

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON FINANCE

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B E F O R E:

COUNCIL MEMBERS: Ydanis A. Rodriguez
James G. Van Bramer
Vanessa L. Gibson
Robert E. Cornegy, Jr.
Laurie A. Cumbo
Corey D. Johnson
Mark Levine
I. Daneek Miller
Helen K. Rosenthal
Steven Matteo

A P P E A R A N C E S (CONTINUED)

Maria Gotsch, President and CEO
Partnership for New York City

Dr. Eva Cramer, Vice President Biotechnology and
Scientific Affairs Downstate Medical Center

Dr. Piraye Beim
Founder, CEO & Chief Scientist
Celmatix

Dr. Kate Rochlin
Co-Founder and Chief Scientific Officer
Immunovent

James Moore (sp?)
Founder, President & CEO
Biogenetics (sic)

Chris Marshall
Founder and CEO
Avatar Biotechnologies and Avatar Medical

Jeffrey Wang

[sound check, pause]

[gavel]

CHAIRPERSON FERRERAS-COPELAND: Good

morning and welcome to today's hearing. I am Julissa Ferreras-Copeland and I'm the Chair of the Finance Committee. Thank-I want to thank everyone for joining us today. After a long night, the New York Mets won. Yes. (applause/applause) I am really excited to have them both in my district and that they are great winners. So we are excited to bring them home, and for us to take it all the way through. But we won't talk about that because we don't want to jinx anybody. Today, the committee is holding a hearing on proposed Intro 956-A sponsored by Council Member Garodnick and myself. Which is a local law to amend the Administrative Code of the City of New York in relation to extending the biotechnology credit against the unincorporated business tax and general corporation tax. Yes. Before we begin, I'd like to thank the staff of the Finance Division for their preparation of this hearing, specifically my Chief Counsel Tanisha Edwards, Assistant Counsel Rebecca Chasen, Deputy Director and Chief Economist Dr. Ray Majewski, and Principal Financial Analyst Paul Strom.

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2 New York City's Biotechnology credit was first
3 created in 2009 and it is currently set to expire on
4 December 31st, 2015. Proposed Intro 956-A would
5 extend the availability of the credit for an
6 additional three years through December 31st, 2018.
7 Biotechnology is a form of technology involved in the
8 scientific manipulation of living organisms to
9 produce--produce products conducive to improving the
10 lives and health of plants, animals and humans. This
11 includes research on new drugs, medical devices and
12 diagnostic tests. The New York City Biotechnology
13 Credit is a refundable credit of up to \$250,000,
14 which is available to small New York City based
15 biotechnology companies. The intent of the credit is
16 to assist new start-up firms that are researching new
17 ideas and developing new products to help create a
18 vibrant industry in New York City such as the City-so
19 that the City--such as the city becomes a good place
20 to make a career in biotechnology, and locate the
21 kind of ancillary services that the industry needs.
22 The number show that these policies are working as
23 life science is a growing industry in the city. In
24 2013, 28 small early stage firms claimed the
25 biotechnology credit--credit totaling approximately

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2 \$2.4 million in credits. Also in 2013, the average
3 wage of life science related jobs in the city was
4 over \$78,000. And of the number of the life science
5 related jobs, 12,785 a 14.4% increase since 2010,
6 similarly the number of biotechnology establishments
7 reach 931 in 2013, a 7.3% increase from 2010.

8 While these numbers are encouraging, we
9 as Council must also remember our responsibility to
10 spend taxpayer dollars responsibly. To that end, I
11 am chairing the Council's taskforce on economic
12 development expenditures of which Council Member
13 Garodnick is also a member of, that will ultimately
14 recommend an institutionalize review process to
15 evaluate the effectiveness of the city's economic
16 development tax expenditures including the
17 Biotechnology Tax Credit. While the council has
18 already undertaken inter review--internal reviews of
19 these various tax expenditures, we can expect to see
20 more public rigorous reviews in the future to ensure
21 that expenditures are working to their intents--the
22 intended effects and the city is employing its
23 resources efficiently.

24 Today, we will hear testimony from
25 members of the biotechnology community who have

1
2 benefitted from the tax to learn more about how the
3 credit has contributed to their ability to flourish
4 in new York City. Before we hear testimony, I would
5 like to open the mic to my colleague Council Member
6 Garodnick to say a few words.

7 COUNCIL MEMBER GARODNICK: Well, thank
8 you very much Chair Ferreras-Copeland. It's always a
9 pleasure to work with you, but this one is a
10 particularly important initiative. So I thank you
11 for holding this hearing, which as you noted will
12 extend the Biotechnology Tax Credit against the
13 unincorporated businesses tax and general corporation
14 tax through December of 2018. Biotech is emerging as
15 one of the most important sectors in the world's
16 economy, and our city is in a unique position to take
17 advantage of this. We are home to 59 hospitals, 900
18 life science companies and fast growing start-up
19 scene. Our city received \$1.4 billion in research
20 funding from the National Institutes of Health, and
21 biotechs--biotech companies bring advanced research
22 and development into the city creating middle-class
23 jobs and tremendous innovations. These small
24 emerging businesses face several challenges. There's
25 a scarcity of laboratory space, rising rents and high

1 energy costs. To help, the City Council passed the
2 Biotech Tax Credit first in 2009. The tax is a
3 refundable credit against the taxes that I noted
4 above. Its purpose is to help offset the costs of
5 equipment, research and importantly, training for
6 small biotech businesses in New York City. The money
7 saved goes to patents, space, equipment, training and
8 more. Recent startups can receive a maximum of
9 \$250,000 a year and pre-existing companies can earn
10 up to \$125,000 in credits under certain conditions.
11 This represents huge savings for small companies.
12 Twenty-eight companies took advantage of this tax
13 credit in 2013 up from 23 in 2012. In 2013, the 28
14 applications totaled \$2.4 million in biotech credits.
15 This tax credit works, and we should continue to
16 foster a healthy environment for biotech startups.
17 This tax credit is about keeping New York strong in
18 our rapidly growing biotech sector. The resources
19 pave the way for New York to continue to lead in this
20 industry. So again, Madam Chair, thank you again for
21 holding the hearing on the bill, and I look forward
22 to hearing from the panels today.

24 CHAIRPERSON FERRERAS-COPELAND: Nice

25 said. Thank you, Council Member. We have received

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2 written testimony from the New York City Economic
3 Development Corporation and it will be submitted for
4 the record.

5 FEMALE SPEAKER: The first panel of
6 witnesses will be Maria Gotsch from the Partnership
7 Fund New York City and Dr. Eva Cramer from SUNY
8 Downstate.

9 [pause.]

10 MARIA GOTTSCH: Good morning and
11 congratulations to the Mets. (cheers) Thank you very
12 much for holding, actually for holding this hearing
13 on what we at the Partnership for New York City think
14 is a very important topic and a very important
15 industry to support for New York City. Just a quick
16 background to give you the context. The Partnership
17 Fund is a private fund of money from large
18 corporations and individuals with the mission to
19 create jobs in New York City. And we invest in--
20 (coughs) excuse me--in low-income neighborhoods,
21 social and non-profit businesses, and spend some time
22 also thinking about how to support the growth of new
23 sectors in New York and biotech and life sciences has
24 been a major focus area of ours. Our fund is about
25 \$115 million, and we've committed over 40% of that

1 fund to supporting the growth of the healthcare
2 sector in New York. So it's been a really, as I
3 said, a very big priority for us. So, this tax
4 credit is, as was mentioned, supports a very
5 important growth sector, but particularly why
6 bioscience is so important for New York City is that
7 it really leverages all of the investments that have
8 been made by our academic medical centers on the
9 research side. So we receive the second highest
10 amount of funding from the federal government for
11 biomedical research. But we don't commercialize
12 those jobs as well as we should and can in New York.
13 But the other important reason to support the biotech
14 industry is that it creates good middle-class jobs.
15 The average salary is about \$70 to \$80,000. New York
16 City has lost 100,000 middle-class jobs over the last
17 five years. So finding and identifying industries
18 where we have a good shot and good resources to grow
19 these kinds of job is very important. And the thing
20 about life science jobs is they have a stickiness.
21 So once a company gets settled here, they build out
22 their lab space, is actually a barrier to leaving
23 because lab space is expensive to building, but it
24 also means it's expensive to move. So if you can get
25

1 the company started here, you've got a good shot at
2 keeping them here as they grow and create those
3 middle-class jobs. It also--this tax credit supports
4 significant investments that have been made by the
5 city on the real estate side. So between the
6 Alexandria Center, the two projects in Brooklyn that
7 my colleague, Eva Cramer is going to speak about, the
8 Harlem Bio space up in Harlem. Now, we need to make
9 sure that those properties are filled with good early
10 stage companies that spin out of our universities.
11 And why is this credit important right now? A couple
12 reasons. The first is that over the last 18 months,
13 New York City has had new private capital from
14 venture capital funds form outside of New York who
15 have come to the city who are now looking to invest
16 in companies. The Accelerator Corp has come from
17 Seattle, Versant has come from Europe. Deerfield has
18 raised a new fund focused on early stage science, and
19 then the city's initiative with flagship and arch
20 there are all big pools of capital that are now
21 focused on New York City. So this tax credit
22 supports them, and importantly not only with cash,
23 but it's a very important signal that the city is
24 sending that this is an important sector for us.
25

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2 We're going to partner with you. We're going to
3 provide you with supportive capital. And then the
4 last thing I want to just mention is that the
5 structure of the tax credit is very smart. There's a
6 very good private sector overlay to it. It doesn't
7 last forever. It gets companies started. It skews
8 it towards early stage companies, which is when
9 they're at their sort of most vulnerable risky stage.
10 It gives them the support they need, but also very
11 wisely supports that are growing, and you're not
12 growing, you get a little bit less money, and that is
13 exactly what the private sector does. It picks the
14 winners, supports them with more money, because those
15 are the ones that have the best chance of growing and
16 creating the jobs. So I applaud you for this. I'm
17 happy to take any questions on the industry of this
18 credit.

19 [pause]

20 DR. EVA CRAMER: Thank you for inviting
21 me. My name is Dr. Eva Cramer. I'm Vice President
22 for Biotechnology and Scientific Affairs at Downstate
23 Medical Center, and I am the President of two non-
24 profit organizations, the Downstate Biotech Incubator
25 that you can see here, and the early stage companies,

1 and Biobat at the Brooklyn Army Terminal. For
2 companies that outgrow the incubator as Maria said
3 can stay and grow from 5,000 to 100,000 square feet.
4 Thanks to the borough presidents, the City Council,
5 the state and the federal government, we have
6 received funds to build out these two locations.
7 They are critically important because as Maria said,
8 there was a tremendous need for affordable biotech
9 space in New York City. The incubator is now 50,000
10 square feet. We have 20 companies in that space. It
11 provides modular lab and office space, a core
12 facility and conference rooms for our company. It
13 even has a little nursery program for really very
14 beginning stage companies that need just a bench or
15 desk. The wonderful thing about being close to the
16 university is that they have access to working with
17 our scientists, our clinicians. They can use the
18 library, and they can use special resource--research
19 facilities at the university. When they're big
20 enough, they can also do clinical trials with our
21 physicians. We have an entrepreneurship course for
22 our companies, and workforce development companies.
23 So that we develop the skilled labor force that's
24 needed to help these companies grow. Those programs
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2 together with Hunter College it is a workforce
3 development for undergraduates to teach them
4 biotechnology skills to be technicians to work with
5 our companies. When the companies outgrow the
6 Incubator, they can move to Biobat at the Brooklyn
7 Army Terminal where they can grow from 5,000 to
8 100,000 square feet. [pause] Biobat is 524,000
9 square feet. It's being developed in phases. Phase 1
10 was 38,000 square feet and it houses three companies,
11 the International AIDS Vaccine Initiative and Avatar,
12 both vaccine development companies and this--Marshall
13 from Avatar will be here to speak, and Modern Meadow,
14 which makes cultured meat and (pause). Phase 2 is
15 now 85,000 square feet, and you have to come visit.
16 He has come and seen it. It's a remarkable--

17 COUNCIL MEMBER GARODNICK: In fact, I
18 just have to take a moment to describe the--the
19 situation where you are growing animal cells--

20 DR. EVA CRAMER: [interposing] Right.

21 COUNCIL MEMBER GARODNICK: --and making
22 that hamburger--

23 DR. EVA CRAMER: [interposing] Yes, it
24 is.

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2 COUNCIL MEMBER GARODNICK: --which to me
3 is--I--I don't even know what to do with that. It's
4 kind of incredible.

5 DR. EVA CRAMER: Well, they--the
6 wonderful way--and weather, (sic) too, yes. The
7 wonderful way to think about it is if you're going to
8 the moon or--or Mars, you can't take a cow with you,
9 but you could take a biopsy. So meat is skeletal
10 muscle. So we take a biopsy of skeletal muscle. You
11 can keep it frozen in liquid nitrogen and when you're
12 ready to grow meat, you put it in tissue culture and
13 you just grow as much as you [pause]

14 MARIA GOTSCH: The best part is I moved
15 here from Saint Louis, Missouri. So we attracted a
16 company.

17 DR. EVA CRAMER: Yes, we attracted a
18 company. [pause] So, yeah, actually if I--if I just
19 skipped right to that and that is that these credits
20 are incredibly important to us. You know, New York
21 had the reputation of maybe being not that friendly
22 to companies and that it was very expensive. So
23 having affordable space and the incentives turned
24 around the way people are thinking about coming.
25 Both these sites now are in tax-free zones. They're

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2 part of the Start Up New York Program, but your
3 program that you're initiating gives them cash. As
4 Maria was saying, the little babies really babies
5 really need that. It takes a long time and a lot of
6 work both from an idea to bring it to the
7 marketplace. Especially at the beginning they're
8 really vulnerable and there aren't that many people
9 and they try to do everything. They're trying to
10 raise the money, do the science, market it,
11 everything. So having this type of funds is so
12 important, and I can tell you from the people who are
13 now coming to look at our space they are saying New
14 York is in the business for biotech. It really has
15 turned things around. It's terrific. Thank you for
16 doing this and it's tremendously helpful.

17 CHAIRPERSON FERRERAS-COPELAND: Thank you
18 very much for your testimony and I, you know, I can't
19 say this enough, but the leader of creating and
20 helping create this and to push it and to making sure
21 that we--make sure that this Council is focused in
22 protecting this credit is Council Member Garodnick.
23 He's been working on this since 2009, and to be able
24 to be here today, and to really push it along for
25 three more years I think is something we really need

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2 to acknowledge from the industry but also from the
3 Council's perspective. So I'm really honored to be
4 able to partner with him on this. So I wanted to ask
5 two questions, and as mentioned both Council Member
6 Garodnick and I have been figuring out how best to
7 evaluate these incentives, or expenditures. If we
8 had to kind of fast forward and make--imagine that we
9 are in--three years later, what do you think within
10 your industry is the best way or the most-- We can
11 measure jobs, but is there something else that we're
12 not measuring that can or prove success in the
13 industry that should be included in our evaluation
14 process as a Council?

15 MARIA GOTSCH: Well, I would recommend
16 you also include the dollars that they raise from
17 private sector investors because you're coming at a
18 very early stage. Some--you've got sort of fearless
19 entrepreneurs who are willing to take the risk.
20 Sometimes they can get professional venture capital
21 money. Sometimes they're raising it from
22 individuals. But three years is enough of a runway
23 for most companies to start to prove that their
24 science is working. And if the science works, then
25 they can take it to a private venture fund and raise

1 additional dollars. So the--in its very binary, (sic)
2 you either, you know, meet the scientific milestones
3 and then you can typically raise money, and if you
4 don't meet the scientific milestones it's very yard
5 to raise additional money. So I would add that as
6 additional, and then that gives you private sector
7 validation that these are companies that were, you
8 know, that sort of met the milestones, and were
9 advancing.
10

11 DR. EVA CRAMER: You know, I would also
12 add that raising money from other sources such as
13 from as NIH and SBIR grants are ways of raising
14 money. But showing that I think either they're
15 getting more patents, their--their science is moving
16 forward. I think that showing that science is moving
17 forward is a really important aspect.

18 CHAIRPERSON FERRERAS-COPELAND: Now,
19 while I know you didn't mention the nursery, which is
20 even bigger before you get to small--

21 DR. EVA CRAMER: Right.

22 CHAIRPERSON FERRERAS-COPELAND: --both
23 Dan and I have small children so we also know the
24 importance of going from nursery to pre-K and all the
25 way up. How do we support the medium size, right?

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2 Because we also need to understand that we are--I'm--
3 I'm--does the medium size need the same support, a
4 different type of support, or how do we know--or how
5 do we tell the growing business after you've moved
6 out of the three-year break. What else can the city
7 do besides suggesting another tax break, right? How
8 else can the city support the medium size and then
9 hopefully go get them to be large and still remain
10 here in New York City?

11 DR. EVA CRAMER: You know, they still
12 need more money. So I mean it's very important to
13 understand that taking a drug from an idea to the
14 marketplace is a very--it takes a very long time, and
15 it takes a lot of money. So, if this could be--if
16 companies that already have had this, would be
17 allowed to another three years that would be
18 wonderful. But in addition, the other thing that we
19 need support for is kind of fit out for these
20 companies once they're going to grow from our
21 Incubator over to Biobat. They need now to be able
22 to expand, and they need funds to help them expand in
23 that space.

24 MARIA GOTSCH: I'll just echo the bit
25 about the--the bit about the space. We have made

1
2 some very good progress on space, but there's still,
3 as you talk to the market, are gaps, and that sort
4 of--you've actually put your finger interestingly on
5 where there still is a gap. And that's--it's called
6 step out space. So you've got some good incubator
7 space, but then if you want to have affordable space,
8 so you haven't raised your \$50 million venture round.
9 You're still kind of at the \$5 to \$7 million round.
10 You need to have a private office because of the
11 nature of your science, and you want to have, you
12 know, and you don't have two employees, you want to
13 have probably five to seven. So continued investment
14 sort of focused on good projects within that space
15 would make sense.

16 CHAIRPERSON FERRERAS-COPELAND: Great.
17 And I thank you for speaking on the partnership with
18 the SUNY Downstate and Hunter College. But in this
19 Council we--we often speak about everything, and one
20 of the biggest challenges that we have is our city is
21 very diverse. And what can the industry be doing
22 more to diversity the opportunities? I want to say
23 diversity. It includes women, it includes people of
24 color. We have funded several initiatives from the
25 younger--young kids from junior high to high with

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2 Urban Advantage, which is a partnership with middle-
3 schools understanding sciences through collaborations
4 between urban public schools and science cultural
5 institutions. So we'd like to see an opportunity to
6 do better partnership in that way so that we can
7 create the pipeline necessary. Do you have any
8 examples of that, or opportunities where you can see
9 some pipeline opportunities?

10 DR. EVA CRAMER: So the model program is
11 in Biobat. It has just move into Biobat and we just
12 met with them about forming a model STEM program with
13 them. They set it up as a model and we need funds
14 actually for it. So, to set up this model program,
15 which then could go to all pre-K programs, the truth
16 is that we have to bring entrepreneurship into our
17 school system right from the very early stage, and
18 take it from Pre-K to kindergarten to grammar to, you
19 know, junior high and high school, and inter--and we
20 are also going to step an entrepreneurship at
21 Downstate with our medical students. And working
22 with Brooklyn Law School to set up a joint
23 entrepreneurship program where you bring these two
24 different disciplines together and help them build
25 the company. And so, education--if you want everyone

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2 in the pipeline, education is the way to definitely
3 go.

4 MARIA GOTSCH: City College is doing some
5 very interesting things in terms of workforce
6 development for a little bit more of a near-terms
7 solution. So they--they are very cognizant of kind
8 of the growth of the biotech industry in New York
9 City. So they started some training programs geared
10 towards college students that are helping them
11 understand what is it like to work in a biotech
12 company, what are the skills that you need, giving
13 them those skills. So now we need both the companies
14 to be formed in New York so they can hire those
15 students.

16 CHAIRPERSON FERRERAS-COPELAND: Okay.

17 MARIA GOTSCH: But they have a very good
18 model to look at then you could consider replicating
19 it at a Hunter College or Queens College or College
20 of Staten Island.

21 CHAIRPERSON FERRERAS-COPELAND: Great.

22 So we've been joined to my right by Minority Leader
23 Matteo and to my left Majority Leader Van Bramer.
24 Very appropriate I've got to say, and that's yes we
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2 had a whole cheering session. And we will now hear
3 form Council Member Garodnick.

4 COUNCIL MEMBER GARODNICK: Thank you,
5 Madam Chair. Just a few questions from me. As I
6 understand from--from your testimony, the biggest
7 impediments to the growth of the industry is step-up
8 space. Is that--is that the biggest or am I
9 mischaracterizing sort of the impression we should be
10 left with?

11 DR. EVA CRAMER: Well, I mean at the
12 office an enormous amount of step up, but what we
13 need is help in building out that space so that when
14 companies move in there, we can help them do the
15 tenant fittings.

16 COUNCIL MEMBER GARODNICK: So workable
17 step-up space is what you're saying--

18 DR. EVA CRAMER: [interposing] Right.

19 COUNCIL MEMBER GARODNICK: --so it exists
20 in raw form Biobat--

21 DR. EVA CRAMER: [interposing] Right.

22 COUNCIL MEMBER GARODNICK: --but it's not
23 useful or available at this time?

24 DR. EVA CRAMER: Well, right we have
25 85,000 square feet that is available for people to

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2 move in, but when they actually move in they
3 customize it to their needs. So that costs us
4 additional funds to do that, which is very expensive.

5 COUNCIL MEMBER GARODNICK: Well, if your
6 strategically planning for the City of New York, how
7 much step-up space do you think that we need in
8 looking over the next five-year time horizon or
9 whatever time horizon is the appropriate measure
10 here.

11 DR. EVA CRAMER: We--we have an enormous
12 amount of potential space. What we need are extra
13 funds to build them out so that the companies can
14 just move in immediately.

15 MARIA GOTSCH: And I think you need a
16 diversity of locations as well. So, you--you want to
17 not put all your eggs in one--just as you've got your
18 incubator space in New York and in--sorry, in
19 Manhattan and in Brooklyn and Long Island City that
20 sort of come to the--with the technical development.
21 That's been on everybody's list of a logical place to
22 put some of these--some of these activities. So I
23 think it's a--a--you want to have a diversity of
24 locations. So, the--there is incubator space, and I
25 think as we fuel more companies growing here, you'll

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2 need some more incubator space as well. So it's--
3 because our industry is still pretty young, this is
4 not going to be--the answer to the question is not
5 going to be forever. This is the problem. This is
6 sort of the problem right now, but I think it's one
7 you'll want to revisit every couple of years because
8 as the industry evolves, you'll need new things.

9 COUNCIL MEMBER GARODNICK: How important
10 is the connectivity to other similar companies or
11 hospitals for these companies to be able to, you
12 know, share ideas be in sort of a similar
13 environment? How important is that?

14 MARIA GOTSCH: It's critical and it's
15 critical in a couple of different ways. You know,
16 the science typically develops at the university and
17 then somebody spins it onto a company. But for the
18 first couple of years, that back and forth is very
19 important. And I think that's why New York City makes
20 so much sense for these companies to stay. Because
21 you want to be near that original lab. There's a lot
22 of sharing that happens, and then the pharmaceutical
23 industry in New York has been successful to tracking
24 some big pharmas to come to New York City. Roche
25 moved 200 jobs here. They also want to be in the mix

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2 in talking with the early stage companies. So,
3 connectivity of all the pieces, the university to the
4 early stage to the late stage to pharma. All of that
5 is important.

6 COUNCIL MEMBER GARODNICK: That's one of
7 our natural advantages, too, I suppose.

8 MARIA GOTSCH: [interposing] Exactly.

9 COUNCIL MEMBER GARODNICK: I'm sorry. Go
10 ahead.

11 MARIA GOTSCH: So that--so if you look at
12 the front at the bottom saying forming in the East
13 River Technology Corridor. So the idea that, you
14 know, there is a water taxi that goes from the dock
15 at Biobat that can go up to Alexandria to go to the
16 Cornell Tech campus, and everyone will be able to
17 commute with each other and get around through water.
18 And I think that is tremendously helpful.

19 COUNCIL MEMBER GARODNICK: And it's also
20 worth I suppose flagging in this conversation the
21 opportunities that could exist at the Brookdale site,
22 First Avenue, a place, which is right next to the VA,
23 Bellevue, NYU, and the future of that site is, you
24 know, unknown at this moment in time. You know with
25 a variety of different priorities, but I certainly

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2 think that biotech should probably be the leading
3 priority of the city for that site. You don't need
4 to respond to that unless you want to. (laughter)
5 To--to follow up on--on the Chair's questions about
6 evaluating success, just give us your sense because,
7 you know, this is not an easy question, of course.
8 But we want to make sure that we have struck the
9 right balance here. Is, you know, is the credit
10 sufficient? Is it too much? How do we know? You
11 know, your testimony was we need it. It's very
12 helpful, et cetera. We get that, but how do we know
13 we've struck the right--the right point here for this
14 moment in time for the next three years for this
15 industry?

16 MARIA GOTSCH: So you don't want to be
17 their only source of money, right. You want to be
18 complementing what they've raised from other people,
19 and so you assume--and because it's a credit against
20 other expenses, you know, they had to raise the money
21 from some place. The fact that it's refundable and
22 providing cash is really important, and \$250,000 for
23 an early stage company can actually buy them probably
24 six to nine months of run way in terms of operations.
25 And that along side of money they've raised from

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2 private investors should--will help them get to that
3 important scientific milestone. So--so the amount
4 is--and then if you sort of paired up with the State
5 tax credit you actually are given a nice--that's a
6 good amount of money for that early stage company.
7 For a middle state company it becomes less important,
8 and so I think the decision to have a cut off of the
9 number of years that you've provided and the maximum
10 number of revenue makes a lot of sense. But--and I
11 think it's, you know, so I think it's--the amount per
12 credit makes sense. For the aggregate amount I think
13 you revisit. I think that's worth revisiting. So,
14 you didn't have the full take up. So I think that's
15 say \$3 million is enough for now, but next year if
16 you get, you know, an over subscription you might
17 want to go back and revisit to see if the amount
18 needs to be raised in aggregate.

19 DR. EVA CRAMER: You know, I think part
20 of the reasons you--it all didn't get used is that
21 companies didn't know about it. So, you know--you
22 know, in our recruiting now we emphasize it, and I
23 think making it more prominent where people are aware
24 of it I think it will get used up much faster.

25

1
2 COUNCIL MEMBER GARODNICK: How do we do
3 that exactly, and this is going to be my last
4 question. It--you would think that that would be
5 part of the due diligence of any company thinking
6 about New York, thinking about starting up what
7 potential opportunities, advantages that they might
8 have. Why is that not really in the mix for them at
9 this point, and what should we as a city be doing to
10 better inform people about what's sitting out there
11 waiting for their, you know, ability to take
12 advantage?

13 MARIA GOTSCH: I would suggest outreach
14 to the--the investor community. As I mentioned there
15 are five new funds that are focused on doing early
16 stage companies--biotech companies in New York,
17 investing in them. So you could do a targeted
18 outreach to those, and we'd be happy to help you with
19 that. I think certainly where the real estate is,
20 that's a--those are gatherings of companies. So
21 there are, you know, the three or four that house
22 early stage companies to make sure that the people
23 running those facilities, and Eva has done a very
24 good job of getting the word out. But to make sure
25 that those people have the information, and that it

1
2 is made easy for the companies to--to access. As to
3 why they haven't taken it up, there--you know, these
4 companies are typically very thinly staffed. They're
5 running--working 24/7 and so, you know, it's one more
6 thing to access. It's probably not lack of interest.
7 It's just that they've got a time and capacity issue.

8 COUNCIL MEMBER GARODNICK: Okay. Well,
9 thank you very much and than--Don't go anywhere.
10 This is just my last question. I don't know if
11 anybody has questions. (laughter) Thank you for--for
12 that. I appreciate your testimony.

13 CHAIRPERSON FERRERAS-COPELAND: We've
14 been joined by Council Members Levine and Cumbo.
15 Does anybody have any questions? No. Thank you so
16 very much for your testimony today, and we're going
17 to call up our next panel.

18 FEMALE SPEAKER: The next panel will be
19 Kate Rochlin and James Moore. [pause] And also Chris
20 Marshall and I apologize for the mispronunciation.
21 Piraye Beim.

22 [pause]

23 CHAIRPERSON FERRERAS-COPELAND: [off mic]
24 Whenever you're ready, you can start.

25 DR. PIRAYE BEIM: Can you guys hear me?

CHAIRPERSON FERRERAS-COPELAND: Yes.

(background comments)

DR. PIRAYE BEIM: Can you hear me now?

CHAIRPERSON FERRERAS-COPELAND: Yes.

DR. PIRAYE BEIM: Yeah, okay great. So

my name is Dr. Piraye Beim. I am the Founder and CEO

and also the Chief Scientist at Celmatix. Celmatix

is a personalized medicine company focused on

fertility and women's health. Our products leverage

big data and genomics to help couples who are

struggling to conceive a child, understand what their

personal clinical metrics and DNA signatures say

about their fertility potential. In the coming

years, we'll bring the same personalized medicine

paradigms up stream to women earlier in their lives

so that they can proactively manage their fertility

from a young age. Most women currently make life

defining decisions about career and family based on

their age. Our products will empower them to make

these decisions based on their personal biology.

Celmatix is proud to be a leader not only in the

field of reproductive medicine, but also in

biotechnology here in New York. I'm asked by

journalists all the time how did you build a

1
2 successful biotech company despite being in New York
3 City? And in the early days of Celmatix in 2009 and
4 2010 people asked why I would try to build a biotech
5 company in New York City when at the time there were
6 many more government incentive programs across the
7 river in New Jersey, or a few hours away in Long
8 Island or Pennsylvania. The answer I gave them and I
9 give them now is that Celmatix would and has thrived
10 because of New York City not despite being in New
11 York City. New York is home to some of the world's
12 top medical and academic institutions, which is what
13 originally attracted me here as Ph.D. student while
14 at Cornell Medical College. Something that you'll
15 hear as the recurring theme here on the panel. As a
16 biotech company in New York City, we're--we've been
17 able to attract talent from these and other amazing
18 institutions inside and around New York including
19 from Cold Spring Harbor labs out in Long Island, and
20 Rutgers and Princeton in New Jersey. Being in
21 Manhattan in that way is wonderful because in a 100
22 square mile radius we really have some of the world's
23 most amazing institutions. Celmatix has provided a
24 home for talented scientists to stay and continue to
25 flourish in their careers here in New York instead of

1
2 having to go more traditional biotech hubs like
3 Boston, San Diego or San Francisco. The realities of
4 New York City have also challenged us to rethink the
5 biotech model. Plastic biotech models are capital
6 intensive, high risk and sometimes take decades to
7 produce a product much less a profit. Celmatix has
8 been trailblazing what we call biotech 2.0, a leaner
9 approach to building and scaling a biotech company or
10 we leverage shared resources such as co-working and
11 incubator spaces, Cloud computing and outsource
12 capital intensive aspects of our work such as tissue
13 cryobanking and DNA sequencing as much as we can.
14 Now, that we've reached the stage of rapid growth and
15 are bringing a laboratory test to market, we have to
16 take over our own dedicated office space. Maria had
17 mentioned this--we're now headquartered on Wall
18 Street--and build out our own lab space, and we've
19 opened a clinical laboratory in Brooklyn, and I'll
20 talk about that in a moment. But the challenges of
21 inventing--but the challenges of inventing a leaner
22 approach to biotech have also allowed us to build a
23 stronger more resilient company. With that said,
24 there's only so lean even a biotech 2.0 company can
25 be. I'm here today to share with you our gratitude to

1
2 New York City for the biotech tax credit--and it's
3 nice to actually get to meet the people who are
4 responsible for it. Thank you.--which provided us
5 with important liquidity in the early days of our
6 company that we were able to reinvest back into the
7 city in the form of jobs growth. Without this and
8 other similar incentive programs that made it
9 possible for us to make New York City our home, it is
10 much less likely that Celmatix would have been able
11 to succeed. In the difficult early years of the
12 company when I as the founder had no income and no
13 permanent home, I was encouraged by the New York City
14 Biosciences Initiative. To me, it was proof that New
15 York City was committed to creating a sustainable
16 biotechnology ecosystem here. Tax incentives and
17 incentives like this can help tip the balance for
18 early stage companies that are struggling to gain
19 traction. It certainly did for Celmatix. When I
20 founded the company in the fledgling biotech
21 ecosystem that we have in New York today did not yet
22 exist in 2009, and I had to go outside of the city to
23 find investors and training programs designed to help
24 scientists who were making the transition from
25 academia to business as I was. Today, as the local

1
2 ecosystem has grown, and thanks to the economic
3 development programs that are now in place, early
4 stage biotechnology companies no longer need to leave
5 New York to raise seed capital or learn the tools
6 that they need to launch a company.

7 In the early days of Celmatix nearby
8 states such as Jersey and Pennsylvania along with
9 other New York municipalities located in Westchester
10 and Long Island were often different incentive
11 programs for us to leave the city. It was tempting
12 to consider those opportunities, but one of the
13 things that made a meaningful impact when we were
14 just in the seed funding days were the dollars we
15 recruited from the Biotech--Biotech Tax Credit. And
16 I should mention that in the subsequent years we
17 raised \$20 million of private funding. Today,
18 Celmatix has been the steady creator of high value
19 jobs. Our average salary at Celmatix is \$115,000 a
20 year. Since our humble beginnings in a living room
21 in Tribeca in 2009, we now employ over 40 full-time
22 employees in New York City. We are currently leasing
23 10,000 square feet of office space on Wall Street,
24 and took over lab space in Brooklyn where we were
25 opening a state-of-the-art next gen sequencing

1 facility and clinical laboratory at SUNY Downstate.
2 You heard about that, and I'm happy to answer any
3 questions about how absolutely critical that has
4 been. Just side bar, it was the only option for us.
5 So I'm actually very happy to talk about that. When
6 James Leslie, our CFO and our CO spent, you know, an
7 intensive probably month and a half of his life
8 researching how could we stay in New York and build a
9 clinical laboratory in New York, he came back to me
10 and he said, there's one option. I hope this one is
11 workable, and it really was, the Biotechnology
12 Incubator and I can talk about why that was really
13 the only option for us, and right now Biobat is the
14 only option. But I do think that diversifying the
15 location is actually really important because in our
16 case because we've grown in Manhattan and our
17 workforce commutes from all over and has moved into
18 neighborhoods that make it easy for them to come to
19 work. If we move as far out as Biobat, it's not that
20 we can't do it, it's just that we would literally
21 lose headcount in doing that. And so, it was just
22 the culture and momentum of the company. So we
23 actually do need--I do agree with Maria that we need
24 more diversity with spaces like Biobat, and I also
25

1
2 agree that if we do move out to Biobab, it will be
3 substantially--a substantial resource investment to
4 build out that space. We've built out a raw space
5 already at SUNY Downstate. So we had to--we got an
6 empty room with a VWR catalog in the middle of it,
7 and it now has benches and it's about to have
8 sequencing machines. We had to pay and create an
9 incentive for a company to provide a fiber connection
10 because we needed really high speed Internet for all
11 of the genomic sequencers that were going to passing
12 to the Cloud and back. So, we're having to as a
13 company with those VC dollars meet those investments
14 to build out what's otherwise a raw space. So I
15 think once we scale that will--even if we have the
16 advantage to go to Biobab, that will--those--that
17 burden will scale as well.

18 So this year alone Celmatix employees
19 will remit over \$75,000 in New York City income taxes
20 and over \$150,000 in New York State income taxes.
21 The Biotech Tax Credit is just one important part of
22 this important environment, which has helped to make
23 it--helped make it possible for companies like
24 Celmatix to call New York City home. We are
25 encouraged by the emergence of the Biotech Ecosystem

1
2 here in New York and are proud to have been part of
3 this important growth story. Thank you for your
4 time.

5 DR. KATE ROCHLIN: Hi. My name is Dr.
6 Kate Rochlin, and I'm a co-founder and the Chief
7 Scientific Officer of the Immunovent, a New York
8 based early stage bio-venter that's focused on
9 developing and commercializing cutting edge allergy
10 diagnostic tools. And I'm going to give you perhaps
11 a slightly more early stage perspective on it, as I
12 think we're probably one of the youngest companies
13 here. Immunovent has benefitted greatly from the
14 Biotech Tax Credit, and I'm here to lend my strong
15 support for the continuation of this program through
16 the continued supporting of early stage companies and
17 to promote entrepreneurial life science ventures.
18 Immunovent was founded in 2013 based on technology
19 that was developed a Weill Cornell University. The
20 technology was originally patented by Weill Cornell,
21 and licensed exclusively to Immunovent. And the
22 company is now developing next generation needle-free
23 allergy diagnostics specifically the Landiex (sic)
24 platform. Traditionally, allergy diagnostics are
25 done by either skin prick testing, which is

1
2 uncomfortable and time consuming, or blood testing,
3 which often suffers from inaccuracies, false
4 positives and false negatives. What we've developed
5 is a test that takes a soft brush, and we just take
6 cells from the inside of your cheek, and we can
7 actually process those cells, isolate the proteins
8 your body makes when you're allergic and diagnose up
9 to 50 allergens from a single brush. We've shown
10 that our technology is actually more clinical
11 accurate, and we're able to diagnose many allergic
12 patients who are negative by traditional blood and
13 skin testing. And that rate of negative result when
14 people have allergic symptoms is almost 25%, and the
15 reason that this is so important is that allergies
16 can be treated and in many cases cured with targeted
17 immunotherapies, but in order to have access to any
18 of those treatments you have to know specifically
19 what you're allergic to. So diagnosis really becomes
20 a crucial issue.

21 As the Founder and Chief Scientific
22 Officer of Immunovent, I've seen first hand the
23 challenges facing early stage companies in New York
24 City such as finding affordable office and lab space,
25 which I think seems like a common theme here, as well

1 as the high cost of doing business in New York City.
2 As a consequence, Immunovent like so many other early
3 stage companies, considered options outside the city
4 for basing our offices. Our founders, however, were
5 committed to New York City where we work, live and
6 raise our families. In the advent of programs such
7 as the Biotech Tax Credit or Biotech Tax Credit has
8 made it feasible to remain in New York City and
9 successfully run our company. This year the tax
10 credit allowed Immunovent to receive a substantial
11 amount, which we were able to put back into the
12 company stretching our investors' money further, and
13 allowing us to move our plans forward even more
14 rapidly. Specifically, Immunovent used the majority
15 of our tax credit to hire and train new employees to
16 oversee medical affairs. The responsibilities
17 included physician outreach to create partnerships
18 for our larger scale clinical trials, as well as
19 patient outreach within the allergy community to
20 develop a more comprehensive understanding of the
21 patient's experience with allergy testing. And
22 finally, assistance in grant writing for non-dilutive
23 grant sources such as SBIR.
24

1
2 The Biotech Tax Credit has, therefore,
3 both advanced the company's goals and help create
4 jobs in New York City. I know from first hand
5 experience that Immunovent is not the only--is only
6 one of many biotech startups that have benefitted
7 greatly from this program. I also work as a senior
8 scientific advisor to Alleivate (sic), which is an
9 allergy therapeutic company, which also receives a
10 tax credit. Alleivate was able to put their credit
11 towards completion of a year-long clinical study at
12 Weill Cornell University, as well as additional
13 studies in animal models for their novel
14 therapeutics. The data from these studies will be
15 instrumental in getting their product to market, and
16 really critical in providing data to physicians who
17 are interested in using their products. I firmly
18 believe that the availability of the Biotech Tax
19 Credit provides a strong incentive for companies to
20 remain in New York City rather than to relocate to
21 less expensive areas outside the city.

22 Over my years in the biotech industry in
23 New York I've seen how the tax credit in conjunction
24 with a number of other NYC initiatives including the
25 Harlem Biospace, the Entrepreneurship Lab and the

1
2 SBIR Impact program have been instrumental in forging
3 a strong community of early stage biotech and life
4 science ventures in the city. The tax credit has
5 been essential in helping to transform New York City
6 into one of the fastest growing cities for biotech
7 and creating an environment conducive to early stage
8 life science companies. It's my sincere hope that
9 this program will be extended so that we can continue
10 to grow NYC biotech at it's earliest stages, and then
11 retain these companies in New York City creating more
12 exciting motivations in technology, jobs in the
13 industry and making New York City truly the hub of
14 biotech and bioscience. Some of the best science in
15 the country is being done at research institutes in
16 New York City, and a record number of companies have
17 been spun out of these institutes in recent years.
18 The best way to incentivize these companies is to
19 remain in New York. It's through programs such as
20 the tax credit, and the city's continued commitment
21 to building of an entrepreneurial environment in the
22 biotech arena.

23 In closing, I want to thank the committee
24 for their attention to my testimony regarding this
25 very important issue. And I truly believe that the

1 continuation of a tax credit will be extremely
2 beneficial in the continued development and
3 maintenance of the vibrant early stage life science
4 community that we strive so hard to create in New
5 York City. Thank you.

6 [pause]

7 JAMES MOORE: Okay. My name is James
8 Moore (sic). I'm (coughs) a Founder and President and
9 CEO of Biogenetics (sic) a company that (coughs) was
10 founded in 2008 to target Alzheimer's Disease going
11 after a target, which is the target that the rest of
12 the industry didn't care about and wasn't focused on.
13 Over the course of these eight years, of course,
14 we've faced numerous challenges including the
15 economic downturn, which occurred about a year after
16 we got started. And the restructuring of the
17 pharmaceutical industry, the failure of all of the
18 drugs in Alzheimer's clinical trials for the other
19 targets that we weren't focused on. And the
20 subsequent long period of time it's taken the
21 industry to retool to move to our target. So my--my--
22 -I'm glad--I just returned from the Neuroscience
23 Conference in Chicago last night. I'm happy to
24 report that our target is probably the preeminent
25

1 target for Alzheimer's Disease. We believe that our
2 long (coughs) and part of the reason why we got
3 through this longer extension of time was because of
4 programs like the New York City Biotech Tax Credit.
5 Now, during our eight years of operational history,
6 we have raised \$5 million of equity investment.
7 We've won \$4 million worth of grants. We have \$2
8 million worth of applications of grants pending, and
9 we're (coughs) currently working on a \$5 million
10 raise focused on strategic money to come into the
11 company. And (coughs) we--we've been very successful
12 at writing grants and we were both training--on the
13 training side of helping people to write grants, and
14 also on the recipient side of being in the SBIR
15 impact training, which we greatly appreciated. We
16 made a decision not to become a grant writing
17 company, but to really become an operationally and
18 commercially successful operational company. And our
19 goal is to become a cash positive company. When we
20 become a cash positive company, we're going to go off
21 into the future forever as long as we remain cash
22 positive, and that's what we're determined to do.
23 But importantly, we're also determined to put forth
24 most important drugs for Alzheimer's Disease
25

1 targeting teraligamos (sic) which we've been focused
2 on for more than 12 years, four years before we
3 founded the company in New York City. (coughs) The
4 Biotech Tax Credit has a lot of benefits for the City
5 of New York including (coughs) and should be renewed
6 including that it helps to create new jobs and
7 increase tax revenue thereby. It also enhances--and
8 let me tell you that when we create jobs we don't
9 create jobs just to have them for three or four
10 months. We create jobs to keep those jobs going off
11 into the future at all levels of educational
12 workforce (coughs) for the city. (coughs) But it
13 also takes advantage of the highly educated workforce
14 that we do have in the city. And the Biotech credit
15 helps to promote growth in new industries for the
16 city that will eventually create possibly the next
17 Pfizer, which began as a two-company operation in
18 this city and grew, as you know, to be the number one
19 biotech-pharmaceutical company in the world. So
20 that's the potential of these companies that are
21 sitting here. Even these four companies at this
22 table could be the next Pfizer that could crate
23 70,000 jobs in the city. (coughs) They benefit
24 companies like Allegameraspite (sic). As many people
25

1
2 pointed out, providing more runway, which helps to
3 stimulate investment into the company because
4 investors get a longer time to achieve the milestones
5 that Maria Gotsch was talking about. And so, all in
6 all (coughs) I think it's a program that has a lot of
7 merit, and I don't have any specific recommendations
8 for making any changes to. We benefitted from it.
9 We greatly appreciate the support that we got. We're
10 working in an important area. By the way,
11 Alzheimer's is the most costly disease, \$220 billion
12 of costs to the healthcare system per year projected
13 to go to over a trillion dollars by 2050. It's going
14 to potentially bankrupt the healthcare system. So
15 there's also long-term benefits that come out of
16 these companies that are solving various healthcare
17 related issues in terms of future costs savings. And
18 the City is certainly bearing a lot of that cost of
19 assisted living, and paying for people who can no
20 longer take care of themselves. So, we appreciate
21 greatly this help and support that we've had. It's
22 been instrumental. I--I always think in terms of,
23 you know, how do we extend our runway, and this
24 certainly has been pivotal to our company, and
25 probably even one could say well, you raised \$5

1 million, what does that smaller amount of money mean?
2 Well, that smaller amount of money means that I'm
3 sitting here with an operational company today
4 because there are plenty of times where we could have
5 run out of money, and this helped to prevent that.
6 We've never run out of money, and that's one of the
7 things that I'm proud--most proud of. We've hired
8 numerous people. Right now we're eight employees,
9 and we would like to expand. We would probably
10 expand to like three times our size if we're
11 successful at bringing in this financing realm. I
12 also agree with everyone that--the--the thing that--
13 what--what you were mentioning, the same thing that
14 you need to have space where you are because if you
15 are moving all around, eventually you're losing your
16 employees. So that having multiple locations is key,
17 but I think having such a large facility like the
18 Biobat for manufacturing jobs-- Why can't we
19 manufacture in this country? Whoever told us that
20 can't manufacture, we are a manufacturing company--
21 country and that facility is where a lot of companies
22 can do their manufacturing even if they've done their
23 technical development at places at the Audubon (sic)
24 like we have. Manufacturing can be done in Biobat.
25

1
2 So I'm looking forward to moving our company to the
3 point where we're actually manufacturing and I'd like
4 to do it in New York City, and these types of
5 programs will help to enable it. I'd be happy to
6 help the Council in the decision. If there is any
7 other information they need from us regarding the
8 specific points I brought up in my testimony and in
9 my written testimony, which covers some additional
10 points. Thank you.

11 CHAIRPERSON FERRERAS-COPELAND: [off mic]
12 Thank you.

13 CHRIS MARSHALL: Hi, my name is Chris
14 Marshall. I'm the Founder and CEO of Avatar
15 Biotechnologies and Avatar Medical. We do business
16 as Avatar Biotechnologies. We operate out of the
17 Brooklyn Army Terminal as BAT where we're a sublet
18 from the international AIDS Vaccine Initiative, and
19 we are commercializing a technology that helps
20 stabilize vaccine immunogens in the most protective
21 and effective confirmation, and thereby enhances
22 their performances. (coughs) We--we got started
23 with a Gates Foundation grant where we basically
24 started working with the International AIDS Vaccine
25 Initiative to--to design an HIV vaccine, and then

1 leverage the funding that we had from the Gates
2 Foundation into SBIR funding. And so we're not at a
3 stage where we have raised about \$6 million in grant
4 funding, and we've used the tax credits to--to bridge
5 from one stage to another, and also to fill in the
6 gaps that grants will not fund. So right now we're--
7 we're focused on a universal flu vaccine. We're
8 working on an RSV (sic) vaccine, and we're working on
9 an HIV vaccine, and we're--so the RSV vaccine is a
10 pediatric indication with potential for about \$2
11 billion in annual sales. A universal flu vaccine
12 will generate probably about the same, and an HIV
13 vaccine is very difficult to say what that would do in
14 terms of--how that would do in terms of sales. So it
15 depends on manufacturers including how much
16 protection it would provide. But I think everybody
17 could agree an HIV vaccine would be a useful thing to
18 have. So, we've basically been using these--these
19 funds that we get from the city and from the state,
20 and we also got the QTDP in 2010 from the--from the
21 IRS. We've been using these funds to fill in where
22 grant funding will not--it's, you know, there are
23 certain things that we cannot pay for with grants,
24 and one of those things for instance is patents. So,

1
2 I'm--I'm a patent agent, and so we--I--I spend a lot
3 of time focusing on broadening our patent portfolio
4 and making sure that whatever--whatever paths we're
5 taking in terms of how we're going to apply the
6 technology, that--that, you know, if that path works
7 out then so we've got our--we've got our parents in
8 places, and we can partner securely with--with
9 Pharma.(sic) But if something doesn't work out
10 exactly the way we've planned it, we need to make
11 sure that our parents portfolio is strong enough so
12 that we can go back and redevise it and still be in a
13 position to partner. And so, with the--with the
14 funds that we receive from the city, we've been able
15 to file a very broad patent portfolio, and we now
16 have a bunch of issued patents and patents pending.
17 So, I think that's--that's really the main thing that
18 we've been able to get out of this from the city. So
19 today we're shipping the--our first RSV vaccine to
20 NIH to get--to get it tested on animals. And we hope
21 to--to get the results, and if we do that, we hope
22 that--We've been in touch with many of the
23 pharmaceutical companies, the major pharmaceutical
24 companies in the world. Several have expressed a lot

1
2 of interest, and we hope to be able to bring that
3 forward. That's my testimony.

4 CHAIRPERSON FERRERAS-COPELAND: Thank you
5 very much for your testimony, and it's just very
6 exciting to see all the things that are happening
7 here in New York and with 8.4 million people, your
8 businesses will touch each one of our lives in very
9 different ways especially for, you know, young
10 professional women balancing, you know, when--what
11 direction we want our career to go in, and you're
12 right and when do we have kids, and you have them.
13 And can we have them at 40 and is it still okay, and
14 all those decisions that are made.

15 COUNCIL MEMBER CUMBO: [off mic] What
16 did they say?

17 CHAIRPERSON FERRERAS-COPELAND: Well,
18 they're (laughter) figuring it out. That's what
19 she's doing. She's figuring it out for us and we're
20 really excited, and hopefully our allergies can be
21 resolved, too, while we're at it. So I just wanted
22 to acknowledge that we've been joined by Council
23 Members Johnson, Gibson, and Rosenthal. Again, you
24 really are the leaders, and very much part of our
25 future. So we wish you much success. If you could

1
2 just tell me like the three things that you knew that
3 you needed as a start up whether it was the support
4 of other businesses like you, or what are those three
5 first things that are start up that might be watching
6 this hearing. Someone that like has a great idea and
7 wonderful intentions, but you knew that you needed
8 those three things to succeed, what would they be?'

9 DR. PIRAYE BEIM: Well, I think it's
10 pretty straightforward, I needed--I needed money. I
11 needed space, and I needed training. I was an
12 academic scientist. I did my PhD here, and thought
13 that the best way to solve the problem that I wanted
14 to solve was through a commercial venture, and a
15 start up. So I was able to benefit from a training
16 program that they had out in Long Island. Now, we
17 have a number of programs like that here in Manhattan
18 and I've mentored in some of those programs, and it
19 is so critical because in a PhD program as a
20 scientist you get trained in some of the skills of
21 entrepreneurship that you need. But one of the
22 anecdotes that I remember was when I wrote to
23 somebody I said somebody told me I need and P&L,
24 which is, you know, you guys on the Finance
25 Committee, a profit and loss statement. And I wrote

1
2 in the email P-N as in Nancy, L and somebody wrote
3 back and said, Do you mean you need and P&L? And
4 imagine that that's where I was trying to raise
5 funds, and when we got started to worked for a long
6 time out of our homes. But eventually when you start
7 to bring employees on board, you need to put them
8 somewhere. When you need a laboratory, etc. you have
9 to scale. So I think those three things are really
10 the founding and worked for us.

11 DR. KATE ROCHLIN: I just wanted to say
12 that I agree with Piraye on all of those points. The
13 other one that I'd say that was incredibly important
14 for me was mentorship, and finding somebody who's
15 gone through it before that can really stick with you
16 and help guide you and be a sounding board as you go
17 through the ups and downs of a start up because there
18 are great days and there are really tough days. And,
19 you know, it's great to share your triumphs as well
20 as well as your struggles with somebody. And there
21 are a number of programs that New York City has set
22 up. Our company went through the Entrepreneurship
23 Lab. We were actually one of the first class in the
24 Elab, and I was actually was paired with mentors
25 through that program, which is another NYC EDC

1
2 Initiative that I'm still with today that I still
3 work with today. So funding was huge for us and
4 space. We actually were are member--are a member of
5 the Harlem Bio-space and mentorship was really
6 critical.

7 JAMES MOORE: I'd say funding, space and
8 what I would want to add to that, and that's what New
9 York also really provides us is a lot of perspective.
10 So one of the things that we struggle with a lot is
11 not knowing what the rest of the world thinks. When
12 we're developing and we're sitting in our lab and
13 doing like what we're doing, but we need to talk to a
14 lot of other people and really understand what the
15 rest of the world thinks of what we're doing or would
16 think if they knew about it. And so being able to
17 get around and being--so being able to build a
18 company in New York City actually really provides for
19 a lot of that, but it's expensive. And so that
20 brings us back to finance. (laughs)

21 CHAIRPERSON FERRERAS-COPELAND: Got it.
22 I got the funds part. (laughs) Council Member--Oh,
23 I'm sorry, go ahead.

24 CHRIS MARSHALL: Well, I agree with
25 everyone in terms of what they were saying. I think

1
2 also it's key to have--you know, being located in the
3 city brings us a great workforce that enables you to
4 grow and expand. And I think also a lot can be said
5 for location that being in an accessible location. I
6 remember I did a start up--well, I worked at a
7 company B.M. Rigger (sic) in Rockland, Massachusetts,
8 and we did have--we had a--it was a great company. I
9 learned a lot, but we didn't have a lot of people
10 coming by. And then we did a start up when I was in
11 Boston right in the center of Boston, and what a
12 difference in terms of the number of people that we
13 were able to just come by and hear us--our story.
14 The same has been true in New York City that we're so
15 accessible, so easy for people to get to us. I think
16 that's a vital ingredient, and I think having the
17 space all over the city helps to enable that. And
18 companies grow and need various types of space as
19 they grow, and some companies are virtual initially,
20 and only need office space, and can be incubated just
21 with that virtual company in that office space. And
22 then some companies have laboratory space like we do,
23 and then manufacturing space. So I think, you know,
24 the city having that kind of oversight coupled with
25 these kinds of programs to provide space. Because

1
2 there are certainly a lot of space where these types
3 of incubators and growing areas for companies can be
4 implemented. And so I applaud putting these
5 incubators into Harlem. I think that's a great
6 opportunity for the residents who live there to find
7 jobs, and it brings a lot of money into those
8 neighborhood and also in Brooklyn. And to take over
9 infrastructure that maybe was underutilized or not
10 utilized at all to apply it. So, those are the
11 ingredients, and also I might add good accounting
12 support for a young company like you mentioned to
13 guide them because in the end that's what it's all
14 about, can you get the cash flow positive. And I
15 think that's--that's--you have to build a best
16 practices business to do that so--

17 CHAIRPERSON FERRERAS-COPELAND: All
18 right, thank you very much. Council Member Cumbo.

19 COUNCIL MEMBER CUMBO: Thank you so much,
20 Chair Ferreras-Copeland, and I wanted to congratulate
21 you all on all the work that you're doing here today.
22 I'm also the Chair of the Women's Issue Committee.
23 So it's really dynamic to see women at the table in
24 this particular industry. Wanted to ask you briefly
25 if you all could just talk about the amount of jobs

1
2 that you've created in your company, and
3 approximately how many people are in each firm, and
4 what are the salary ranges for those particular
5 positions?

6 DR. PIRAYE BEIM: So one thing I'll
7 especially because the topic of diversity came up is
8 as female founder I get asked all the time about the
9 barriers and the difficulties, and I actually had one
10 journalist interview last week where they said I want
11 to hear about the unique challenges of being a female
12 founder of a biotech company in New York City
13 (laughs) I said okay, you don't see many people to
14 talk to then, but let's talk about that. And what I
15 would say is that for us, and what I said to the
16 journalist is that I think that there are serious
17 barriers to entry in a lot of the difficulties.
18 Celmatix's story had been one of diversity. We have
19 women from--You know, I'm the CEO of the company--
20 from the highest paying jobs of the company, which is
21 not mine to the lowest paying jobs of the company,
22 women across the board, every single department of
23 the company including programmers are the company are
24 female women of color we have at the company. So,
25 we've been very, very lucky to have such a diverse

1 team. I think it's part of what again when I talk
2 about the--we succeeded because of New York City not
3 despite New York City. I think being able to have
4 that diversity here has been one of the things that
5 has been so amazing for New York. We have--we made
6 six job offers in the last couple of weeks, so I've
7 probably run out of--it will be 45 now? Yeah, so
8 we've got 45 people now, and I think the lowest
9 salary of the company is \$72--(laughs) So the lowest
10 is \$72 and the highest is well into the--(background
11 comments, laughter) Yeah, no, I'm kidding. It's
12 actually not that. The highest is a market rate for
13 an executive in biotech, which is well into the six
14 figures. We have had to pay--so I think some of it--
15 there as a statistic earlier that the average job or
16 the average salary for a company like ours is around
17 \$80,000. That's not the case for Celmatix. The
18 average is \$115,000. One of the reasons is that
19 Celmatix, part of being biotech 2.0 a new trend in
20 healthcare, and New York City is really I think at
21 the forefront of this is the hybrid biotech tech
22 company. So we hire a lot of programmers, and we
23 compete for data scientists because we do big dat.
24 We're competing with Citi Bank and Google and large
25

1
2 companies that can offer huge bonuses, and incentive
3 packages and 401(k) matches and things like that.

4 So, for Celmatix where we really are no the edge of
5 information technology as well as the laboratory
6 science, the job market is--it's very competitive.

7 And so we have to pay competitive salaries to be able
8 to get and keep those jobs. And now, that we're out
9 in Brooklyn, the tax credits and being out in
10 Brooklyn have been hugely helpful to us because we
11 able to actually on a--on an actual-- The amount of
12 dollars we spend pay submarket (sic) because they get
13 the tax relief, and they don't have to pay the
14 employee taxes and we don't owe the employment taxes
15 on those people for New York and state, and that's
16 been really, really critical for us.

17 COUNCIL MEMBER CUMBO: Thank you.

18 DR. PIRAYE BEIM: Yeah.

19 COUNCIL MEMBER CUMBO: Thank you.

20 DR. KATE ROCHLIN: Hi, I have to say it's
21 really exciting to be up here with a fellow woman
22 founder, and who really actually led the way for me.
23 Piraye was several years ahead of me in the same
24 graduate program. So, a role model kind of all the
25 way.

1
2 COUNCIL MEMBER CUMBO: But it is--it is a
3 challenge. I've been mistaken for my own assistant
4 several times, which is always a little bit of a
5 shock when people ask when Dr. Rochlin is arriving
6 and they ask me. But I'd say overall the environment
7 here has been incredibly supportive. It's been
8 really amazing that you go to all of these networking
9 events. You meet great people. I feel like they've
10 really welcomed you into the community. So it can
11 feel like an initial barrier, but I feel like the
12 life sciences community here is really that, it's a
13 community. And so you run into the same people all
14 the time. You really get to know these people. They
15 get to know your company and they follow where you
16 are. So, I'd say that while initially it can be very
17 daunting, I think once you're in it, New York has
18 done a lot to foster this community atmosphere, which
19 is fantastic. And I think that's something that's
20 very new to New York biotech. For us, we're a much
21 smaller company so we just hired our most recent
22 employees and that put us at five. And that's been
23 really exciting for us to grow. We're stepping into
24 our larger clinical trials. I think we're going to
25 grow more. Our average salary since we're much

1
2 smaller and we're kind of trying to run on a lower
3 cash flow between \$70 and \$90--

4 COUNCIL MEMBER CUMBO: [interposing] Uh-
5 huh.

6 DR. KATE ROCHLIN: --depending on the
7 role, but we like to think that we're right there
8 that we offer a lot of benefits, and offer just a
9 really great supportive working environment, and a
10 lot of things, you know. And also we offer a chance
11 to own a part of the company and to grow with the
12 company as people take on larger roles. And we think
13 that that's important to people who are invested in
14 what they're trying to create. So that's something
15 that's been big for us.

16 COUNCIL MEMBER CUMBO: Thank you. You
17 gentlemen want to--

18 JAMES MOORE: Yes, Right now we have
19 eight employees and we have--what I'm most proud of
20 is we have an employee who we hired from the
21 neighborhood. We're in Washington Heights, and she--
22 she started probably at about \$36,000 and we're
23 paying her \$45,000 now. Importantly she has a good
24 benefits package including an equity package. The
25 reason why we hired her was I thought it was

1
2 important to connect to the neighborhood where the
3 company was, and she would be the way to do it. She
4 came along, you know, answering a job ad, but it was
5 I thought a great opportunity for us. And also, we
6 trained her to do a lot of our purification, work
7 that similar scientists really would not--we would
8 tend to get bored doing. And it's been really good
9 for her because she's received a lot of training and
10 really elevated her own professional career, and has
11 contributed very consistently in that position that
12 we hired her in. Now, as I mentioned, we have equity
13 that we use, and we try to keep salaries very low.
14 Let me tell you that's how you maintain. So as much
15 as I make a package that includes equity, the better.
16 So I'm proud to say that we have as retain counsel
17 Paul Ginsberg who was the head of Pfizer's Patent
18 Office. They were only paying him with equity, for
19 instance, and that's what he preferred, but we
20 believe equity to be worth quite a lot because a
21 pretty successful company like us could be worth in
22 excess of a billion dollars. In fact, iPierian,
23 which was sold to Bristol-Myers, which was a
24 California company with one antibody was sold for
25 \$155 million cash. We have two antibody platforms as

1 well as two small molecule platforms. So we're
2 probably worth much more than them as long as we can
3 reach those important milestones that can--

4 COUNCIL MEMBER CUMBO: One City Safe and
5 Fair Everywhere How many--how many people would you
6 say are part of the firm now?

7 JAMES MOORE: Eight.

8 COUNCIL MEMBER CUMBO: Eight?

9 JAMES MOORE: Well, directly eight on
10 salary--

11 COUNCIL MEMBER CUMBO: Okay, and the
12 other?

13 JAMES MOORE: --and part-time salary. We
14 have another four or five who are not on salary, but
15 just getting equity from the company.

16 COUNCIL MEMBER CUMBO: Thank you.

17 CHRIS MARSHALL: We're a little top heavy
18 so we're five PhDs. (coughs) and two technicians. If
19 I remember correctly, I think--I think everybody at
20 the PhD level is between 70 and 100 and the
21 technicians are just shy of 50. One of them is 44
22 and one is 46 I think.

23 COUNCIL MEMBER CUMBO: And one of the
24 things I think is great about this is that it's an
25

1 industry that is growing in the city that's certainly
2 going to continue to be able to grow and develop and
3 create jobs, which I think is phenomenal. Today in
4 the--at 1 o'clock there will be a hearing today on
5 MWBE participation, and it's going to talk about in
6 many ways how firms that either have contracts with
7 the city or receive tax incentives and benefits and
8 that sort of thing to be able to report what their
9 MWBE requirements are and who's on their board, who's
10 on their staff, and who their employees are. So the
11 question is also because I hear a lot and I represent
12 Brooklyn, Fort Greene, Clinton Hill, Prospect
13 Heights, Crown Heights and Bed-Stuy, and I also hear
14 a lot about Harlem. So in terms of where you're
15 relocating and that sort of thing, my concern is that
16 as these businesses continue to grow, are you
17 reaching out in a very real and tangible way to
18 connecting with the African-American and Latino
19 communities, particularly where you're doing business
20 in terms of CUNY institutions such as in my district
21 at Medgar Evers College. Also, we have several high
22 schools in the area such as Benjamin Banneker,
23 Brooklyn Tech. Are there any ways that you are
24 recruiting to make sure that this is an industry that
25

1
2 is diverse? Because a lot of the testimony that I
3 ready said that you're recruiting from other stats.
4 So when other states come into communities like
5 Harlem and Brooklyn, you know, when we--when we in
6 our--in our world when we see those advertisement for
7 who's paying \$2,500 and \$3,000 for an apartment, in
8 our mind we can't even compute who is able to pay
9 that. But there are a lot of industries that people
10 aren't aware of that are growing in our community.
11 And if we continue not to educate and connect the
12 existing community to these industries, they will be
13 pushed out for a workforce that can come into the
14 community, gain those jobs, and be able to pay a
15 higher premium for rent and those sorts of things.

16 DR. PIRAYE BEIM: So one thing I was
17 really proud of and I take no credit for this other
18 than just putting together the right group of people,
19 but the women and including one woman of color who
20 are programmers and data scientists at our company,
21 she hosted an event for young women, and invited them
22 into the company. And I walked in one day, and there
23 were just all these young women of color in the
24 office, and I said, Oh, you know, what's going on and
25 they just organically invited them in, showed them

1
2 under the hood of what they were doing. We have an
3 active internship program. We've mentored a number
4 of local high school children across different
5 ethnicities, races and genders. And I'm proud to say
6 that all those young people have gotten into the
7 college they wanted to and gotten into med school if
8 that was their dream, and been inspired not only to
9 pursue science and technology careers, but
10 specifically to build a biotech company in New York
11 one day.

12 COUNCIL MEMBER CUMBO: Uh-huh.

13 DR. PIRAYE BEIM: Because that was very
14 fun for them. So, I've been personally very
15 committed to this when I first came to New York. One
16 of the reasons that I came here is when I was
17 interviewing for graduate school in Baltimore, Johns
18 Hopkins Medical School, and I was asking about, you
19 know, what are the outreach programs for the local
20 community here because I see a lot of urban decay--

21 COUNCIL MEMBER CUMBO: [interposing] Uh-
22 huh.

23 DR. PIRAYE BEIM: --as I'm driving
24 around. Obviously, Johns Hopkins has a great medical
25 school. But what are you doing to really enrich the

1
2 community. And I'm not saying that Johns Hopkins
3 doesn't have programs, but just a group of people I
4 had spoken to didn't have a good answer. And when I
5 was at Weill Cornell, there were answers to that
6 question. It was well, we have an AIDS awareness
7 class that we all teach in Harlem, and you can mentor
8 and tutor the children of the janitorial staff in
9 science and math after school. And so, I
10 participated in those programs and they inspired me--

11 COUNCIL MEMBER CUMBO: Uh-huh.

12 DR. KATE ROCHLIN: --and really enriched
13 my experience in New York as well, and gave me those
14 meaningful moments that I look back on in my graduate
15 career. One of the challenges is a company like
16 Celmatix we such highly technical jobs--

17 COUNCIL MEMBER CUMBO: [interposing] Uh-
18 huh.

19 DR. PIRAYE BEIM: --that are higher
20 income, that do require that we reach outside of New
21 York. Sometimes we can hire for capabilities, and
22 we've done that a number of times. So we've been
23 able to repurpose a number of people from the
24 publishing industry, the media industry, finance,
25 design, the other industries that New York has

1
2 traditionally been known for. We've actually been
3 able to bring them in because they're so excited that
4 their design skills or programming skills or
5 financial skills could help a mission driven
6 organization like us to really promote women's
7 empowerment and better insight, and better creating
8 (sic) for couples who are struggling to conceive.
9 And so we've been able to do that, but we do have to
10 get to a stage where we have the diversity of roles
11 with the company that we can start to reach out to
12 the local community. I think being in Brooklyn is
13 going to be great for us.

14 COUNCIL MEMBER CUMBO: Uh-huh.

15 DR. PIRAYE BEIM: You know, we're going
16 to be--we're going to be having lunch in the
17 neighborhood. If we--if we need to build we were
18 talking about if--if our, we hope, if we hit it out
19 of the ballpark and we're suddenly getting more
20 samples than we can handle locally on site. One of
21 the arguments we made to our investors about why SUNY
22 would be a great place to locate our incubator is if
23 suddenly overnight, we need to expand, there's a lot
24 of potential warehouse space in the neighborhood.
25 And we'd be doing that organically going out to a

1
2 neighborhood. We'd have to hire in a neighborhood,
3 et cetera.

4 COUNCIL MEMBER CUMBO: Uh-huh.

5 DR. PIRAYE BEIM: So I look forward to
6 hopefully in a year or year and a half telling you--
7 giving you a much better track record of reaching out
8 and making sure that we're also employing the people
9 who are here, and not just kind of bringing outside
10 people in at high wage levels. But it's process and
11 it's an ecosystem, and I think to his point about,
12 you know, the next Pfizer or the next Genentech maybe
13 being here is when we grow up in these neighborhoods
14 it is going to end up impacting. I do think that
15 once a company gets to a certain scale it's not just
16 all high tech jobs at that point, right. But I think
17 helping us get to that point where we can start to
18 employ people and reach out to the communities and do
19 all these things is really important.

20 DR. KATE ROCHLIN: I wanted to add to
21 that. We're earlier stage so I mean out of the five
22 of us we're two women and three men. But what's
23 actually been great is being at the Harlem Biospace.
24 They're connected to the Harlem community, and so we
25 have had panels of high school students come in that

1 we've spoken to, and through that I think what we do
2 with our allergies is very tangible for people. It's
3 very easy to understand, and what's been fantastic
4 about that is I got so many of the students were
5 interested in allergies and biotech that I've
6 actually gone out and I speak at a number of high
7 schools both in Harlem and actually in the Bronx now.
8 And now we've done small group discussions to help
9 these students who are high school level understand,
10 you know, what are the questions you ask when you
11 want to start a company? How do you understand the
12 science? How does that translate into a company?
13 What steps do you have to take to be a scientist?
14 What steps do you have to take to work at a company?
15 And although I've spoken at a number of schools, the
16 one that has the deepest impact on me personally was
17 a school that was actually four immigrant women who
18 were non-English as their first language and often
19 times had no access to elementary education in the
20 countries that they came from. And so the school
21 actually took women who are of the age from 15 all
22 the way up until 25, and it was a high school
23 curriculum. And so a lot of them didn't even
24 understand, you know, initially the vocabulary for
25

1
2 biotech, how you would describe a company. And they
3 were one of the most enthusiastic groups of students
4 that I've had that emailed me afterwards that had
5 follow-up questions. I brought a lot of them into
6 the lab to kind of see what we do, to see what we
7 need when we talk about doing experiments. And
8 really, the level of excitement that you see in
9 people that even had no elementary education. And
10 really trying to give them the tools to get excited
11 about this was really impactful to me. And so I
12 think that, you know, we've had interns from some of
13 these schools that have come in. We've worked with
14 some of these students after school, and I think that
15 that's been an amazing thing about being in Harlem
16 and really close to the Bronx for all of us.

17 COUNCIL MEMBER CUMBO: Okay.

18 JAMES MOORE: (coughs) I just wanted to
19 add a few things. I think these are great point.
20 We--I wanted to point out that I actually got my
21 start at Hunter College. So I wasn't a student
22 there. That's where I got my first job, and I worked
23 for Rifka Radner (sp?) and Peter Lipky (sp?). Peter
24 Lipky is I think in SUNY Downstate right now. Rifka
25 Radner is retired, but she was somebody who trained

1
2 in Chargaff's lab, and Chargaff was instrumental in
3 the structure of DNA, but Watson (sic) encrypted it
4 together. But when I joined there the reason why I
5 took two years and worked at Hunter was because they
6 were doing really cutting edge microbiology in
7 protein biochemistry. So we've always used Hunter as
8 a resource for employees. We've had probably five
9 Hunter interns. We've had two Hunter employees. I
10 just coming back from neuroscience on the plane I met
11 two Hunter graduate students who invited me to come
12 and give a seminar, which I'm going to do in their
13 journal club. So this is a great resource, and I
14 think the more you can simulate it--I understand what
15 you're talking about. There's a lot of talent there,
16 and, you know, you bring it into these companies, and
17 it's a real benefit, and you don't have to go looking
18 in California to bring great people into a company.
19 There's lots of people right here. So because I came
20 out of Hunter, then when I got a resume, I was like
21 whoops, let me look at this resume a little more
22 closely. That's my unbiasesness, but it's been really
23 productive for us, and one of our key research
24 associates came from Hunter, and that enabled-- You
25 know, her work has been so pivotal to getting one of

1
2 our Sloan Medical programs going, I can't tell you.
3 So there's a lot of talented people and, you know,
4 that's part of what the city brings to all of us, all
5 of these companies.

6 COUNCIL MEMBER CUMBO: Thank you.

7 JAMES MOORE: Thank you.

8 COUNCIL MEMBER CUMBO: This gentleman just
9 wanted to add something, and then I just wanted to
10 conclude.

11 CHRIS MARSHALL: Okay, so I just wanted
12 to say that we're at a stage where the--when we bring
13 somebody into the company they're sort of like
14 bringing their own asset to the company. So we--we
15 hire--as I said, we've very top heavy, and we hire
16 people who--who already have been working on a
17 particular project. That being said, so we can't
18 really--we don't really look at anything other than
19 what they've been working at--working on before. We
20 have ended up bringing a bunch of people together who
21 were primarily based in New York before. Not all of
22 them, but most of us were based in New York. I did
23 my PhD at Rockefeller. My partner also did his PhD
24 at Rockefeller, and one of our flu person was at Mt.
25 Sinai and came out of SUNY. We have another post-doc

1
2 at SUNY Downstate. So we do have a--we have a lot of
3 people who are coming out of New York, but we can't
4 really look at that right now at this stage of our
5 company.

6 COUNCIL MEMBER CUMBO: I just wanted to
7 thank you all for your answers, and it's very good to
8 hear that you all are doing work in the way of
9 diversifying the industry, particularly as it
10 pertains to African-American and Latinos. When we
11 look at neighborhoods like Harlem and Brooklyn, and
12 really the city of New York, African-Americans and
13 Latinos make up a little over half of city's
14 population. So it's important that when we're
15 receiving these tax benefits and that sort of thing
16 that there--there comes a certain responsibility with
17 it that we are supposed to be able to work towards
18 the benefit of all New Yorkers. And so that--those
19 different industries are reflective of that. So I
20 just wanted to conclude that it seems like you all
21 are doing a lot of great work. I'm gathering from
22 your answers the Black and Latino representation
23 within your industry and your prospective companies
24 is not necessarily where it should be at this time.
25 I'm hoping that you all will continue to do the work

1
2 that you're going to do. Because I know that you all
3 have to be back here sometime in 2017 to advocate for
4 a further extension of this tax credit. And it would
5 be very important that when coming back the next time
6 that we're able to report on a lot of the successes
7 and gains of the educational and recruitment work
8 that you've been doing. So I hope to see a lot of
9 that moving forward.

10 JAMES MOORE: I should mention that we
11 had one African-American who worked for us our first
12 few years. We had someone from the Dominican
13 Republic who would probably be considered African-
14 American here. And then we've always been about half
15 Latino. So it's a great resource and I agree 100%
16 with what you're saying.

17 COUNCIL MEMBER CUMBO: Because the best
18 companies are diverse companies--

19 JAMES MOORE: [interposing] Right.

20 COUNCIL MEMBER CUMBO: --and let us show
21 that.

22 JAMES MOORE: I applaud, you know, the
23 women, you know, directive businesses.

24 COUNCIL MEMBER CUMBO: [interposing]
25 That's critical.

1
2 JAMES MOORE: That's a--that's a critical
3 thing for us going forward and really tapping into
4 everything, and we're proud to see that.

5 DR. PIRAYE BEIM: And we do have women of
6 color including Latinos at our--at our company as
7 well.

8 COUNCIL MEMBER CUMBO: Well, that's
9 fantastic.

10 DR. KATE ROCHLIN: We have woman at my
11 company that is African-American.

12 CHRIS MARSHALL: And we--we--I didn't
13 mention that we have some--

14 COUNCIL MEMBER CUMBO: [interposing] And
15 we're talking about, you know, we can say stuff like
16 40% or 50%. We're trying to get there.

17 DR. PIRAYE BEIM: Yeah.

18 COUNCIL MEMBER CUMBO: I get that we have
19 one or two here and there. That's great in small
20 companies. I get it, but, you know, moving forward
21 it's--You know, I always reflect here in the City
22 Council, you know, Dan Garodnick of Italian and
23 Jewish heritage; Ferreras-Copeland Dominican; Daneek
24 Miller, Puerto Rican and African-American; myself
25 African-American; Helen Rosenthal, Jewish. Like

1
2 that's kind of the diversity that we want to get into
3 seeing in all of our industries. And it's really
4 only when the people vote for what they want do you
5 get that level of diversity. So if we don't make
6 decisions to be inclusive, we're making the decision
7 to be exclusive. So we've got to make that a part of
8 our goal and priority. We want to develop our
9 companies, but we also want them to reflect the City
10 of New York as best we can. So I applaud your work.
11 You're doing awesome work. I look forward to hearing
12 more about having children after 40, and I will see
13 you at the Mets game.

14 DR. PIRAYE BEIM: Get out there. (sic)

15 COUNCIL MEMBER CUMBO: (laughs) Okay.

16 DR. PIRAYE BEIM: Thank you.

17 COUNCIL MEMBER MILLER: I'm Council
18 Member--Okay, I'm Council Member Daneek Miller and I
19 thank you so much for--I have no questions, but thank
20 you so much for your testimony, and I'm sitting in
21 for our chair Ferreras-Copeland. And I would like to
22 call the next panel. The next panel is Jeffrey Wang.

23 [pause]

24 JEFFREY WANG: I pushed the button.

25 With--with apologies to council members here, I

1
2 didn't fill out a slip. So I wasn't called to the
3 preceding panel. My fault.

4 COUNCIL MEMBER MILLER: That's okay.
5 You're here now so--

6 JEFFREY WANG: So, I provided my written
7 testimony, but I think that rather than, you know,
8 just give another example because I think that the
9 four examples given are quite representative. I
10 thought I should give my perspective on the tax
11 program, and a little bit about myself and how we run
12 the company to Council Member Cumbo's, you know,
13 questions. So I'm a born and raised New York City
14 person. I was born in Fordham Road--I was born in
15 Manhattan, raised in Fordham Road in the Bronx. I
16 went through public high school--public school in New
17 York City. I've worked my entire career in New York
18 City. So, I consider myself lucky to be successful.
19 I also consider myself to be a representative of a
20 subgroup of New York City people so Asians in general
21 who have managed over time with hard work and a
22 little bit of luck and a lot of support to break the
23 so called bamboo ceiling. So when it comes to things
24 like why am I here to testify about the benefits of
25 the Biotechnology Tax Credit, I've used up three

1
2 years of credits. There's nothing--there's no
3 advantage for me to come here and talk about
4 something I'm not going to get a benefit for my
5 company. But, you know, through--through Paul's
6 work, you know, the previous council member, council
7 person, Council Member Garodnick's leadership, we've
8 clearly benefitted, and the examples are in the
9 staff. You know, we--we came to New York because we
10 were aware--New York City because we were aware of
11 the New York City Tax Credit Program. We were
12 solicited to go back to Florida from where the
13 company started, but again, the package of benefits
14 offered by New York City, New York State beat out our
15 going back to Florida. We received tax credits in--
16 for tax years '11, '12, '13. So they come early the
17 following year, and I could say in the first year we
18 received a credit. Times were tough, as people
19 described, but we were able to keep some jobs rather
20 than further reduce the workforce. So that's what
21 the money primarily goes for is to pay salary and
22 wages.

23 The following year 2013, we didn't have
24 money to make payroll--to make payroll, but the
25 credit check came, and so we were able to make

1 payroll. So you're talking about tangible benefits
2 for the tax credit. When it comes, it comes in a
3 check, it comes in the mail and just somebody opens
4 the mail and everybody gets excited and runs to the
5 bank to deposit it. It's very important when you
6 think about what funds are used for, mainly salary
7 and wages. Things turned around for us. So when we
8 received our 2013 check in 2014, we had already
9 consummated an important transaction with a big
10 pharmaceutical company. What were those funds used
11 for? It allowed us to add three technicians to our
12 staff. They were all minorities. They were all
13 resident in new York City already, and they all lived
14 either in Brooklyn or Queens. We didn't have to look
15 very hard. So to Council Member Cumbo's question, I
16 think I'd like to add most of our workforce are
17 minorities, resident in Brooklyn and Queens already.
18 We didn't have to look very hard to recruit them.
19 They could be graduates of St. John's. They could be
20 graduates of Brooklyn Poly. We didn't have to look
21 very hard. So if there's a myth that there are no
22 women available, and women of color unavailable in
23 the research world, I could say from my single
24 perspective that's just not true. In fact, I would
25

1
2 say we have a hard time locating qualified white men
3 if that's the counterpoint for those positions.
4 These are entry level positions by and larger or a
5 couple of years of experience. Our salary range to
6 another person's question is--the last two people we
7 hired one was African-American. She came in at
8 \$40,0000 as an administrative assistant having
9 previously worked for Cable Vision in Brooklyn as
10 customer service representative. Okay. The other
11 person we hired into clinical operations is of Latin-
12 -Latin descent I believe and she--she lives in the
13 Bronx. She didn't have a job after graduating from
14 college. Somebody referred her to us, and she was
15 hired in at \$45,000. In the first year, given their
16 performance, they'll be working--we're confident that
17 they will perform, they receive a \$5,000 salary
18 increase six months into their tenure. So, you know,
19 as someone who grew up New York City, who's a person
20 of color, I absolutely believe in the closing
21 statement of Council Member Cumbo: If you don't want
22 it to happen, it's not going to happen. So, I would
23 challenge all of my counterparts here to think hard
24 about how you recruit and retain residents of New
25 York City. If you just start there, you're going to

1
2 get by definition a rainbow of candidates. If you
3 don't want it to happen, I've learned from my
4 experience it isn't going to happen.

5 So part of the other reason I'm here I
6 just want to say a little advertisement for Dr.
7 Cramer and the real estate development. It's not
8 everybody's first choice to move to Sunset Park in
9 Brooklyn. We're moving to Sunset Park in Brooklyn
10 because Dr. Cramer provided incubator space for us at
11 Downstate at a critical time. And I've told her this
12 and I've told other people this, for me to repay her
13 support over time we are moving to the new phase 2 at
14 the Brooklyn Army Terminal. We don't have to go
15 there. We could go somewhere else presumably, but
16 it's a bit of payback. Similarly, you know, we will
17 be applying some of our investor's money to help
18 encourage future scientific leaders. And Dr. Cramer
19 has asked me to join her board so that we can help
20 continue to grow the biotech business in New York.
21 So thank you and--

22 COUNCIL MEMBER MILLER: [interposing]

23 Thank you.

24 DR. JEFFREY WANG: --we've greatly
25 benefitted and--and we think that the retention of

1
2 this type of program with the extension of three
3 years is very important.

4 COUNCIL MEMBER MILLER: Thank you so
5 much, Mr. Wang for your testimony, and thank everyone
6 else for coming out. And because I've been asked to
7 sit in, I'm going to take a privilege and say that
8 anyone who's looking for space, should entertain
9 Downtown Jamaica, which is the area that I represent.
10 Jamaica is certainly booming, and there is an
11 opportunity for Start Up New York right there at York
12 College. So pass the word along, and I think this is
13 great, and we look forward to moving it. And with
14 that, ah, I welcome Council Member Rodriguez here,
15 and with that being said, I call this meeting
16 adjourned. [gavel]

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date November 5, 2015