



2020

ANNUAL REPORT

VCU INNOVATION GATEWAY

Bringing
Ideas to Life

10 Years at a Glance



42

New Products
to Market



>\$26M

Licensing Revenue



1,200

Invention Disclosures



1,500

Patents Filed



158

Licenses & Options



172

Patents Issued



55+

Start-Ups



421

Industry Engagements

The Year at a Glance

\$2.5M

Licensing
Revenue

133

Invention
Disclosures

22

Options & Licenses

19

Patents Issued

166

Patents Filed

7

Copyrights &
Trademarks

145

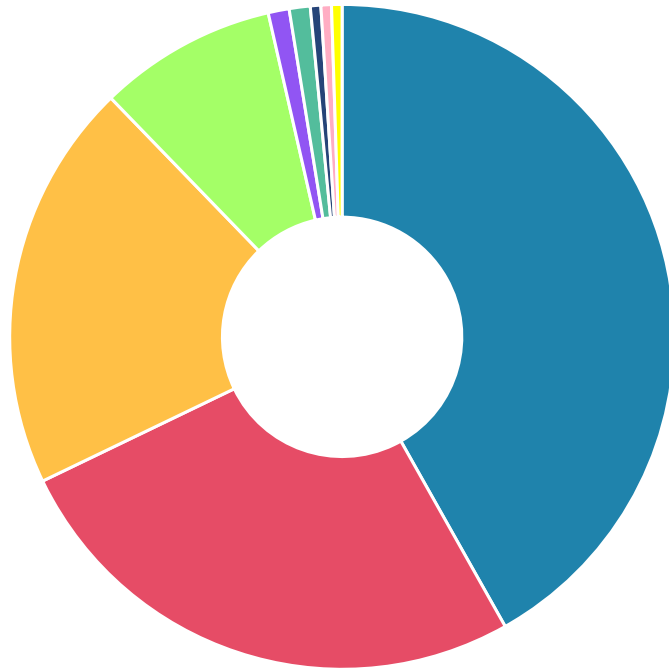
Industry
Engagements

6

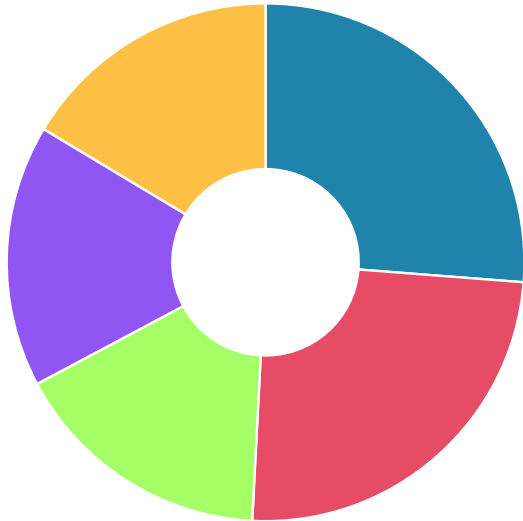
Start-Ups

The Year at a Glance

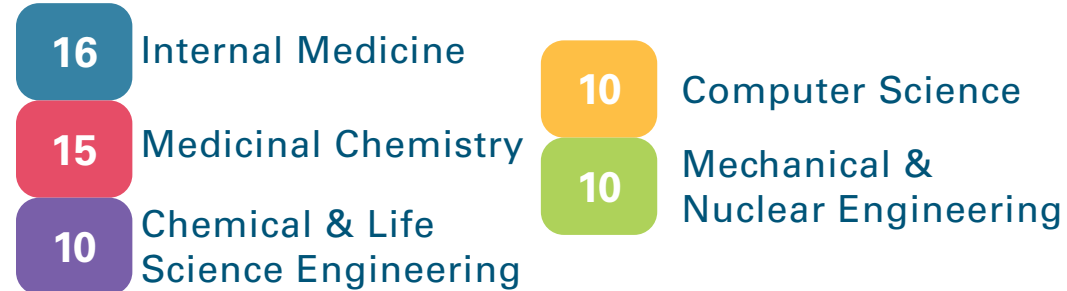
Distribution of Inventions by School



The Year at a Glance



Departments with Ten or More Invention Disclosures



Departments with Five to Nine Invention Disclosures



7/9/2019 Patent No. 10,343,985

Antonio Abbate M.D. Ph.D.; Benjamin Van Tassell Pharm.D.; Shijun Zhang Ph.D.

Cryopyrin Inhibitors for Preventing and Treating Inflammation

7/9/2019 Patent No. 10,344,001

Mohini Ghatge Ph.D.; Yan Zhang Ph.D.; Martin K Safo Ph.D.

Imidazolylacryloyl derivatives as therapeutic agents for sickle cell disease

8/7/2019 Patent No. 3,222,633

Jerome F Strauss M.D. Ph.D.

Compositions and Methods Relating to DENND1A Variant 2 and Polycystic Ovary Syndrome

8/8/2019 Patent No. 3,029,073

Richard T Marconi Ph.D.; Christopher Earnhart Ph.D.

Polyvalent chimeric OspC vaccinogen and diagnostic antigen

8/13/2019 Patent No. 10,376,570

Jason Carlyon Ph.D.

OMPA AND ASP14 IN VACCINE COMPOSITIONS AND AS DIAGNOSTIC TARGETS

9/17/2019 Patent No. 10,414,894

Massimo Bertino Ph.D.

Method for One-Step Synthesis, Cross-Linking and Drying of Aerogels

10/29/2019 Patent No. 10,456,370

Sarah Spiegel Ph.D.

SPHINGOSINE KINASE TYPE 1 INHIBITORS AND USES THEREOF

11/5/2019 Patent No. 10,466,240

Richard T Marconi Ph.D.; Christopher Earnhart Ph.D.

Polyvalent chimeric OspC vaccinogen and diagnostic antigen

Issued Patents

12/3/2019 Patent No. 10,495,639

Jason Carlyon Ph.D.

Anaplasma marginale surface protein OmpA as a vaccine/diagnostic target for bovine anaplasmosis

12/27/2019 Patent No. 3,646,744

Wei Zhang Ph.D.; Kenneth J Wynne Ph.D.

Ice Release Coatings

3/3/2020 Patent No. 10,575,726

Paul A Wetzel Ph.D.; Mark S Baron M.D.; George T Gitchel Ph.D.

An Automated Analysis System for the Detection and Screening of Neurological Disorders and Deficits

3/10/2020 Patent No. 10,583,116

Gregory A Buck Ph.D.; Kimberly K Jefferson Ph.D.; Philippe Girerd M.D.; Abdallah A Abdelmaksoud B.S.

Use of HMG-CoA Reductase inhibitors to treat and prevent bacterial vaginosis

3/17/2020 Patent No. 10,593,389

Md Mamun Al-Rashid; Dhritiman Bhatccharya; Jayasimha Atulasimha Ph.D.

Switching Skyrmions with VCMA/Electric Field for Memory, Computing, and Information Processing

3/24/2020 Patent No. 10,597,728

Manny Bacolod Ph.D.; Paul B Fisher M.Ph. Ph.D.

Novel Methylation Site Regulating Expression of MDA-9/Syntenin

4/21/2020 Patent No. 10,627,383

Brandon Dodd; Gary Tepper Ph.D.

Method and Apparatus for Measuring Trace Levels of Uranium in Water

4/21/2020 Patent No. 10,624,863

Sarah Spiegel Ph.D.

SPHINGOSINE KINASE TYPE 1 INHIBITORS AND USES THEREOF

5/19/2020 Patent No. 10,655,024

Vamsi K Yadavalli Ph.D.; Ramendra K Pal Ph.D.

Flexible, Biodegradable, and Biocompatible Supercapacitors

5/19/2020 Patent No. 10,653,634

Martin K Safo Ph.D.

POLYMERIC NANOPARTICULATE FORMULATION TO ENHANCE THE ORAL BIOAVAILABILITY OF DAPOXETINE

5/26/2020 Patent No. 10,661,251

B. Frank Gupton Ph.D.; Stanley Eugene Gilliland Ph.D.; Caleb Kong; Brian Clark

CARBON BASED MATERIALS AS SOLID-STATE LIGANDS FOR METAL NANOPARTICLE CATALYSTS

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