

The Mass General Research Institute

Orientation for Professional Staff

Rev. 10 February 2020

Bright Ideas That Transform Medicine.

1979

First use of MRI for diagnosis

1925

First tumor clinic founded

1846

First demonstration of ether as general anesthetic

1997

First demonstration that antivirals control early HIV

2015

Alzheimer's in a dish

IN THE FUTURE...

who knows where the next research breakthrough at Mass General could lead?



Transforming Medicine

Through Innovation

Research at MGH

began over 200 years

ago. Today, the *Mass*

General Research

Institute is home to the

largest hospital-based

research program in

the United States.

The Mass General Research Institute is:

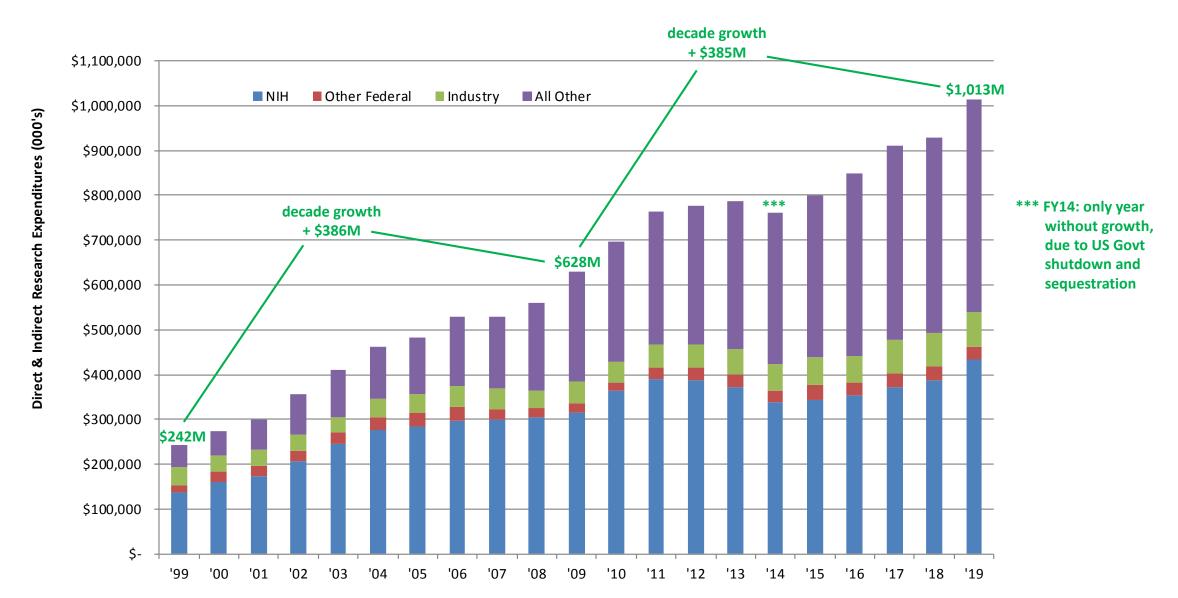


- A community of 9,500 people working every day to improve healthcare
 - 2,000 principal investigators leading research teams
 - 4,000 scientists and research staff
 - 1,500 research fellows (postdocs)
 - 800 graduate students
 - 1,200 research administrative support staff
- Over 30 Departments, Centers and Institutes
- Annual research revenue/spending over \$1 billion
- Over 1.3 M square feet of research space
- FY18: 1,643 patents filed, \$94.6M royalty/license \$
- Over 2,000 active clinical trials ongoing
- Over 500 journal publications per month
- 1/3 of all 3,000 MGH clinicians are research Pl's



MGH Total Research Revenue Trend

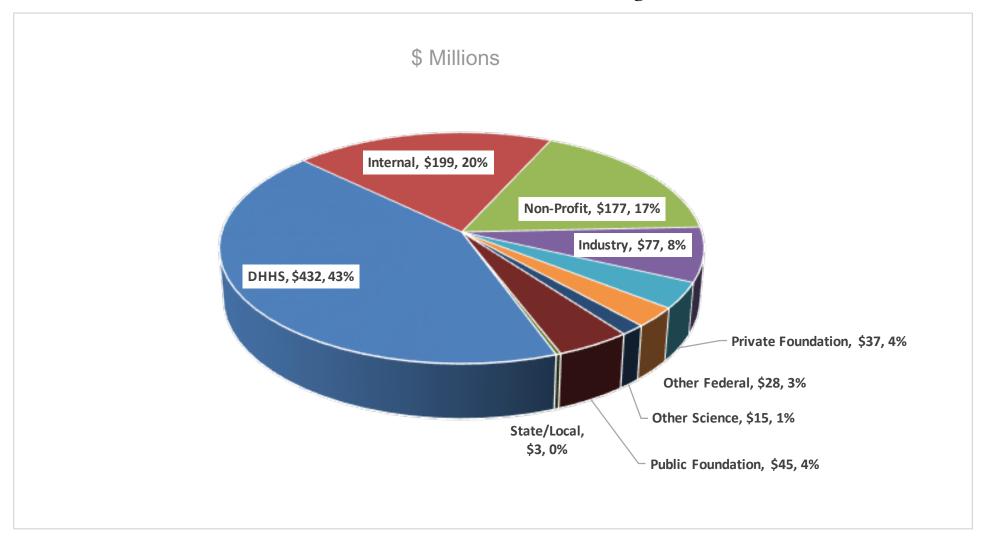
MGH Research has grown 318% over 20 years to \$1.013B (Compounded annual growth rate of 7.4% between FY1999 and FY2019)



MGH Total Research Revenue by Sponsor



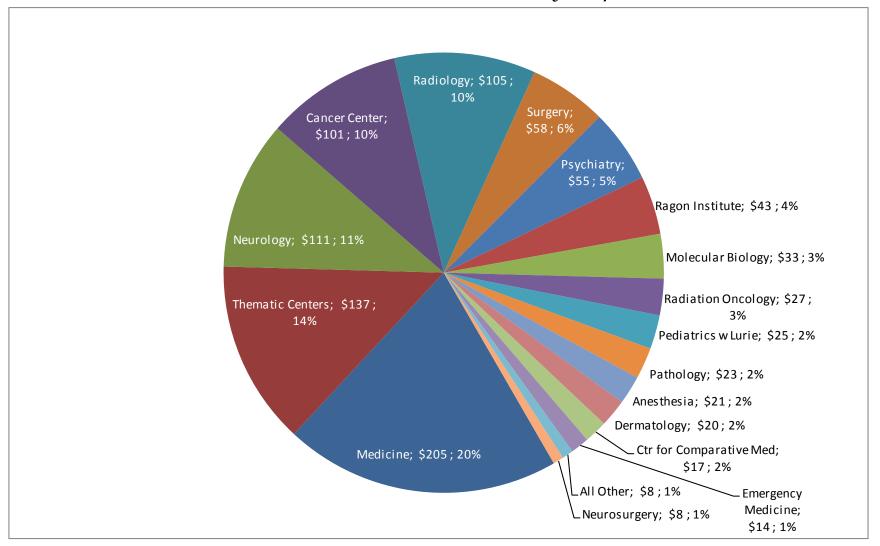
FY2019 Direct + Indirect Research Revenue Including Other Science =\$1,013M



MGH Total Research Revenue by Department



FY2019 Direct + Indirect Research Revenue by Department =\$1,013M



NIH Funding Rank Trends – All Organizations

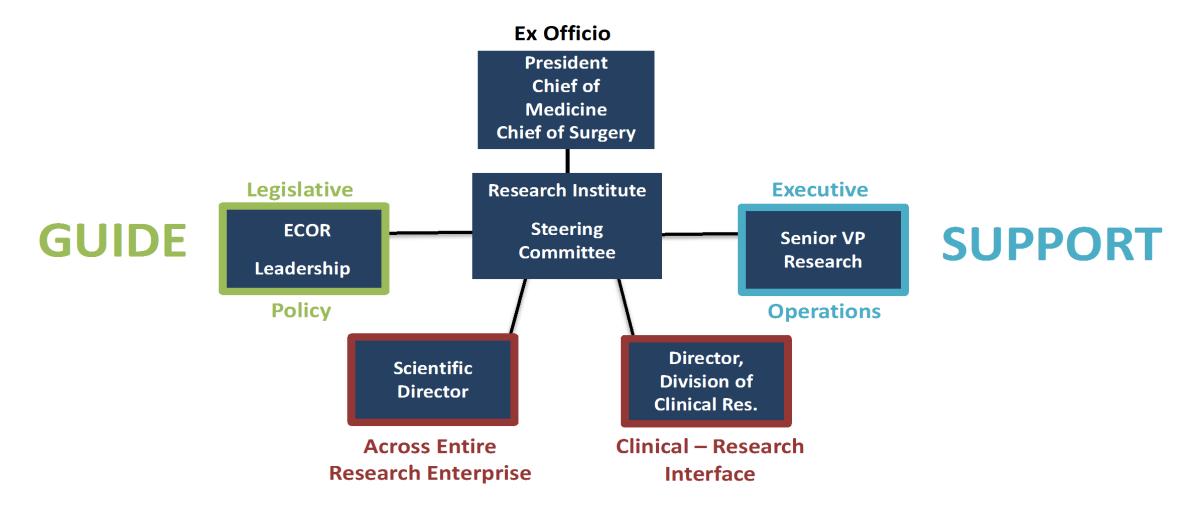
PARTNERS.
HEALTHCARE

		Rank						Total Funding				Percent	Change		CAGR
FY15	FY16	FY17	FY18	FY19	INSTITUTION	FY2015	FY2016	FY2017	FY2018	FY2019	15-16	16-17	17-18	18-19	15-19
1	1	1	1	1	JOHNS HOPKINS UNIVERSITY	\$567,666,828	\$634,940,987	\$651,844,903	\$674,583,550	\$738,902,030	11.9%	2.7%	3.5%	9.5%	6.8%
2	2	2	2	2	UNIVERSITY OF CALIFORNIA SAN FRANCISCO	\$557,140,709	\$575,219,351	\$593,909,890	\$647,880,065	\$678,448,527	3.2%	3.2%	9.1%	4.7%	5.0%
3	3	3	3	3	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$449,440,199	\$483,326,335	\$521,788,658	\$552,433,992	\$587,714,441	7.5%	8.0%	5.9%	6.4%	6.9%
4	4	4	5	4	UNIVERSITY OF PENNSYLVANIA	\$448,051,440	\$473,635,717	\$493,869,965	\$511,419,097	\$575,753,947	5.7%	4.3%	3.6%	12.6%	6.5%
5	5	5	4	5	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$425,603,684	\$472,566,210	\$485,268,079	\$536,502,831	\$543,936,673	11.0%	2.7%	10.6%	1.4%	6.3%
7	6	6	6	6	STANFORD UNIVERSITY	\$421,175,041	\$425,062,412	\$465,856,075	\$505,474,358	\$524,339,123	0.9%	9.6%	8.5%	3.7%	5.6%
9	12	9	7	7	WASHINGTON UNIVERSITY	\$377,643,762	\$396,519,867	\$435,637,200	\$486,295,442	\$522,136,420	5.0%	9.9%	11.6%	7.4%	8.4%
6	9	7	12	8	UNIVERSITY OF WASHINGTON	\$422,917,954	\$402,088,254	\$443,367,966	\$455,841,035	\$513,046,902	-4.9%	10.3%	2.8%	12.5%	4.9%
14	11	8	8	9	DUKE UNIVERSITY	\$333,942,671	\$397,768,992	\$440,306,575	\$475,338,515	\$510,839,760	19.1%	10.7%	8.0%	7.5%	11.2%
13	15	15	9	10	MASSACHUSETTS GENERAL HOSPITAL	\$352,918,609	\$364,981,379	\$394,465,880	\$465,776,958	\$499,491,693	3.4%	8.1%	18.1%	7.2%	9.1%
10	7	12	14	11	UNIVERSITY OF NORTH CAROLINA CHAPEL HILL	\$375,543,736	\$408,423,743	\$419,977,336	\$446,660,231	\$499,359,845	8.8%	2.8%	6.4%	11.8%	7.4%
12	8	10	13	12	YALE UNIVERSITY	\$352,274,351	\$406,376,306	\$425,247,606	\$454,012,666	\$486,802,548	15.4%	4.6%	6.8%	7.2%	8.4%
8	10	11	11	13	UNIVERSITY OF CALIFORNIA SAN DIEGO	\$387,576,202	\$400,413,190	\$424,405,801	\$459,093,333	\$485,863,550	3.3%	6.0%	8.2%	5.8%	5.8%
16	14	13	10	14	COLUMBIA UNIVERSITY HEALTH SCIENCES	\$330,752,289	\$379,738,538	\$402,667,654	\$464,799,343	\$476,000,433	14.8%	6.0%	15.4%	2.4%	9.5%
11	13	14	15	15	UNIVERSITY OF CALIFORNIA LOS ANGELES	\$370,466,843	\$380,488,703	\$401,246,794	\$409,733,609	\$451,176,336	2.7%	5.5%	2.1%	10.1%	5.1%
20	19	18	18	16	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	\$257,359,170	\$275,560,503	\$317,816,778	\$345,221,510	\$368,178,622	7.1%	15.3%	8.6%	6.6%	9.4%
18	17	17	17	17	EMORY UNIVERSITY	\$287,920,427	\$294,496,913	\$324,991,446	\$350,444,625	\$365,542,683	2.3%	10.4%	7.8%	4.3%	6.1%
15	16	16	16	18	BRIGHAM AND WOMEN'S HOSPITAL	\$333,619,020	\$349,521,979	\$390,450,002	\$388,928,321	\$336,901,804	4.8%	11.7%	-0.4%	-13.4%	0.2%
23	20	22	21	19	NORTHWESTERN UNIVERSITY AT CHICAGO	\$220,533,145	\$257,242,821	\$259,084,419	\$304,846,861	\$325,785,391	16.6%	0.7%	17.7%	6.9%	10.2%
22	22	20	26	20	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	Ф1 7 0 2 17 104	ф100 01 2 000	Ф 2 22 5 22 15 7	Ф 2 (0 5 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ф212 052 275	F 0.0/	22.70/	11.60/	20.40/	15 20/
32	32	29	26	20	INLW TOTA UNIVERSITY SOLIOOL OF MEDICINE	\$178,216,104	\$188,813,098	\$233,532,156	\$260,582,932	\$313,852,265	5.9%	23./%	11.6%	20.4%	15.2%
1	1	1	1	1	PARTNERS HEALTHCARE	\$745,587,120	\$774,263,510	\$845,300,651	\$926,079,856	\$927,293,422	3.8%	9.2%	9.6%	0.1%	5.6%

Leadership Structure



MGH Research Institute Steering Committee (RISC)

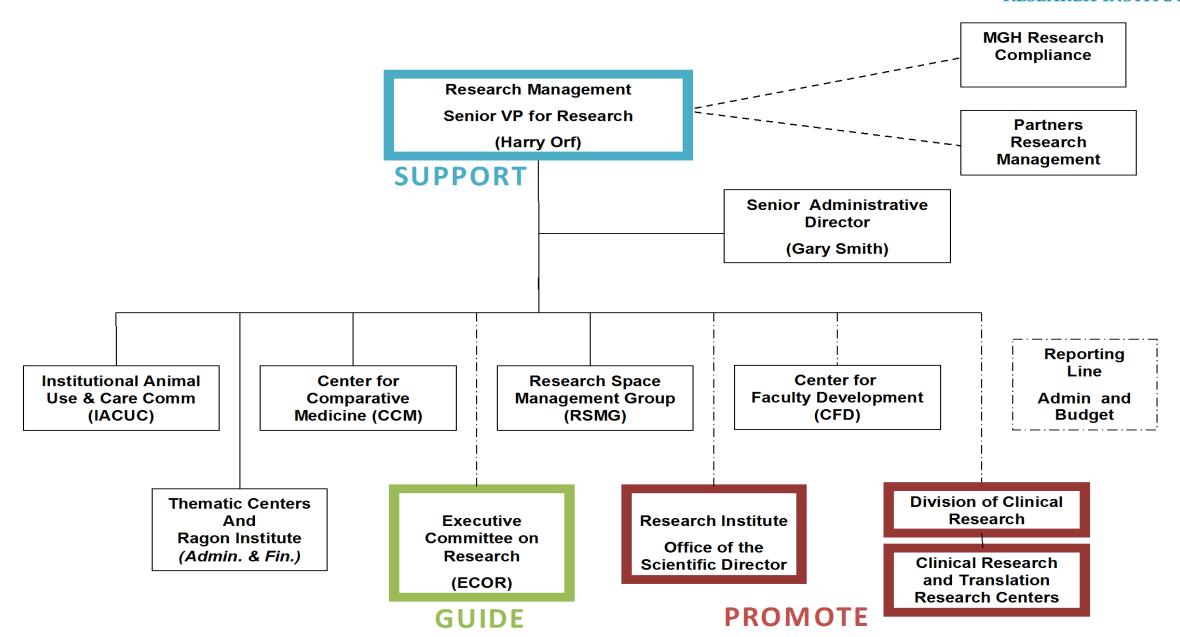


PROMOTE

MGH Research Management







Executive Committee on Research





Membership

ECOR Chairs (Past, Current, Vice)
RISC Steering Committee

Elected Reps

2 Asst. Professors

2 Assoc. Professors

2 Professors

Chief's Council Reps (3)

Thematic Center Directors

Chair-Appointed Reps (6)

Subcommittee Chairs

Partners CAO

MGH and MGPO Presidents

In FY18, we awarded \$10.6M to 114 investigators

Grant	\$	Pls
Interim Support Funds (ISF) (Formulaic/Deliberative)	\$4.5M	56
FMD & Tosteson Fellowships (Postdoctoral Awards)	\$1.6M	22
ECOR Awards & Prizes	\$2.0M	31
MGH Research Scholars	\$2.5M	5

Office of the Scientific Director





Three Target Audiences

The Public Marketing and Communications

Prospective Donors Philanthropic Outreach

Industry Collaborations and Partnerships

Newsletters

Snapshot of Science

From the Lab Bench

Research Roundup

Research Institute Blog

300 published posts

12,000 page views

8,600 visitors

Facebook:

@MassGeneralResearchInstitute

Twitter:

@MGH_RI

Research Scholars Program (60th scholar in 2019)

RI Endowed Chairs (four secured as of 2018)

Fund Raising Meetings 40+ lunches, tours annually

Res. Inst. Advisory Council Donor identification, strategies

1st Quarter FY18 \$24.3M raised for research Strategic Alliances Committee

7 Thematic Programs (189 Pls Total)

Epigenetics

Cancer Immunotherapy

Neuroinflammation in Neurodegeneration

Microbiome

Cardiometabolics

Rare Diseases

Antimicrobial Resistance

Research Portfolio
Portfolio Café' sessions

Training Program

Bridging Academia with Industry

20-week course, problem-driven

Division of Clinical Research





Mission: Increase the quality, quantity, and efficiency of translating basic science advances into improved care for our patients

Centers

Bioinformatics Consortium

Biostatistics

Clinical Research Education

Quantitative Health

Clinical Research Center

Community Access (CARE)

Pediatric Translational Research Center

Trial Innovation Unit

Munn Center for Nursing Research

Units

Comparative Effectiveness
Research Unit

Drug Discovery Rounds

Global Health Research

Imaging Biomarkers

Information Technology

Omics

Patient-Centered Outcomes

Philanthropy Education

Qualitative

Survey Research

Cornerstone Initiatives

Partners BioBank at MGH

Fully-consented blood and DNA samples

Patients consented for re-contact

100,000 samples collected April 2019

25,000+ genotyped thus far

Translational Research Center

Fully-staffed 18-bed inpatient unit

Pre-clinical -> First in Humans -> Phase 2B

IND and FDA in-house expertise

Many studies since opening in Nov. 2016



RESEARCH INSTITUTE



OFFICE OF THE | Promoting Research at MGH



DIVISION OF Translating Discovery to Care





Top "10" Things Every MGH Researcher Should Know!

0. YOU are a member and important part of the Research Institute!

The Research Institute was started to support, guide and promote research at Mass General, and it encompasses all researchers and support staff.

- The MGH Research Intranet makes a great homepage! (https://mghresearch.partners.org/)
 The Intranet quickly connects you to important research resources, including:
 - a. One-click access to Google, Partners Research Navigator, Insight, PeopleSoft, Ellucid, the Partners Phone Directory, and MGH Cafeteria Menus
 - b. A help and how-to page with over 60 topics
 - c. A comprehensive research resource guide
 - d. The on-call number to speak with a senior research administrator at any time: 617-726-HOW2 (4692)
- The Executive Committee on Research (ECOR) web site is a resource for internal grants and awards. (http://ecor.mgh.harvard.edu)
 - a. See internal funding opportunities (faculty awards, interim support grants, postdoctoral awards and external award nominations



mghresearch.partners.org

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Top 10

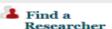


MASSACHUSETTS GENERAL HOSPITAL RESEARCH INSTITUTE

Prime Directive for **Research Support**

- Focus on the researcher
- · Further the research mission and bring value to it
- Maximize the researcher's time at the bench by eliminating or maximizing the efficiency of their ancillary obligations

TOOLS







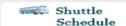














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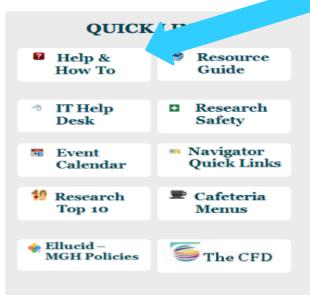
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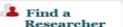
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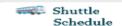














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MGH Research Training and Education Survey

- The survey assists in creating a training program tailored to your job role
- Research training survey is required by all employees in research or research support roles and must be completed leaving orientation today
 - Courses span a variety of topics and may include chemical safety, clinical research conduct, and human subjects training
- The survey can be completed on your smart phone or on a computer

Survey Link https://hub.partners.org/research/surveys/training/

Need help accessing the survey? Contact team@hub.partners.org



Research Training Survey

MGH Research Institute Hub

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MGH Research Institute Hub / Involvement in Research

Involvement in Research

In your job are you engaged in research? (required)

- Yes
- No

[i] Engaged refers to those who are involved in the conduct of research. For example a research fellow, principal investigator, clinical research coordinator or research assistant would be engaged in the conduct research.

In your job do you provide support to people who are actively engaged in research? (required)

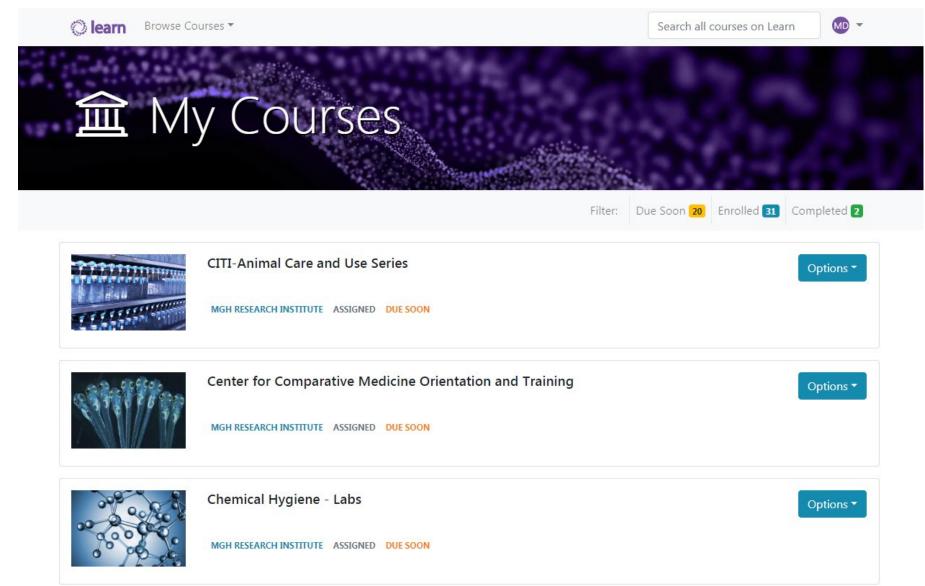
- Yes
- No

[1] Supporting research refers to those in an analytical, financial or administrative role. For example a grant administrator supports research by managing finances.





https://learn.partners.org





WELCOME

to

The Mass General Research Institute!