

LES 2021 ANNUAL MEETING Reimagining the Future

The State of Licensing in the Life Science Industry – A Global View

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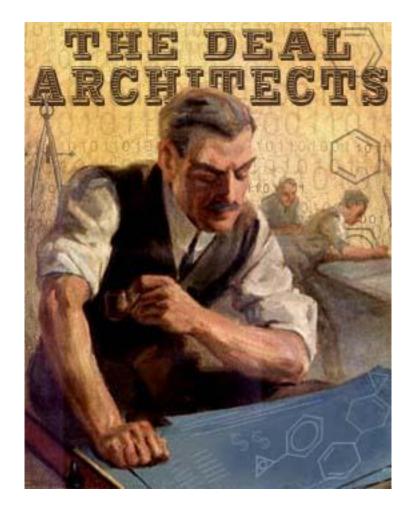
The State of Licensing in the Life Science Industry – A Global View

- ☐ Lessons from "Deals of Distinction" Nominees
- ☐ IPO Class of 2013 to 2021 New Kids on the Block
- ☐ Life Science Acquisitions The Attraction of Scale
- ☐ Greater China Alliances Changing the BD&L Game





Life Science Licensing: Lessons from "Deals of Distinction"



For several years BioSci has assembled top biopharma alliances for consideration as the LES "Deal of Distinction" in Life Sciences

Criteria for Deal Nomination:

- Signed within year to 6/30
- \$50M+ in Total Deal Size
- No Acquisition/Asset Deals

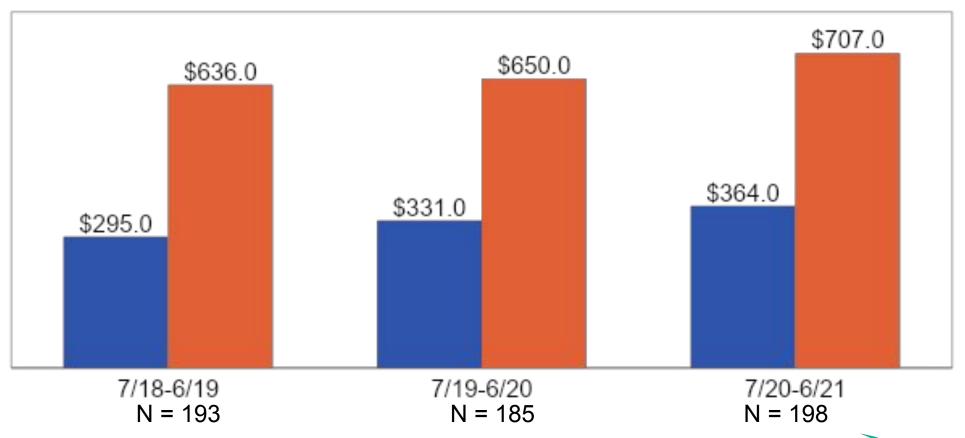




Approximately 200 Life Science Deals Each Year Were Considered for "Deals of Distinction" Award

Total Deal Size by Year of Signing (\$M)

■Median ■Average



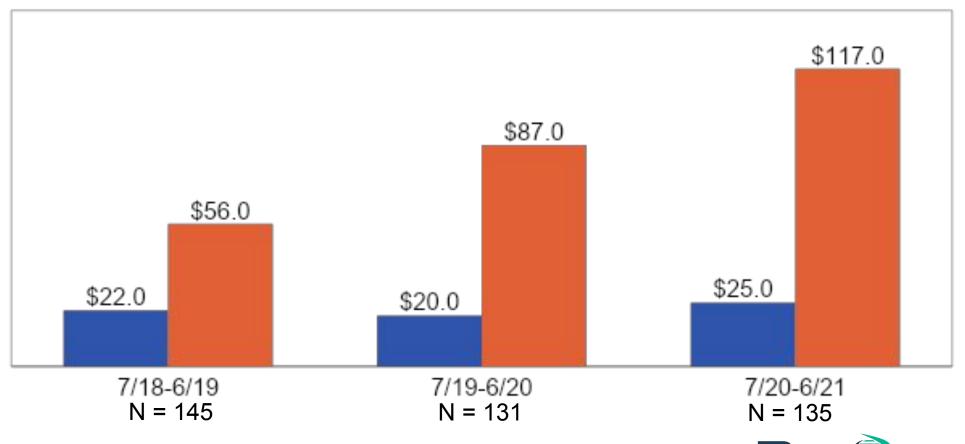




Average Upfront Payments Have Roughly Doubled Over the Past Three Years, While Median are Stable

Upfront Payment by Year of Signing (\$M)

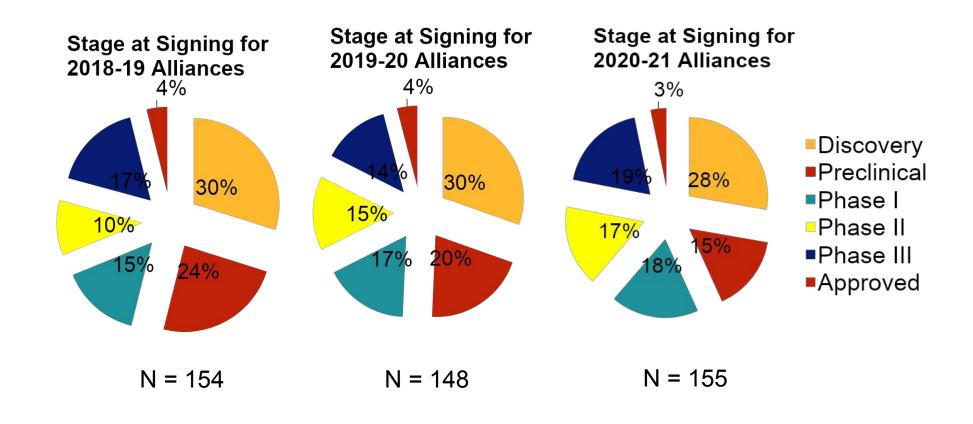
■Median ■Average







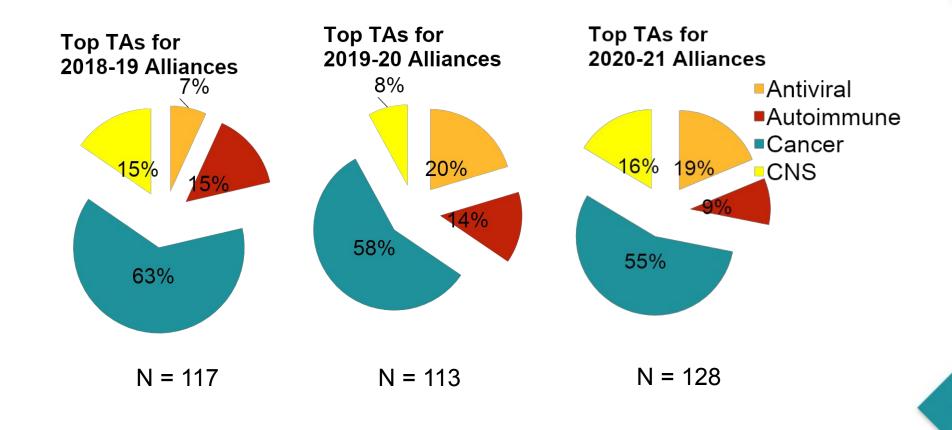
Stage at Signing is Later for Recent Alliances, With Fewer Preclinical Deals & More at Phase II & III







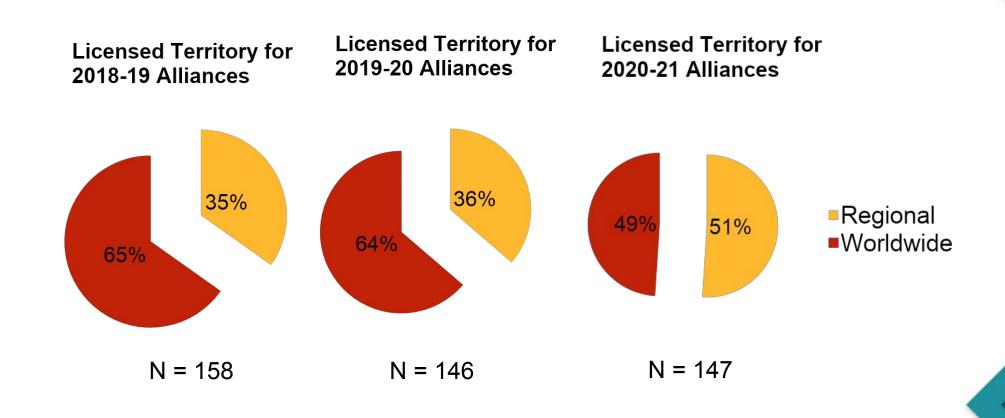
Cancer Remains the Dominant Therapeutic Area, But Antiviral Alliances Have Moved Up to 2nd Place







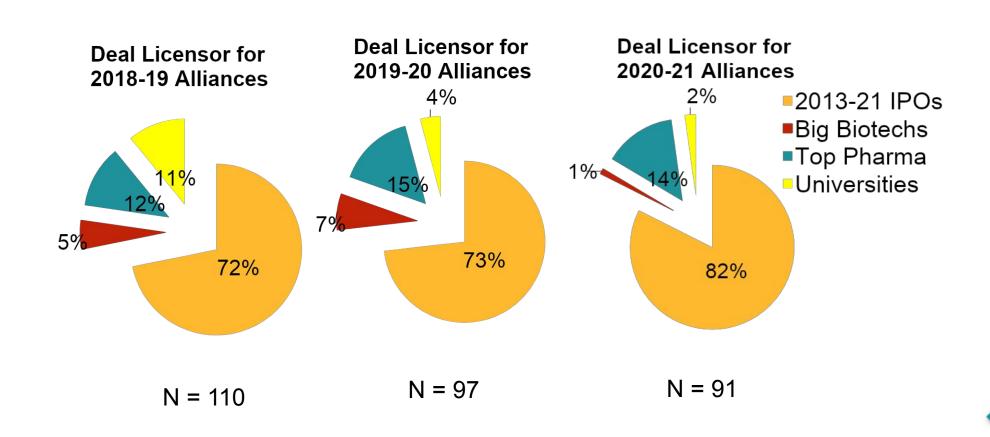
This Past Year Saw a Significant Jump in Regional Alliances Versus Worldwide Deals







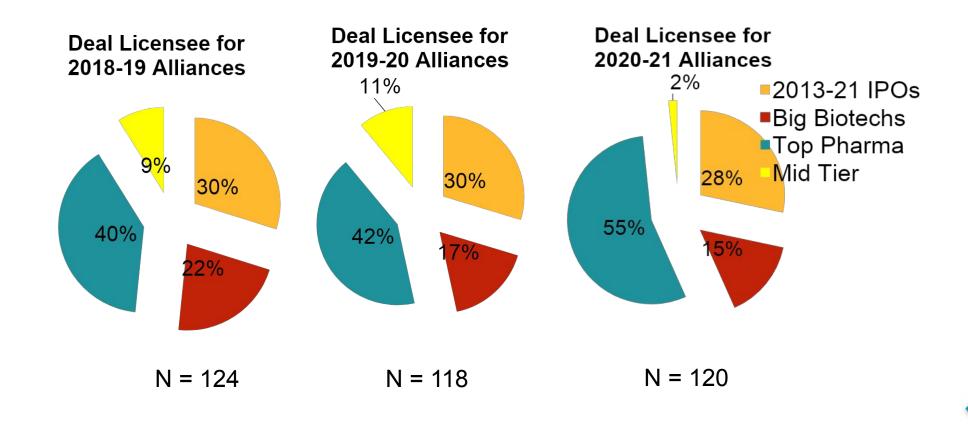
Biotech Companies in the IPO Class of 2013 to 2021 Have Been the Dominant Licensors Over the Past Three Years







Biotech Companies in the IPO Class of 2013 to 2021 Have Also Taken 2nd Place Behind Top Pharma as Licensee







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- ☐ Lessons from "Deals of Distinction" Nominees
 - Total Deal Size is on an Average & Median Basis
 - Upfront Payments are on an Average Basis
 - Preclinical Deals and Phase II & III are —

 - Regional Deals
 —in Past Year, Ending Worldwide Edge
 - IPO Class of 2013-21 is Dominant Deal Licensor
 - Top Pharma is Dominant Licensee, then IPO Class next
- □IPO Class of 2013 to 2021 New Kids on the Block
- ☐ Life Science Acquisitions The Attraction of Scale





New Kids on the Block: Why the IPO Class of 2013-21 Matters

- ☐ Approximately 1000 Life Science Companies are Currently Publicly Traded on US Stock Exchanges:
 - IPO Class of 2013-21 (60%)
 - Non-US Companies Cross-Listing (10%)
 - All Other Life Science Companies (30%)
- ☐ From January 2013 thru June 2021, 568 Life Science Companies Have:
 - Raised \$70.7B in IPO Proceeds
 - Posted \$370B in Post-IPO Market Capitalization





Recent Life Science IPOs Show No Sign Of Ending the 8+ Year Financing Window

IPO Proceeds by Year of IPO (\$M)

■Median ■Average

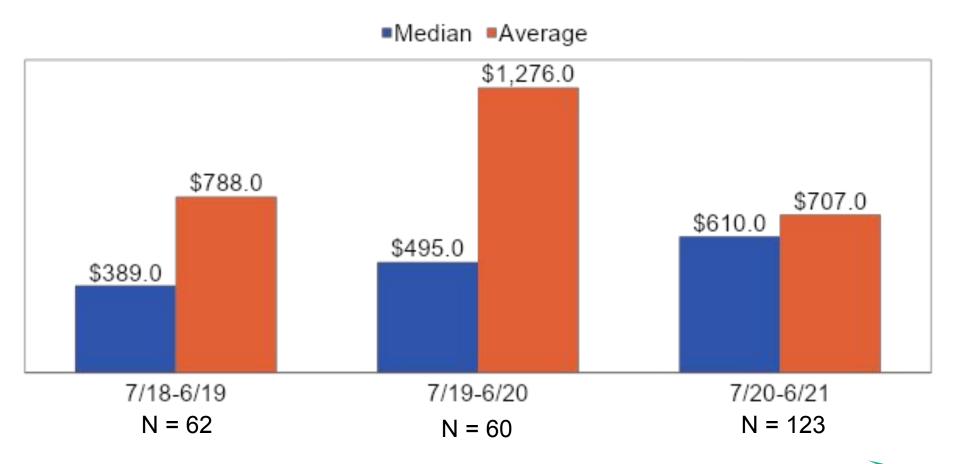






Median Post-IPO Market Capitalizations Have Risen Steadily in Recent Years

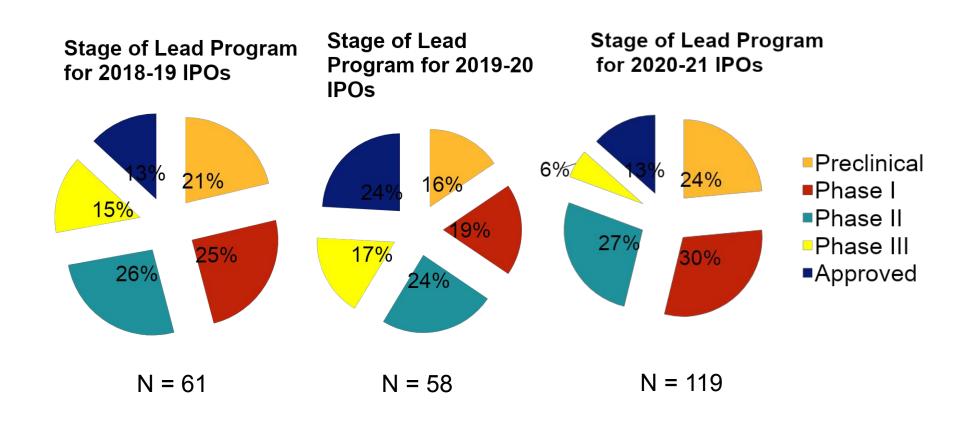
Post-IPO Market Cap by Year of IPO (\$M)







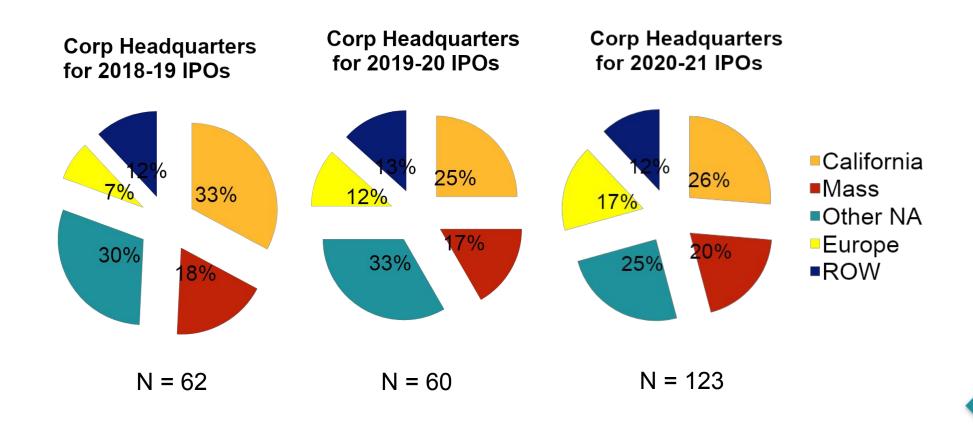
With IPO Class as Dominant Deal Licensors (& 2nd Most Active Licensees), Stage of Program Development at IPO Matters







More Recent IPO Companies Have European Headquarters, But California and Massachusetts Still Dominate IPO HQs







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- Lessons from "Deals of Distinction" Nominees
- ☐ IPO Class of 2013 to 2021 New Kids on the Block
 - 60% of Public Biotechs Went IPO Since 2013
 - As Many IPOs Closed Last Year as in the Prior Two
 - Median IPO Size 25% Per Year to \$600M
 - Recent IPOs Have Had Earlier Stage Lead Programs
 - European IPOs are , But CA & MA Still Dominate
- ☐ Life Science Acquisitions The Attraction of Scale
- ☐ Greater China Alliances Changing the BD&L Game





The Attraction of Scale: Life Science Companies Undertake More/Larger M&A

- □ 960 Life Science Acquisitions & Asset Purchases Over the Past Three Years:
 - \$650B in Total Announced Deal Value
 - \$236B in Latest Year, Led by Alexion/AZ & Immunomedics/Gilead Deals
- □ 85 Public Life Science Companies Have Been Acquired Over the Past Three Years:
 - 54% of Public Co Acquisitions Were Members of the IPO Class of 2013-21

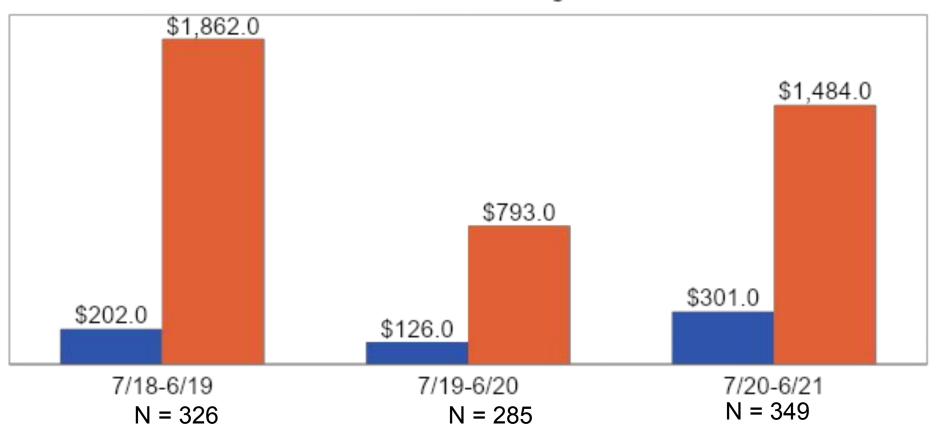




Announced Purchase Price of Life Science Acquisitions & Asset Purchases, Including Contingent Payments

Total Deal Size by Year of Transaction (\$M)

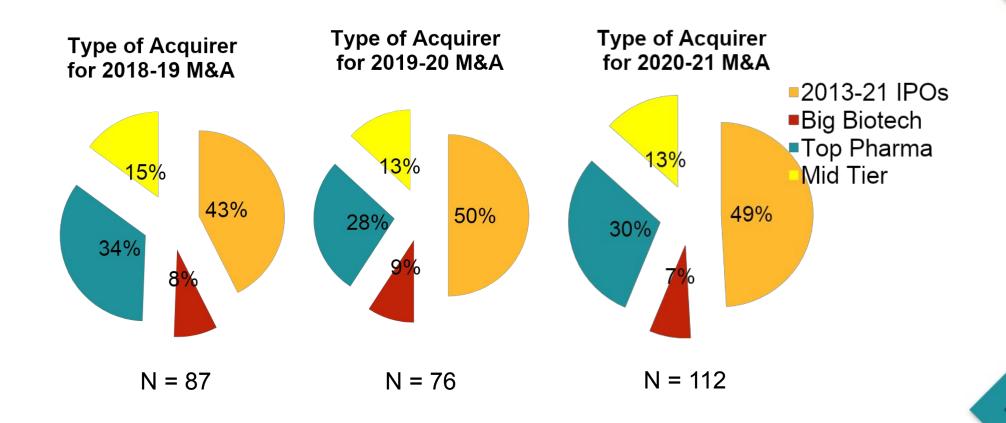
■Median ■Average







IPO Class Members Have Recently Emerged as the Dominant Acquirers of Life Science Companies







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- ☐ Life Science Acquisitions The Attraction of Scale
 - M&A Has Doubled in Aggregate & on Median Basis
 - 2013 to 2021 IPOs are Dominant M&A Participants
- ☐ Greater China Alliances Changing the BD&L Game





Changing the BD&L Game: Life Science Companies Go to China to Offset Dev Costs

- ☐ 194 Greater China Licenses Over the Past Three Years:
 - \$23B in Total Announced Alliance Value
 - "Greater China" Deals May Also Include, Taiwan, S. Korea & ASEAN Countries
- ☐ IPO Class of 2013-21 Are Dominant Licensors of Greater China Deals in Recent Years
 - 23% of Greater China Alliances Were Licensed by Members of the IPO Class of 2013-21

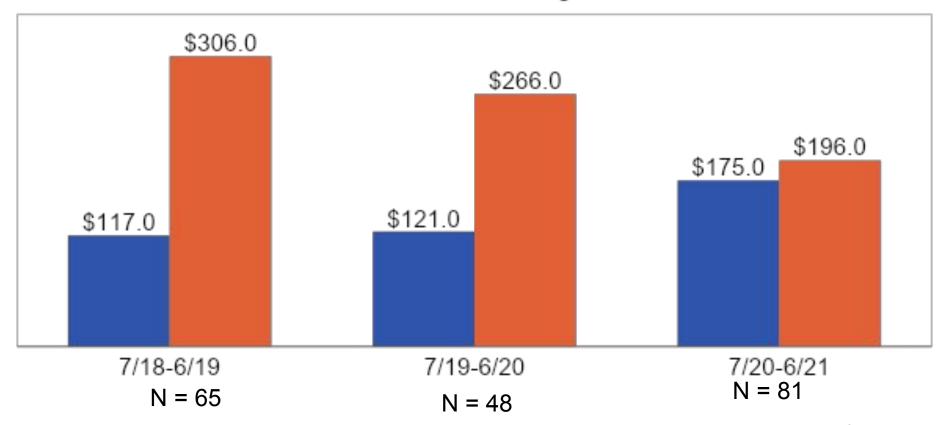




Life Science BD&L Executives Have Found A Reliable Option in Greater China Licenses

Total Deal Size by Year of Signing (\$M)

■Median ■Average







Regional Phase III License for Nasal Cardio Compound in Greater China

Etripamil Nasal Calcium Channel Blocker for Treatment of Paroxysmal

Milestone Pharm Supraventricular Tachycardia (5/21)

- \$15M upfront payment
- \$5M in pre-paid eq warrants
- Ji Xing pays dev costs in Territory
 - \$15.5M in dev/reg milestones
 - \$92M in sales milestones

Ji Xing

Milestone will supply at Manu Cost plus CON %

Low Double-digit to High Double-digit Royalties

Ji Xing has ROFN for Competing Products & ROFR for Other Products





Regional Phase II License for Oral Cancer Compound in Greater China

Adagrasib KRAS Inhibitor for Treatment of Lung & Colorectal Cancer (5/21)

Mirati Therapeutics

- \$65M upfront payment
- Zai pays dev costs in China for local studies & China trials in global studies
 - \$93M in dev/reg milestones
 - \$180M in sales milestones

Mirati has option to co-commercialize in Greater China for FTE reimb plus add'l royalty

High Teen to Low Twenties Royalties Zai Lab





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 - China Licenses Getting Richer on Median Basis
 - IPO Class Views Greater China as Reliable Source of Development Funding



