

04:51

### The Next Generation Scientist 2012 [5]

"Being in the Next Generation Scientist program is the best thing that could happen to you. It will change the way you do research and how you communicate your research. It's awesome."  
05:16

### Building the next generation of scientists [6]

Novartis works to expand scientific and clinical capability in Africa and emerging countries. The result is mutually beneficial: Novartis gains insight into diseases in these areas, and the scientists gain connections and learn about Novartis research activities.

01:13

---

**Source URL:** <https://www.novartis.com/news/nurturing-next-generation-scientists>

#### **Links**

[1] <https://www.novartis.com/novartis-video-ajax/73051>

[2] <https://www.novartis.com/novartis-video-ajax/73056>

[3] <https://www.novartis.com/novartis-video-ajax/73066>

[4] <https://www.novartis.com/novartis-video-ajax/73071>

[5] <https://www.novartis.com/novartis-video-ajax/73076>

[6] <https://www.novartis.com/novartis-video-ajax/73081>