28 Jul 2022



# 天境生物 I-Mab Biopharma (IMAB US)

研发日披露多个积极数据,包括 CD47 MDS,CD73 以及早期管线 R&D day disclosed positive CD47 MDS data, also focusing on CD73 and early stage pipelines



观点聚焦 Investment Focus

| 维持优于                         | 大市 M            | aintain O           | IITDEDE           | )PM           |  |  |  |  |  |  |
|------------------------------|-----------------|---------------------|-------------------|---------------|--|--|--|--|--|--|
| 7E49 VC 1                    | /C '/' IVI      | anntann O           | OTPLNIC           | JINIVI        |  |  |  |  |  |  |
| 评级                           |                 |                     | 优于大市 O            |               |  |  |  |  |  |  |
| 现价                           |                 |                     | US\$10.42         |               |  |  |  |  |  |  |
| 目标价 US\$61.0                 |                 |                     |                   |               |  |  |  |  |  |  |
| MSCI ESG 评级 BBB              |                 |                     |                   |               |  |  |  |  |  |  |
| 来源: MSCI ESG Research        | LLC. Reproduce  | d by permission; no | further distribut | ion           |  |  |  |  |  |  |
| 市值                           |                 |                     |                   | US\$0.86bn    |  |  |  |  |  |  |
| 日交易额 (3 个月出                  | 匀值)             |                     |                   | US\$9.45mn    |  |  |  |  |  |  |
| 发行股票数目                       |                 |                     |                   | 82.65mn       |  |  |  |  |  |  |
| 自由流通股 (%)                    |                 |                     |                   | 100%          |  |  |  |  |  |  |
| 1年股价最高最低                     |                 | 11 4 11             | US\$80            | ).35-US\$8.27 |  |  |  |  |  |  |
| 注: 现价 US\$10.42 为            | 7 2022 年 7 /    | 月26日收益价             |                   |               |  |  |  |  |  |  |
|                              | Price Retu      | rn —N               | ASCI China        |               |  |  |  |  |  |  |
| 120                          |                 |                     |                   |               |  |  |  |  |  |  |
| 130                          | la .            |                     |                   |               |  |  |  |  |  |  |
| 100                          | - John Comment  | mm                  |                   | _             |  |  |  |  |  |  |
| 70 ——                        |                 | <b>M</b>            |                   |               |  |  |  |  |  |  |
| 40 ———                       | 40              |                     |                   |               |  |  |  |  |  |  |
| 10 ———                       |                 | <b>Y</b>            | The same          | ~             |  |  |  |  |  |  |
|                              |                 |                     |                   |               |  |  |  |  |  |  |
| /olume                       |                 |                     | . 1               |               |  |  |  |  |  |  |
| No No                        |                 | أستموانا ويتارك     | فيتأليب أوس       | nlasted &     |  |  |  |  |  |  |
| Jul-21                       | Nov-2           | )1 Ma               | r-22              | Jul-22        |  |  |  |  |  |  |
| 资料来源: Factset                | 140 0 2         | .I IVIO             | 1 22              | Jul ZZ        |  |  |  |  |  |  |
|                              |                 |                     |                   |               |  |  |  |  |  |  |
|                              |                 | 1mth                | 3mth              | 12mth         |  |  |  |  |  |  |
| 绝对值                          |                 | -15.6%              | -17.7%            | -85.8%        |  |  |  |  |  |  |
| 绝对值(美元)                      |                 | -15.6%              | -17.7%            | -85.8%        |  |  |  |  |  |  |
| 相对 MSCI China                |                 | -15.6%              | -17.7%            | -85.8%        |  |  |  |  |  |  |
| (5.1.)                       | D 244           | D 225               | D 225             | 5 245         |  |  |  |  |  |  |
| (Rmb mn)                     | Dec-21A         | Dec-22E             | Dec-23E           | Dec-24E       |  |  |  |  |  |  |
| 营业收入<br>(+/-)                | -94%            | 744<br>746%         | 1,070<br>44%      | 1,983<br>85%  |  |  |  |  |  |  |
| (+/-)<br>  净利润               | -2,332          | -1,311              | -1,444            | -39           |  |  |  |  |  |  |
| (+/-)                        | n.m.            | n.m.                | n.m.              | n.m.          |  |  |  |  |  |  |
| 全面摊薄 EPS                     | -13.35          | -7.50               | -8.27             | -0.22         |  |  |  |  |  |  |
| (Rmb)                        |                 |                     |                   |               |  |  |  |  |  |  |
| 毛利率<br>净资产收益率                | 47.3%<br>-50.8% | 95.0%<br>-40.0%     | 90.0%<br>-78.8%   | 90.0%         |  |  |  |  |  |  |
| 市盈率                          | -50.8%<br>n.m.  | -40.0%<br>n.m.      | -78.8%<br>n.m.    | -2.2%<br>n.m. |  |  |  |  |  |  |
| → 五十<br><i>资料来源:公司信息,H</i> 7 |                 | 11.111.             | 11.111.           | 11.111.       |  |  |  |  |  |  |

(Please see APPENDIX 1 for English summary)

# 事件

公司于7月20日举行研发日。

首次发布来佐利单抗(CD47)联用阿扎包苷在 MDS 适应症积极数据。在未经筛选的 MDS 患者中(TP53 突变占 10%) ORR 约 85%,CR 约 33%。详细数据已被选为优选口头报告形式在今年 ESMO 会议(9 月 13 日)发布。公司认为整体安全性良好,尚未披露详细安全性数据,但无预激给药。我们认为首次发布的 MDS 疗效数据降低了来佐利单抗的管线风险,缓解率与进展最快的 CD47 单抗吉利德 Magrolimab 的 ORR/CR 79%/33%相当,并与阿扎包苷联用维奈克拉疗效相当,但是 CD47 单抗组合的血液毒性更低(表一)。CD47单抗继续有望以安全性优势成为 AML/MDS 标准治疗方案。公司已于 2022 年第二季度向 CDE 递交临床设计方案,并正在沟通方案。计划于 2022 下半年启动来佐利单抗的 MDS 三期临床试验。

艾伯维终止来佐利单抗在多发性骨髓瘤美国临床研究。来佐利单抗单药或联合地塞米松以及抗骨髓瘤药物治疗多发性骨髓瘤的临床试验(NCT04895410),是由艾伯维开展的一项探索性临床研究。艾伯维因战略调整终止了此项试验,该决定与来佐利单抗的安全性无关。我们认为可能与吉利德正在进行但是暂停入组的多发性骨髓瘤临床,以及MM整体竞争格局较为激烈有关。国内临床方面,公司将按计划继续探索来佐利单抗与其它抗肿瘤药物联用治疗多发性骨髓瘤的研究。

艾伯维主导的来佐利单抗联合阿扎胞苷和维奈托克(venetoclax)治疗 AML/MDS 的临床试验(NCT04912063)继续推进。最新临床状态显示,艾伯维在今年 6 月曾更新入组状态,目前还是处于 1/2 期入组阶段。我们认为吉利德的 CD47 单抗临床延误或影响来佐利单抗在艾伯维管线研发优先顺序,因为目前标准疗法阿扎胞苷和维奈托克都是艾伯维旗下药物,竟对进度受阻代表 CD47 单抗迭代当前标准疗法的时间也会延后,因此研发急迫性减少。虽然如此我们认为来佐利单抗依然是艾伯维的重要管线之一。

尤莱利单抗(CD73 单抗)更新完整 CD73 高表达患者积极数据。在国内二期临床,尤菜利单抗联合特瑞普利的队列 3 晚期非小细胞肺癌不适合或拒绝标准治疗 19 名患者之中,7 名属于高表达(≥35%),出现 4 PR 3 SD,ORR 57%。虽然此数据不是预先设定的分组分析,但是早期数据积极,我们认为后续可以保持关注 2H22将会披露的尤菜利单抗特瑞普利单抗治疗 NSCLC 新数据,以及随访时间进一步延长后的缓解率生存获益数据。

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**其他早期管线介绍。**早期研发方向聚焦 1) 冷肿瘤转化热肿瘤,包括数个免疫激活机制产品 TJ-CD4B (CLDN18.2 x 4-1BB)、TJ-L1IF (PD-L1 x Interferon-a)、TJ-C64B (CLDN6 x 4-1BB)、TJ-L14B (PD L1 x 4-1BB)。2) 免疫佐剂路线,包括二期临床的 IL-7、TJ-AJ1 (靶向 IL-18)、TJ-AJ2 (靶向 GM-CSF)、TJ-CP1 等分子。

我们认为当前核心管线预期较低,股价整体也受到非基本面因素处于历史低位。但是CD47 整体血液瘤疗效数据依然扎实,CD73 高表达人群早期小样本数据有亮点。低预期之下 2H22 数据读出可能会催化公司股价,包括 1) ESMO (9 月) 正式读出来佐利单抗联合阿扎包苷 MDS 数据; 2) 尤菜利单抗特瑞普利单抗治疗 NSCLC 新数据 (4Q22); 3) TJCD4B 一期临床初步数据 (4Q22)。

# 模型更新

1)来佐利单抗(CD47)由于首次披露较为积极的 MDS 数据,上调 PoS 从 60%->65%; 美国临床进展较慢,上市时间从 2025 年延后至 2026 年。2)移除 TJ301(IL-6)估值, 主要由于公司管线图移除了 TJ301; 3)移除 B7-H3 估值,由于美国合作伙伴 MacroGenics 在 B7-H3 的 SCCHN 临床阶段严重出血事件,终止该适应症研发(新闻 稿); 4)移除 GM-CSF(TJM2)主要由于公司集中研发核心管线,新冠适应症研发已 经减少投放资源。5)TJ-CD4B(Claudin 18.2/4-1BB)下调适应症空间以及市场份额,主 要由于我们认为 Claudin 18.2 ADC 可能在 Claudin18.2 高表达人群中的疗法卓越,以及 中低表达同样有效,对 4-1BB 路线的份额形成冲击。

# 估值

维持"优于大市"评级,调整目标价至每 ADS 61.08 美元(前值 76.35 美元)。我们预计公司 FY22-24 风险调整后的收入分别为人民币 7.44 亿元、10.70 亿元、19.83 亿元(前值为人民币 7.44 亿元、11.33 亿元、23.84 亿元),收入下调主要反映 CD47 的 AML 适应症三期临床启动时间后延的影响;我们预计公司 FY22-24 净亏损分别为人民币-13.11 亿元、-14.44 亿元、-0.39 亿元(前值净亏损为-13.11 亿元、-15.31 亿元、-0.51 亿元)。我们采用 DCF 模型对公司进行估值,WACC 给予 11.7%(前值 11.4%),上调主要由于贡献主要现金流的 CD47 海外进入关键性临床时间推迟。永续增长率取 3.0%(未改变)得到整体估值 43.98 亿美元。我们维持"优于大市"评级和目标价每 ADS 61.08 美元。

# 风险

ADR 退市风险、CD73 发生海外授权事件的不确定性、风险资产数据读出风险。

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# 表1 MDS 适应症阿扎包苷、维奈克拉组合以及联合 CD47 数据

| 公司                                    | 适应症                   | 试验阶段    | 疗法类型 | 适应症详情      | 入组数  | 最优剂量有效性   | 参考文献                             | ≥G3贫血 | ≥G3中性粒细胞减少             | ≥G3血小板减少               | NCT号        |
|---------------------------------------|-----------------------|---------|------|------------|------|---|----------------------------------|-------|------------------------|------------------------|-------------|
| magrolimab-阿扎胞苷                       | 联用                    |         |      |            |      |   |                                  |       |                        |                        |             |
| Gilead Sciences                       | 急性髓系白血病/<br>骨髓增生异常综合征 | I期      | 一线   | AML/MDS    | 68   | ORR: 79%; CR/CRi: 48%   | ASCO 2020                        |       |                        |                        | NCT03248479 |
| Gilead Sciences                       | 骨髓增生异常综合征             | 1309    | 一线   | HR-MDS     | 95   | TP53-wt MDS (n=61)<br>ORR 79%, CR 33%<br>TP53-mut MDS (n=25)<br>ORR 68%, CR 40% | ASCO 2022                        | 29%   | 21%                    | 29%                    | NCT03248479 |
| 阿扎胞苷单用                                |                       |         |      |            |      |   |                                  |       |                        |                        |             |
| Celgene                               | 骨髓增生异常综合征             | III期    | 一线   | HR-MDS     | 358  | mOS 24.5 months<br>ORR: 29%   | Lancet Oncol.<br>2009; 10(3):223 | 57%   | 91%                    | 85%                    |             |
| 阿扎胞苷-维奈克拉联用                           |                       |         |      |            |      |   |                                  |       |                        |                        |             |
| AbbVie + Genentech,<br>Inc.           | 骨髓增生异常综合征             | Щ       | 一线   | HR-MDS     | 43   | ORR: 86%(减毒方案)  | ASCO 2021                        |       | 减毒方案1:55%<br>减毒方案2:48% | 减毒方案1:32%<br>减毒方案2:38% |             |
| AbbVie + Genentech,<br>Inc. + Celgene | 骨髓增生异常综合征             | 琪       | 经治   | R/R MDS    | 44   | ORR: 38.6%  | ASH 2021                         | 18%   | 27%                    | 32%                    | NCT02966782 |
| Genentech, Inc.                       | 骨髓增生异常综合征             | 頂用      | 经治   | R/R HR-MDS | 12   | ORR: 75%  | ASCO 2022                        | 33%   |                        |                        | NCT04550442 |
| 來佐利单抗-阿扎胞苷联                           | 用                     |         |      |            |      |   |                                  |       |                        |                        |             |
| 天境生物                                  | 骨髓增生异常综合征             | 中国I/II期 | 一线   | HR-MDS     | 尚未公布 | ORR: ~85%, CR: ~33%   | ESMO 2022                        |       | 尚未公布                   |                        | NCT04202003 |

资料来源: ClinicalTrials.gov, HTI

# 表2 研发日公布的研发管线图

| 管线资产                                  | 商业化权利               | 适应症 (联用产品)  | 临床一期      | 临床二期                                     | 注册性临床         | BLA       | 进行中 计划开展    |
|---------------------------------------|---------------------|---|-----------|--|---------------|-----------|-------------|
| <b>菲泽妥单抗 TJ202</b><br>差异化CD38单抗       | 大中华地区               | 3L, 2L (LEN) 多发性骨髓瘤<br>1L/2L (新联用组合) 多发性骨髓瘤                                 |           | 2023/2024                                | 二线多发性骨髓瘤      | 三线多发性骨髓瘤  | II XIJI IBK |
| 伊坦生长激素 TJ101<br>差异化长效生长激素             | 中国                  | 生长激素缺乏症   |           |  | 生长激素缺乏症       | 2023/2024 |             |
| 来 <b>佐利单抗 TJC4</b> (艾伯维)<br>差异化CD47单抗 | 大中华地区 <sup>2</sup>  | 急性粒细胞性白血病 (AZA)<br>骨髓增生异常综合症 (AZA)<br>非霍奇金淋巴瘤 (rituximab)<br>实体瘤 (PD-1 或其他) |           | 急性粒细胞性白血病<br>骨髓增生异常综合的<br>非霍奇金淋巴瘤<br>实体瘤 | <b>並</b> 2022 |           |             |
| <b>尤葉利单抗 TJD5</b><br>差异化CD73单抗        | 全球                  | 非小细胞肺癌 (PD-1/PD-L1)<br>实体瘤 (新联用组合)  |           | 非小细胞肺癌 实体瘤 新联用组合                         | 2023          |           |             |
| <b>普那利单抗 TJM2</b><br>GM-CSF单抗         | 全球                  | 细胞因子释放综合症   |           | CRS-COVID-19                             |               |           |             |
| <b>依布妥组单抗 TJ271</b><br>创新B7-H3单抗      | 大中华地区               | 实体瘤 (PD-1)  |           | 实体瘤                                      |               |           |             |
| <b>依非白介豪 TJ107</b><br>创新长效 IL-7       | 大中华地区               | 实体瘤 (PD-1)  |           | 实体瘤                                      |               |           |             |
| T <b>J210</b><br>创新C5aR单抗             | 大中华地区<br>韩国<br>全球共享 | 实体瘤 (PD-1)  | 实体瘤       | )  |               |           |             |
| <b>TJ-L14B</b><br>差异化PD-L1 x 4-1BB    | 全球共享                | 实体瘤   | 实体瘤       |  |               |           |             |
| TJ-CD4B<br>创新Claudin 18.2 x 4-1BB     | 大中华地区<br>全球共享       | 胃癌<br>胰腺癌   | 胃癌<br>胰腺癌 |  |               |           |             |

资料来源: ClinicalTrials.gov, HTI

28 Jul 2022

# 表3 预测上市时间以及峰值变化

| Old model estimation                  |             |          |              |                               |             | New model estimation |              |                               |  |
|---------------------------------------|-------------|----------|--------------|-------------------------------|-------------|----------------------|--------------|-------------------------------|--|
| Drugs                                 | Est. Launch | Est.Peak | Success rate | Risk adj. peak sales (Rmb mn) | Est. Launch | Est.Peak             | Success rate | Risk adj. peak sales (Rmb mn) |  |
| In-house-products                     |             |          |              |                               |             |                      |              |                               |  |
| TJC4 (CD47) - in China                | 2024E       | 2029E    | 60%          | 1,300                         | 2025E       | 2030E                | 65%          | 1,409                         |  |
| TJD5 (CD73) - in China                | 2025E       | 2028E    | 40%          | 376                           | 2025E       | 2028E                | 40%          | 376                           |  |
| TJM2 (GM-CSF) - global                | 2025E       | 2031E    | 30%          | 181                           | NA          | NA                   | NA           | 0                             |  |
| TJ-CD4B (Claudin 18.2/4-1BB) - global | 2025E       | 2031E    | 10%          | 1,364                         | 2026E       | 2031E                | 15%          | 359                           |  |
| In-licensed products in China         |             |          |              |                               |             |                      |              |                               |  |
| TJ202 (CD38) - only in China          | 2023E       | 2029E    | 90%          | 1,023                         | 2023E       | 2029E                | 90%          | 1,023                         |  |
| TJ101 (LAGH) - only in China          | 2024E       | 2031E    | 70%          | 400                           | 2024E       | 2031E                | 70%          | 400                           |  |
| TJ301 (IL-6)                          | 2024E       | 2031E    | 40%          | 396                           | NA          | NA                   | NA           | 0                             |  |
| TJ107 (IL-7) - only in China          | 2024E       | 2031E    | 50%          | 141                           | 2025E       | 2031E                | 50%          | 141                           |  |
| B7-H3 - only in China                 | 2024E       | 2031E    | 20%          | 85                            | NA          | NA                   | NA           | 0                             |  |
| TJ210 (C5aR) - only in China          | 2026E       | 2031E    | 15%          | 109                           | 2026E       | 2031E                | 15%          | 109                           |  |
| Upfront, milestone & royalty          |             |          |              |                               |             |                      |              |                               |  |
| related to TJC4                       |             | 2030E    | 50%          | 3,213                         |             | 2031E                | 50%          | 3213                          |  |
| related to TJD5                       |             | 2031E    | 40%          | 2,085                         |             | 2031E                | 40%          | 2085                          |  |
| related to TJ101                      |             | 2031E    | 70%          | 179                           |             | 2031E                | 70%          | 179                           |  |

资料来源: HTI

# DCF 估值模型

| RMB mn                            | FY21     | FY22E    | FY23E    | FY24E          | FY25E   | FY26E   | FY27E            | FY28E               | FY29E   | FY30E   | FY31E    |
|-----------------------------------|----------|----------|----------|----------------|---------|---------|------------------|---------------------|---------|---------|----------|
|                                   | 2021     | 2022     | 2023     | 2024           | 2025    | 2026    | 2027             | 2028                | 2029    | 2030    | 2031     |
| Forecast Year                     | 1        | 2        | 3        | 4              | 5       | 6       | 7                | 8                   | 9       | 10      | 11       |
| Time Factor                       | 1.0      | 2.0      | 3.0      | 4.0            | 5.0     | 6.0     | 7.0              | 8.0                 | 9.0     | 10.0    | 11.0     |
| (fraction of year to next FY end) |          |          |          |                |         |         |                  |                     |         |         |          |
| Sales                             | 88.0     | 744.5    | 1,069.7  | 1,983.2        | 3,565.7 | 4,625.2 | 6,495.3          | 7,084.5             | 8,779.3 | 8,973.1 | 9,262.9  |
| Growth                            | -94.3%   | 745.7%   | 43.7%    | 85.4%          | 79.8%   | 29.7%   | 40.4%            | 9.1%                | 23.9%   | 2.2%    | 3.2%     |
| Gross Profit                      | 41.6     | 707.2    | 962.7    | 1,784.9        | 3,280.4 | 4,255.2 | 5,975.7          | 6,517.7             | 8,076.9 | 8,255.3 | 8,521.9  |
| GP Margin                         | 47.3%    | 95.0%    | 90.0%    | 90.0%          | 92.0%   | 92.0%   | 92.0%            | 92.0%               | 92.0%   | 92.0%   | 92.0%    |
| SG&A                              | 0.0      | 0.0      | -256.7   | -357.0         | -748.8  | -832.5  | -974.3           | -850.1              | -877.9  | -897.3  | -926.3   |
| SG&A Margin                       | 0.0%     | 0.0%     | 24.0%    | 18.0%          | 21.0%   | 18.0%   | 15.0%            | 12.0%               | 10.0%   | 10.0%   | 10.0%    |
| Depreciation & Amortisation       | 4.7      | 14.4     | 28.7     | 37.2           | 43.8    | 55.4    | 71.7             | 79.4                | 73.4    | 69.0    | 65.5     |
| EBIT                              | -2334.7  | -1281.5  | -1412.0  | -38.2          | 663.2   | 1640.2  | 2814.3           | 3492.7              | 4762.2  | 4866.8  | 5023.3   |
| Add: Amortisation                 | 0.0      | 0.0      | 0.0      | 0.0            | 0.0     | 0.0     | 0.0              | 0.0                 | 0.0     | 0.0     | 0.0      |
| EBITA                             | -2334.7  | -1281.5  | -1412.0  | -38.2          | 663.2   | 1640.2  | 2814.3           | 3492.7              | 4762.2  | 4866.8  | 5023.3   |
| Margin<br>Growth                  | -2652.3% | -172.1%  | -132.0%  | -1.9%          | 18.6%   | 35.5%   | 43.3%            | 49.3%               | 54.2%   | 54.2%   | 54.2%    |
| Add: Depreciation                 | 4.7      | 14.4     | 28.7     | 37.2           | 43.8    | 55.4    | 71.7             | 79.4                | 73.4    | 69.0    | 65.5     |
| EBITDA                            | -2,330.0 | -1,267.1 | -1,383.3 | -1.0           | 706.9   | 1,695.5 | 2,886.0          | 3,572.1             | 4,835.5 | 4,935.8 | 5,088.8  |
| Margin                            | -2647.0% | -170.2%  | -129.3%  | 0.0%           | 19.8%   | 36.7%   | 44.4%            | 50.4%               | 55.1%   | 55.0%   | 54.9%    |
| Less: Tax                         | 3.2      | 0.0      | 0.0      | 0.0            | -72.9   | -180.4  | -309.6           | -384.2              | -523.8  | -535.4  | -552.6   |
| Less: Minority Interests          | 0.0      | -29.2    | -32.1    | -0.9           | 13.4    | 33.2    | 57.0             | 70.8                | 96.5    | 98.6    | 101.8    |
| Less: Increase of Working Capita  | 200.0    | 200.0    | 200.0    | 200.0          | 200.0   | 200.0   | 200.0            | 200.0               | 200.0   | 200.0   | 200.0    |
| Less: Capex                       | -13.2    | -111.7   | -107.0   | -59.5          | -107.0  | -138.8  | -194.9           | -35.4               | -43.9   | -44.9   | -46.3    |
| Capex:Depreciation                | 2.8x     | 7.8x     | 3.7x     | 1.6x           | 2.4x    | 2.5x    | 2.7x             | 0.4x                | 0.6x    | 0.7x    | 0.7x     |
| Less: Acquisitions                | 0.0      | 0.0      | 0.0      | 0.0            | 0.0     | 0.0     | 0.0              | 0.0                 | 0.0     | 0.0     | 0.0      |
| Free Cash Flow                    | -2,140.1 | -1,207.9 | -1,322.4 | 138.7          | 740.4   | 1,609.6 | 2,638.6          | 3,423.3             | 4,564.3 | 4,654.2 | 4,791.7  |
| FCF Growth                        |          | -43.6%   | 9.5%     | -110.5%        | 433.9%  | 117.4%  | 63.9%            | 29.7%               | 33.3%   | 2.0%    | 3.0%     |
| PV of FCF                         | -1,915.6 | -967.8   | -948.5   | 89.0           | 425.5   | 828.0   | 1,215.0          | 1,411.1             | 1,684.1 | 1,537.2 | 1,416.6  |
| WACC                              |          |          |          |                |         |         | CF Valuation     |                     |         |         |          |
| Risk Free Rate                    | 3.0%     |          |          |                |         |         | um of PV of FCI  |                     |         |         | 6,690.3  |
| Market Risk Premium               | 12.5%    |          |          |                |         |         | V of Terminal Va | alue                |         |         | 16,742.9 |
| Equity Beta                       | 0.92     |          |          |                |         |         | nterprise Value  |                     |         |         | 23,433.2 |
| Cost of Equity                    | 14.6%    |          |          |                |         |         | dd: Net Cash F   | <b>/</b> 21         |         | _       | 4,052.8  |
| Cost of Debt (Pre-tax)            | 6.0%     |          |          |                |         |         | quity Value      |                     |         |         | 27,486.0 |
| Cost of Debt (After tax)          | 5.1%     |          |          |                |         | No      | o. of Ord shares | s (m), fully dilute | d       |         | 72.0     |
| Target Debt weight                | 30.0%    |          |          |                |         |         |                  |                     |         |         |          |
| Target Equity weight              | 70.0%    |          |          |                |         |         | alue per Share,  | RMB                 |         |         | 381.73   |
| Tax Rate                          | 15.0%    |          |          |                |         | F)      | K: RMB/USD       |                     |         |         | 0.16     |
| WACC                              | 11.7%    |          |          | erminal Growth | 3.      |         | alue per Share   |                     |         |         | \$61.08  |

资料来源: HTI

# 财务报表

| Key ratios   | 2021A   | 2022E   | 2023E  | 2024E                            | Financial statement (RMB mn)              | 2021A | 2022E   | 2023E   | 2024  |
|--|---|---|--|----------------------------------|---|-------|---------|---------|-------|
| EPS(RMB)   | -13.35  | -7.50   | -8.27  | -0.22                            | Cash                                      | 3524  | 2366    | 1097    | 125   |
| BVPS(RMB)  | 26.26   | 18.76   | 10.49  | 10.27                            | Account receivable                        | 33    | 149     | 214     | 39    |
| Operating cash flow per share(RMB)   | -12.05  | -5.99   | -6.65  | 1.26                             | Inventory                                 | 27    | 22      | 63      | 11    |
| DPS(RMB)   | 0.00  | 0.00  | 0.00   | 0.00                             | Other current assets                      | 1198  | 808     | 463     | 4     |
| P/E  | n.a.  | n.a.  | n.a.   | n.a.                             | Total current assets                      | 4782  | 3345    | 1837    | 181   |
| P/B  | 4.04  | 5.66  | 10.12  | 10.34                            | Long-term equity investment               | .,,,, | 33.13   | 1007    | 101   |
| P/S  | 7.93  | 4.28  | 2.38   | 1.83                             | Tangible assets                           | 158   | 256     | 334     | 356   |
| EV/EBITDA  | -5.06   | -8.39   | -6.76  | -9979.63                         | Construction in progress                  | 130   | 250     | 334     | 330   |
| Dividned yield   | -5.00   | 0%  | 0%   | 0%                               | Intangible assets                         | 120   | 120     | 120     | 120   |
| Gross margin   | 47%   | 95%   | 90%  | 90%                              | Total non-current assets                  | 848   | 945     | 1023    | 1046  |
|  | -2649%  | -176%   | -135%  | -2%                              | Total assets                              | 5630  | 4290    | 2860    | 2862  |
| Net margin   |   |   | -79%   | -2%                              | Short-term debts                          | 0     | 0       | 0       | 2802  |
| ROE  | -51%<br>-41%  | -40%  |  |                                  |   |       |         |         |       |
| ROA  |   | -31%  | -50%   | -1%                              | Account payable                           | 0     | 34<br>0 | 48<br>0 | 89    |
| ROIC   | -26%  | -20%  | -39%   | -1%                              | Deferred revenue                          |       |         |         |       |
| Revenue growth   | -94%  | 746%  | 44%  | 85%                              | Other current liabilities                 | 624   | 624     | 624     | 624   |
| EBIT growth  | -582%   | -45%  | 10%  | -97%                             | Total current liabilities                 | 624   | 658     | 672     | 713   |
| Net profit growth  | -595%   | 45%   | -10%   | 97%                              | Long-term debts                           | 224   | 224     | 224     | 224   |
| Asset/liability ratio  | 541%  | 424%  | 278%   | 268%                             | Other long-term liabilities               | 194   | 131     | 131     | 131   |
| Liquidlity ratio   | 766%  | 509%  | 273%   | 255%                             | Total non-current liabilities             | 418   | 355     | 355     | 355   |
| Quick ratio  | 762%  | 505%  | 264%   | 238%                             | Total liabilities                         | 1042  | 1013    | 1027    | 1068  |
| Cash ratio   | 565%  | 360%  | 163%   | 176%                             | Shareholders' equity                      | 4588  | 3277    | 1833    | 1794  |
|  |   |   |  |                                  | Accumulated deficit                       | -4541 | -5852   | -7296   | -7335 |
| AR days  | 137   | 73  | 73   | 73                               | Mezzanine equity                          | 3104  | 3133    | 3165    | 3166  |
| Inventory days   | 214   | 214   | 214  | 214                              | Total liabilities and equities            | 5629  | 4290    | 2860    | 2862  |
| Total asset turnover   | 0.01  | 0.15  | 0.30   | 0.69                             |   |       |         |         |       |
| Fixed asset turnover   | 2.48  | 7.89  | 5.87   | 8.53                             | Code floor (Date) and                     | 20244 | 20225   | 20225   | 2024  |
|  |   |   |  |                                  | Cash flow (RMB mn)                        | 2021A | 2022E   | 2023E   | 2024  |
| IS (RMB mn)  | 2021A   | 2022E   | 2023E  | 2024E                            | Net profit                                | -2332 | -1281   | -1412   | -38   |
| Revenue  | 88  | 744   | 1070   | 1983                             | Deemed dividend to preferred shareholders | 0     | 29      | 32      |       |
| cogs   | 46  | 37  | 107  | 198                              | Depreciation & Amortization               | 5     | 14      | 29      | 37    |
| GPM (%)  | 47%   | 95%   | 90%  | 90%                              | Net Interest Expenses / (Income)          | -21   | -21     | -21     | -21   |
| Business tax and surcharges  | -3  | 0   | 0  | 0                                | Change in working capital                 | -200  | -200    | -200    | -200  |
| Tax rate (%)   | 0%  | 11%   | 11%  | 11%                              | Operating cash flow                       | -2106 | -1046   | -1162   | 220   |
| Operating expense  | 2113  | 2010  | 2396   | 1844                             | Assets                                    | -13   | -112    | -107    | -59   |
| Operating expense ratio (%)  | 2400%   | 270%  | 224%   | 93%                              | Investment                                | 0     | 0       | 0       | (     |
| Selling expense  | 0   | 0   | 257  | 357                              | Others                                    | 0     | 0       | 0       | (     |
| Selling expense ratio (%)  | 0%  | 0%  | 24%  | 18%                              | Investment cash flow                      | -13   | -112    | -107    | -59   |
| Administrative expense   | 900   | 372   | 428  | 397                              | Increase in debts                         | 224   | 0       | 0       | (     |
| Administrative expense ratio (%)   | 1022%   | 50%   | 40%  | 20%                              | Proceeds from issue of shares             | 0     | 0       | 0       | (     |
| R&D expense  | 1213  | 1638  | 1711   | 1091                             | Others                                    | 0     | 0       | 0       | (     |
| R&D expense ratio (%)  | 1378%   | 220%  | 160%   | 55%                              | Financing cash flow                       | 224   | 0       | 0       | (     |
| EBIT   | -2335   | -1281   | -1412  | -38                              | Net cash inflow                           | -1895 | -1157   | -1269   | 161   |
|  | -2333   | -1281   | -1412  |                                  |   |       |         |         |       |
| Financing expense  |   | 0%  | 0%   | 0%                               |   |       |         |         |       |
|  | 00/   |   | U76  | 0%                               |   |       |         |         |       |
| Financing expense ratio (%)  | 0%  |   |  | _                                |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss   | 0   | 0   | 0  | 0                                |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit   | 0<br>21   | 0<br>21   | 21   | 21                               |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit  | 0<br>21<br>- <b>2071</b>                            | 0<br>21<br>-1303                                    | 21<br>- <b>1433</b>                            | 21<br>- <b>59</b>                |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net   | 0<br>21<br>- <b>2071</b><br>0                       | 0<br>21<br>- <b>1303</b><br>0                       | 21<br>- <b>1433</b><br>0                       | 21<br>- <b>59</b><br>0           |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net Pre-tax profit                              | 0<br>21<br>-2071<br>0<br>-2335                      | 0<br>21<br>-1303<br>0<br>-1281                      | 21<br>-1433<br>0<br>-1412                      | 21<br>-59<br>0<br>-38            |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net Pre-tax profit EBITDA                       | 0<br>21<br>-2071<br>0<br>-2335<br>-2330             | 0<br>21<br>-1303<br>0<br>-1281<br>-1267             | 21<br>-1433<br>0<br>-1412<br>-1383             | 21<br>-59<br>0<br>-38            |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net Pre-tax profit EBITDA Taxation              | 0<br>21<br>-2071<br>0<br>-2335<br>-2330             | 0<br>21<br>-1303<br>0<br>-1281<br>-1267             | 21<br>-1433<br>0<br>-1412<br>-1383             | 21<br>-59<br>0<br>-38<br>-1      |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net Pre-tax profit EBITDA Taxation Tax rate (%) | 0<br>21<br>-2071<br>0<br>-2335<br>-2330<br>-3<br>0% | 0<br>21<br>-1303<br>0<br>-1281<br>-1267<br>0<br>11% | 21<br>-1433<br>0<br>-1412<br>-1383<br>0<br>11% | 21<br>-59<br>0<br>-38<br>-1<br>0 |   |       |         |         |       |
| Financing expense ratio (%) Assets impairment loss Investment profit Operating profit Exceptional income-net Pre-tax profit EBITDA Taxation              | 0<br>21<br>-2071<br>0<br>-2335<br>-2330             | 0<br>21<br>-1303<br>0<br>-1281<br>-1267             | 21<br>-1433<br>0<br>-1412<br>-1383             | 21<br>-59<br>0<br>-38<br>-1      |   |       |         |         |       |

资料来源: HTI

28 Jul 2022 5



维持优干大市

### **APPENDIX 1**

#### Summary

The company held R&D day on July 20.

First published positive data for lemzoparlimab (CD47) in combination with azacitidine in MDS indications. In unscreened MDS patients (10% with TP53 mutation) ORR ~85% and CR ~33%. Detailed data has been selected as oral presentation at this year's ESMO meeting (13 Sep). The company believes that the overall safety is good, though detailed safety data not disclosed yet. We believe that the first published MDS efficacy data lower the pipeline risk of lemzoparlimab, with response rates comparable to the ORR/CR 79%/33% of the most advanced peer, Gilead's Magrolimab, and with an efficacy comparable to azacitidine+venetoclax, but the CD47 combo had lower hematologic toxicity (Table 1). CD47 mAb is expected to become the standard treatment for AML/MDS with its CR and safety advantages. The company has submitted a clinical design proposal to CDE in 2Q22 and is communicating the proposal. A Phase III clinical trial of lemzoparlimab in MDS is planned to be initiated in the 2H22.

AbbVie discontinues U.S. clinical study of lemzoparlimab in multiple myeloma. The clinical trial of lemzoparlimab alone or in combination with dexamethasone and antimyeloma drug in multiple myeloma (NCT04895410) is an exploratory clinical study conducted by AbbVie. AbbVie discontinued the trial due to a strategic consideration, a decision not related to the safety of lemzoparlimab. We believe that the decision may be related to Gilead's ongoing but suspended enrollment multiple myeloma clinical trial, as well as the fiercer competition in MM. In terms of China clinical development plan of lemzoparlimab, the company will continue to explore the study of lemzoparlimab in combination with other anti-tumor drugs in the treatment of multiple myeloma as planned. The AbbVie-led clinical trial of lemzoparlimab in combination with azacitidine and venetoclax in AML/MDS continues to advance (NCT04912063) but slower. The latest clinical status shows that AbbVie updated the enrollment status in June this year and is still in the Phase 1/2 enrollment stage. We believe that the clinical slowdown of Gilead's CD47 mAb may affect the development priority of lemzoparlimab in AbbVie's pipeline, because the current standard therapy azacitidine and venetoclax are both AbbVie's drugs, competitor's hindered progress means that the urgency of development its CD47 is lower. Nonetheless, we believe that lemzoparlimab remains one of AbbVie's important early pipelines.

Uliledimab (CD73 mAb) updated positive data for patients with high CD73 expression. In china phase II clinical trial, among the 19 patients with advanced non-small cell lung cancer in cohort 3 who were not suitable for or refused standard treatment, Uliledimab combined with PD-1 treated 7 with highly expressed CD73 status (≥35%). Among all had 4 PRs 3 SD, ORR 57%. Although this data is not a pre-specified group analysis, but it is positive. We believe that we can keep an eye on the new data set of Uliledimab + PD-1 in the treatment of NSCLC that will be disclosed in 2H22, as well as the response rate and survival benefit data at a longer follow-up time.

Other early pipelines. Early R&D focus on 1) Cold tumors transform into hot tumors, including 1) products with immune activation mechanism such as TJ-CD4B (CLDN18.2 x 4-1BB), TJ-L1IF (PD-L1 x Interferon-a), TJ-C64B (CLDN6 x 4-1BB), TJ-L14B (PD L1 x 4-1BB). 2) Immune adjuvant route, including phase II clinical molecules such as IL-7, TJ-AJ1 (targeting IL-18), TJ-AJ2 (targeting GM-CSF), and TJ-CP1.

We believe that the expectation on company's pipeline is now at a low point after successive setbacks, and the overall stock price is also hampered by non-fundamental factors. However, the overall efficacy data of CD47 in hematological tumors are still solid, and the early small sample data of CD73 high expression population brings hope. 2H22 data readout under low expectations may catalyze the company's share price, including 1) ESMO (Sep 13) officially read-out the MDS data of lemzoparlimab combined with azacitidine; 2) Uliledimab + PD-1 updated data for the treatment of NSCLC (4Q22); 3) Preliminary Phase I clinical data of TJCD4B (4Q22).

Model update: 1) Lemzoparlimab (CD47) increases PoS from 60%->65% due to the MDS de-risked; the clinical progress in the U.S. is slow, and the time to market is delayed from FY2025 to FY2026. 2) TJ301 (IL-6) was removed from valuation, mainly due to the removal of TJ301 from the company's pipeline map; 3) B7-H3 was removed from valuation, due to fatal hemorrhage events in the SCCHN clinical stage of B7-H3 by US partner MacroGenics, leading to the termination of clinical trial (press release); 4) Removal of GM-CSF (TJM2) from valuation due to the company's focus on research and development of the core pipeline, and the research and development of Covid indication has been very much slowdown by the company. 5) Lower the indication and market share of TJ-CD4B (Claudin 18.2/4-1BB), mainly because we believe that Claudin 18.2 ADC may have excellent data in the Claudin18.2 high expression population, while demonstrating efficacy in mid-to-low expression.

Valuation: Maintain "Outperform" rating and adjust target price to \$61.08 per ADS (previously \$76.35). We estimate the company's FY22-24 risk-adjusted revenue to be RMB 744 million, RMB 1.070 billion, and RMB 1.983 billion (previously RMB 744 million, RMB 1.133 billion, and RMB 2.384 billion), respectively. The revenue cut mainly reflects delayed CD47's AML phase III clinical trial; we also expect the company's FY22-24 net losses to be RMB -1.311 billion, -1.444 billion, and -39 million respectively (previous value net losses were -1.311 billion, -1.531 billion yuan, -51 million yuan). We use the DCF model to value the company, and WACC 11.7% (previous value 11.4%). The upward adjustment is mainly due to the delay in the overseas progress of CD47, which contributes to the main cash flow, into key clinical trials. Terminal growth rate 3.0% (unchanged) yields an overall valuation of \$4.398 billion USD. We maintain our "Outperform" rating and target price of \$61.08 per ADS.

Risk: ADR delisting risk; uncertainty of out-licensing event for CD73; risk of negative data readout.



### 附录 APPENDIX

#### 重要信息披露

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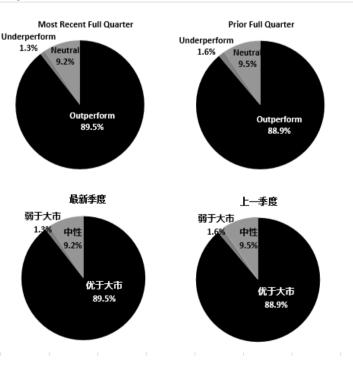
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|-------------|-------|------------|------|
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| 投资银行客户*     | 5.9%  | 5.6%       | 5.0% |

<sup>\*</sup>在每个评级类别里投资银行客户所占的百分比。

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卖出,未来 12-18 个月内预期相对基准指数跌幅在 10%以上,基准定义如下

各地股票基准指数: 日本-TOPIX,韩国-KOSPI,台湾-TAIEX,印度-Nifty100;其他所有中国概念股-MSCI China.

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|                              | Outperform | Neutral | Underperform |
|------------------------------|------------|---------|--------------|
|                              |            | (hold)  |              |
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| IB clients*                  | 5.9%       | 5.6%    | 5.0%         |

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### **Recommendation Chart**

# I-Mab Biopharma - IMAB US



- 1. 8 Mar 2021 OUTPERFORM at 49.28 target 79.99.
- 2. 31 Mar 2021 OUTPERFORM at 44.38 target 79.99.
- 3. 20 May 2021 OUTPERFORM at 63.46 target 83.59.
- 4. 9 Jul 2021 OUTPERFORM at 74.94 target 100.0.
- 5. 16 Aug 2021 OUTPERFORM at 70.18 target 100.0.
- 6. 15 Nov 2021 OUTPERFORM at 61.0 target 100.0.
- 7. 8 Apr 2022 OUTPERFORM at 16.69 target 76.35.

Source: Company data Bloomberg, HTI estimates

