

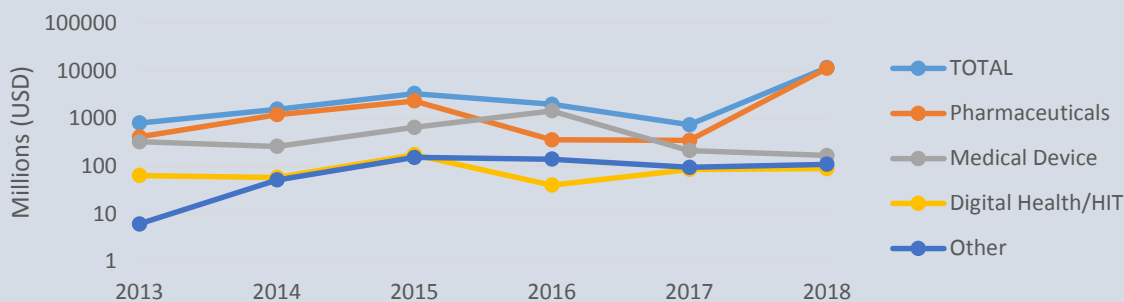


A monthly report summarizing the Life Science transactions and trends in Washington State.

Washington State Transactions

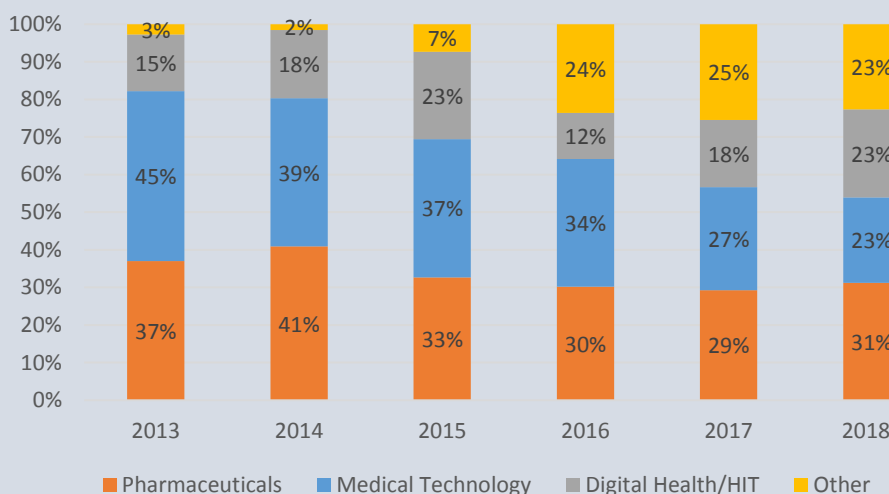
Washington State Transactions by Industry

Transaction amounts per year



Deals by Sector

*As of Dec 31, 2018



2018 Highlights

101 companies completed 129 deals

- Three large Mergers and Acquisitions were announced in the Pharmaceutical sector
- Non M&A activity accounted for \$850.6 million, an increase of \$1.2 million over 2017
- **2019 Deal to Watch:** Celgene acquisition by BMS for \$74 billion

Pharmaceuticals

Top 5 Deals:

1. **Juno Therapeutics** \$10B (Acquisition | Celgene)
2. **Cascadian Therapeutics** \$614M (Acquisition | Seattle Genetics)
3. **Universal Cells** \$102M (Acquisition | Astellas Pharma)
4. **Alder Biopharmaceuticals** \$100M (Equity)
5. **Impel Neuropharma** \$67.5M (Equity)

Medical Technology

Top 5 Deals

1. **Cardiac Dimensions** \$39M (Equity/Debt)
2. **Silverback Therapeutics** \$37.5M (Equity)
3. **EndoGastric Solutions** \$25M (Equity)
4. **Ventec Life Systems** \$13M (Equity)
5. **Bardy Diagnostics, Inc.** \$7.8M (Equity)

Digital Health/Health IT

Top 5 Deals

1. **98point6** \$50M (Equity)
2. **WeConnect** \$6M (Equity)
3. **Saykara** \$5M (Equity)
4. **Persona** \$4.5M (Equity)
5. **Brook.ai** \$4M (Equity)

This report is prepared by Ingrid Ruf, PhD. Questions or comments? Contact ingrid@lswinstitute.org.

**The data in this report are sourced from Pitchbook, Inc. and other publicly disclosed information.

It is not independently verified by Life Science Washington Institute.

2018 Highlights



Washington Life Science Transactions 2018

| Date | Company | Type | Amount (USD) | Date | Company | Type | Amount (USD) |
|----------|--|------------------------|----------------|----------|---|------------------------|--------------|
| 01/01/18 | Mindshare Medical | Equity | 310,000 | 04/30/18 | Growlife, Inc. | Equity | 100,000 |
| 01/02/18 | Kitotech Medical | Equity | 339,000 | 05/01/18 | Bellwether Bio, Inc. | Debt | 175,000 |
| 01/03/18 | Growlife, Inc. | Debt | 1,105,000 | 05/03/18 | Ventec Life Systems | Debt | 1,500,000 |
| 01/03/18 | WiseRG | Equity | 19,200,000 | 05/08/18 | Product Creation Studio | Equity | 2,000,000 |
| 01/03/18 | AgEnergy Solutions, LLC | Debt | 1,750,000 | 05/14/18 | Blaze Bioscience | Debt | 3,000,000 |
| 01/04/18 | Adaptive Biotechnologies | Corporate | undisclosed | 05/14/18 | Ventec Life Systems | Equity | 13,000,000 |
| 01/05/18 | Joylux, Inc. | Equity | 5,000,000 | 05/15/18 | CorneaGen, Inc. | Debt | 2,000,000 |
| 01/05/18 | Harvest Direct Enterprises, LLC | Equity | 132,500 | 05/15/18 | Nohla Therapeutics, Inc. | Equity | 45,000,000 |
| 01/05/18 | Vivo-TIL Therapeutics | Equity | 990,000 | 05/15/18 | Nexgenia, Inc. | Debt | 119,099 |
| 01/08/18 | Silverback Therapeutics | Other | 3,749 | 05/24/18 | RareCyte, Inc. | Equity | 5,000,000 |
| 01/08/18 | Stratos Genomics, Inc. | Equity | 20,156,456 | 05/30/18 | AbSci, LLC | Equity | 12,000,000 |
| 01/09/18 | ST Phi Therapeutics | Equity | 500,000 | 05/31/18 | Growlife, Inc. | Equity | 100,000 |
| 01/10/18 | Kv1.3 Therapeutics, Inc. | Debt | 168,182 | 05/31/18 | Aminex Therapeutics | Equity | 8,253,117 |
| 01/11/18 | Stemgenics, Inc. | Equity | 870,000 | 06/05/18 | Breast Microseed | Debt | 2,920,000 |
| 01/17/18 | Immusoft | Equity | 3,613,029 | 06/06/18 | Sound Pharmaceuticals, Inc. | Equity | 8,408,576 |
| 01/26/18 | Alder Biopharmaceuticals | Equity | 99,999,952 | 06/07/18 | CurvaFix, Inc. | Equity | 2,517,148 |
| 01/29/18 | PreViser | Equity | 3,000,000 | 06/08/18 | Bardy Diagnostics, Inc. | Equity | 7,750,018 |
| 01/31/18 | Seattle Genetics acq. Cascadian Therapeutics | Merger/ Acquisition | 614,000,000 | 06/14/18 | Brook.ai | Equity | 4,000,000 |
| 02/06/18 | Unna, LLC | Equity | 100,000 | 06/18/18 | MD Metrix | Equity | 758,000 |
| 02/06/18 | Feminina Group, Inc. | Debt | 25,000 | 06/20/18 | Wildflower Health acq. Circle Women's Health Platform | Merger/ Acquisition | Undisclosed |
| 02/12/18 | CTI BioPharma | Public Offering | 60,000,000 | 06/22/18 | Healionics | Debt | 1,048,068 |
| 02/13/18 | Catacore, Corp. | Equity | 25,000 | 06/27/18 | Revalerio Corp | Equity/Debt | 6,000,000 |
| 02/14/18 | Astellas Pharma acq. Universal Cells | Merger/ Acquisition | 102,500,000 | 07/03/18 | EndoGastric Solutions | Equity | 25,473,790 |
| 02/15/18 | Luna (iUNU, Inc.) | Debt | 5,000,000 | 07/03/18 | Viome, Inc. | Debt | 5,500,000 |
| 02/16/18 | Growlife, Inc. | Equity | 321,945 | 07/09/18 | Biodesix acq. Integrated Diagnostics | Merger/ Acquisition | Undisclosed |
| 02/16/18 | Growlife, Inc. | Equity | 1,000,000 | 07/09/18 | Phytelligence, Inc. | Equity/Debt | 16,846,281 |
| 02/26/18 | Carewave Medical, Inc. | Equity | 150,000 | 07/11/18 | Saykara | Equity | 2,250,000 |
| 02/28/18 | CytoDyn | Equity | 17,643,452 | 07/12/18 | Stemgenics, Inc. | Equity | 450,000 |
| 03/02/18 | Selkirk Pharma, Inc. | Equity/Debt | 1,725,000 | 07/12/18 | Nohla Therapeutics, Inc. | Equity | 11,000,000 |
| 03/06/18 | Celgene Corp. acq. Juno Therapeutics, Inc. | Merger/ Acquisition | 10,000,000,000 | 07/13/18 | StethIO | Debt | 1,240,000 |
| 03/06/18 | Taproot Medical Technologies | Equity | 1,249,993 | 07/19/18 | Carewave Medical, Inc. | Equity | 3,175,000 |
| 03/07/18 | ID Genomics SPC | Equity | 60,000 | 07/20/18 | Avalyn Pharma | Equity | 2,000,000 |
| 03/08/18 | Pascal Biosciences | PIPE | 4,080,000 | 07/20/18 | Stemgenics, Inc. | Equity | 445,000 |
| 03/09/18 | Invio, Inc. | Other | 100,000 | 07/25/18 | Presage Biosciences | Equity | 6,000,000 |
| 03/14/18 | Klatu Networks, Inc. | Equity | 5,650,367 | 07/25/18 | IsoRay, Inc | Other | 728,750 |
| 03/15/18 | Daysaver, Inc. | Debt | 80,000 | 07/26/18 | PharmID, Inc | Equity | 382,589 |
| 03/15/18 | Klatu Networks, Inc. | Equity | 1,074,292 | 07/30/18 | Predigen, Inc | Debt | 500,000 |
| 03/21/18 | Lumithera | Other | 775,000 | 08/02/18 | Viome, Inc. | Debt | 9,100,000 |
| 03/23/18 | Palabra Apps, Inc. | Equity | 2,000,000 | 08/10/18 | LumiThera, Inc. | Other | 840,000 |
| 03/26/18 | Growlife, Inc. | Equity | 41,690 | 08/12/18 | ApoGen Biotechnologies | Equity | 3,815,892 |
| 03/26/18 | Growlife, Inc. | Equity | 100,000 | 08/13/18 | Magnolia Neurosciences | Equity | 31,000,000 |
| 04/02/18 | Format Health, Inc. | Equity | 506,614 | 08/16/18 | Growlife, Inc. | Debt | 1,655,000 |
| 04/04/18 | DocToMe, Inc. | Equity | 150,000 | 08/16/18 | Sensoria Health, Inc | Debt | 352,000 |
| 04/05/18 | C-SATS, Inc. | Equity | Undisclosed | 08/23/18 | ApoGen Biotechnologies | Equity | 3,750,000 |
| 04/05/18 | Joylux, Inc. | Equity | 4,694,506 | 08/24/18 | TwinStrand Biosciences, Inc. | Debt | 1,177,536 |
| 04/12/18 | Dentasol, Inc. | Equity | 100,000 | 08/24/18 | Membrion, Inc. | Equity | 1,030,000 |
| 04/13/18 | 2Morrow, Inc. | Debt | 150,000 | 08/30/18 | 2Morrow, Inc. | Debt | 250,000 |
| 04/16/18 | Vera Whole Health, Inc. | Equity | 5,000,000 | 09/11/18 | OncoResponse | Equity | 40,000,000 |
| 04/19/18 | Madrona Health, Inc. | Other | 462,500 | 09/12/18 | Sengine Precision Medicine | Equity | 720,000 |
| 04/19/18 | CorneaGen, Inc. | Equity | 5,000,000 | 09/13/18 | Saykara | Equity | 5,000,000 |
| 04/26/18 | Cardiac Dimensions | Equity | 39,000,000 | 09/19/18 | Silverback Therapeutics | Equity | 37,500,000 |
| 04/27/18 | Harvest Direct Enterprises, LLC | Equity | 1,500,000 | 09/26/18 | Kineta | Equity | 7,060,000 |
| | | | | 10/10/18 | Solius | Equity | 790,000 |
| | | | | 10/12/18 | Split Biosciences | Debt | 1,240,000 |

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| Date | Company | Type | Amount (USD) |
|-------------------|-------------------------------|--------|-------------------------|
| 10/15/18 | AIDA by Health Care Solutions | Debt | 90,000 |
| 10/18/18 | WeConnect | Equity | 6,050,000 |
| 10/25/18 | Phytelligence, Inc. | Debt | 2,500,000 |
| 10/29/18 | SEngine Precision Medicine | Equity | 3,000,000 |
| 10/29/18 | Receptor Life Sciences | Equity | 36,450,000 |
| 10/30/18 | 98point6 | Equity | 50,000,000 |
| 10/31/18 | Novuson Surgical | Debt | 900,000 |
| 11/01/18 | Kitotech Medical | Debt | 1,920,000 |
| 11/07/18 | Invio, Inc. | Other | 100,000 |
| 11/20/18 | Nativis | Equity | 4,320,000 |
| 11/20/18 | DocToMe, Inc. | Equity | 210,000 |
| 11/21/18 | Good Therapeutics | Equity | 6,000,000 |
| 11/27/18 | MPIRICA | Debt | 128,500 |
| 11/30/18 | Kineta | Equity | 1,880,000 |
| 12/06/18 | Impel Neuropharma | Equity | 67,500,000 |
| 12/10/18 | Rodeo Therapeutics | Equity | 3,690,000 |
| 12/11/18 | Persona | Equity | 4,500,000 |
| 12/17/18 | LumiThera | Equity | 665,000 |
| 12/19/18 | M3 Biotechnology | Equity | 1,270,000 |
| 12/21/18 | SiDx | Equity | 715,000 |
| 12/28/18 | Vyrtv | Equity | 3,550,000 |
| 2018 Total | | | \$11,567,064,523 |

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