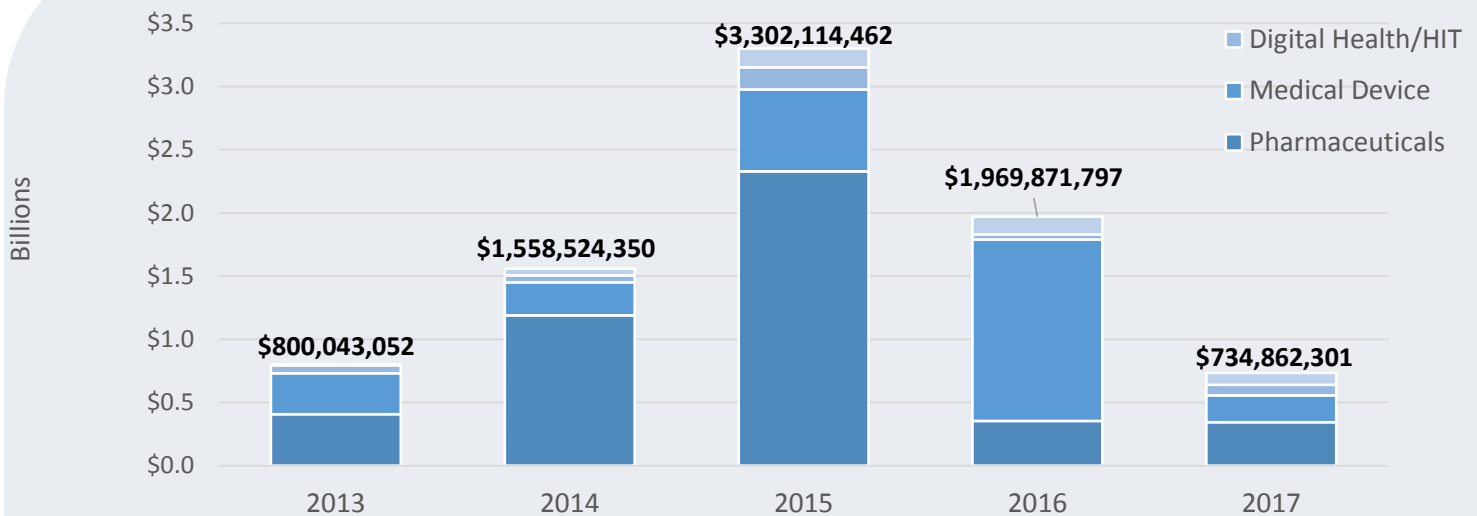


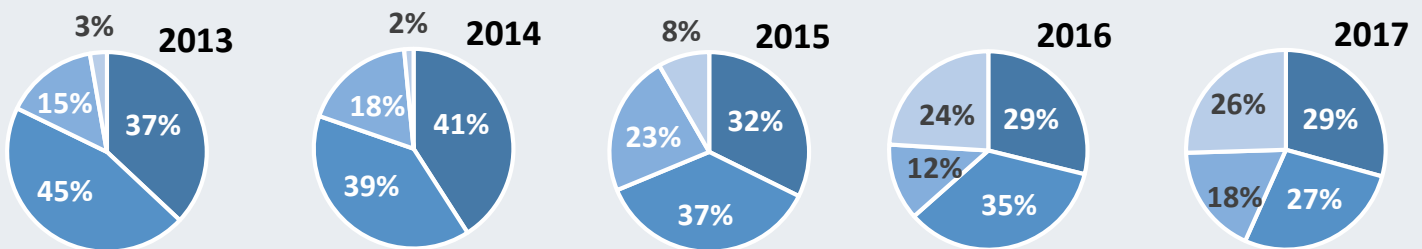
A monthly report summarizing the Life Science transactions and trends in Washington State.

Washington State Transactions

Washington State Transactions by Industry



Deals by sector



*As of December 31, 2017

2017 Highlights

98 companies made 157 deals

Investments in **digital health** were up 2% and **other deals** up 6% from 2016 at expense of **medical device** which is down 7% from 2016

- Transactions totaled less than \$1 billion for the first time since 2013
- **2018 Deal to Watch:** Juno acquisition by Celgene for \$9 billion

Medical Technology

Top 5 Deals:

1. **EchoNous** \$35M (Equity)
2. **Vicis** \$29M (Debt)
3. **Magnolia Medical Technologies, Inc.-** \$21,007,106 (Series B)
4. **Blaze Bioscience** \$16,108,197 (Series B-1)
5. **VIOME, Inc.** \$15,000,000 (Series A)

Pharmaceuticals

Top 5 Deals:

1. **Avalyn Pharma** \$62M (Equity)
2. **PVP Biologics** \$35M (Partnership w/Takeda Pharmaceutical Co. Ltd.)
3. **Faraday Pharmaceuticals** \$32,606,754 (Equity)
4. **Nohla Therapeutics** \$32,356,803 (Equity)
5. **Juno Therapeutics** \$31,091,407 (Equity)

Digital Health/ Health IT

Top 5 Deals:

1. **98Point6, Inc.** \$29,080,710 (Series B)
2. **Xealth** \$8.63M (Equity)
3. **KenSci** \$8.5M (Series A)
4. **Sterifre Medical, Inc.** \$4.8M (Equity)
5. **MPIRICA Health** \$4.6M (Series A)

This report is prepared by Christina Cantillo. Questions or comments? Contact Christina@lswinstitute.org.

**The data in this report are compiled from publicly disclosed information and is not independently verified by Life Science Washington.

2017 Highlights

Washington Life Science Transactions 2017

Date	Company	Type	Amount	Date	Company	Type	Amount
01/01/17	YouScript, Inc.	Equity	Undisclosed	05/19/17	Vesiflo, Inc	Equity	\$567,007
01/01/17	Adaptive Biotechnologies	Grant/SBIR	\$519,759	05/19/17	Healthy Minds Group	Equity	\$80,000
01/01/17	Lumithera, Inc	Grant/SBIR	\$140,000	05/25/17	VerAvanti	Equity	\$540,000
01/01/17	CanZx Biotherapeutics	Grant	\$50,000	05/25/17	Breast Microseed	Debt	\$991,598
01/02/17	PAI Life Science	Grant/SBIR	\$1,380,664	05/26/17	CS Insights	Debt	\$200,000
01/05/17	Klar Scientific	Grant/SBIR	\$210,000	05/26/17	Membrion	Grant	\$25,000
01/05/17	Aqueduct Critical Care, Inc	Debt	\$3,000,000	05/26/17	Cell Systems	Debt	\$200,000
01/05/17	PVP Biologics	Partnership	\$35,000,000	06/07/17	Stasys Medical	Equity	\$1,250,000
01/12/17	OtoNexus Medical Technologies	Equity	\$7,849,073	06/11/17	Carena	Debt	\$4,500,000
01/12/17	Growlife, Inc.	Equity	\$127,148	06/13/17	Arivale	Equity	\$13,600,000
01/18/17	Carena	Debt	\$1,500,000	06/13/17	LabConnect	Equity	\$24,500,000
01/25/17	KenSci	Equity	\$8,500,000	06/14/17	Vicis	Debt	\$29,000,000
01/31/17	Kineta	Equity and Debt	\$250,000	06/14/17	CytoDyn	Debt	\$1,150,000
02/01/17	ActX	Equity	\$1,250,000	06/19/17	Xealth	Equity	\$8,630,000
02/07/17	Bellwether Bio	Debt	\$2,750,000	06/21/17	MalarVx	Equity	\$1,050,000
02/07/17	Growlife, Inc.	Equity	\$15,000	06/21/17	Kindex Pharmaceuticals	Debt	\$1,050,000
02/08/17	Vesiflo, Inc	Equity	\$2,403,492	06/22/17	Blaze Bioscience	Debt	\$550,000
02/08/17	Growlife, Inc.	Debt	\$1,105,000	06/27/17	DocToMe, Inc	Equity	\$155,000
02/15/17	Omage Labs Inc	Equity and Debt	\$25,000	06/27/17	Aortica	Other	\$1,025,000
02/15/17	Joylux	Equity	\$1,500,000	06/29/17	Juno Therapeutics, Inc.	Equity	\$1,691,831
02/16/17	Nativis, Inc	Equity	\$9,618,795	06/30/17	Nortis, Inc	Debt	\$12,500
02/21/17	Cyrus Biotechnology	Equity	\$1,040,000	06/30/17	Growlife, Inc.	Equity	\$9,000
02/21/17	Faraday Pharmaceuticals	Equity	\$32,606,754	07/05/17	Phytelligence	Equity	\$7,000,000
02/23/17	Clocktree Systems Inc	Debt	\$600,000	07/13/17	Para.linq	Equity	\$4,200,000
02/27/17	DMD Therapeutics	Grant	\$400,000	07/13/17	Vicis, Inc.	Equity	\$10,000,000
02/28/17	Kineta, Inc.	Debt	\$47,250	07/17/17	Nortis, Inc	Equity	\$323,000
02/28/17	Kineta, Inc.	Debt	\$5,000,000	07/19/17	Solstice	Debt	\$1,000,000
03/02/17	KitoTech Medical	Equity	\$494,993	07/24/17	Alpine Immune Sciences	Equity	\$17,000,000
03/07/17	Kineta Viral Hemorrhagic Fever, LLC	Equity	\$33,750	07/25/17	Rodeo Therapeutics	Equity	\$5,900,000
03/09/17	TwinStrand Biosciences, Inc.		\$2,000,000	07/26/17	ELoupes	Debt	\$1,250,000
03/10/17	Gestalt Diagnostics	Equity	\$2,575,000	07/27/17	Cyrus Biotechnology	Equity	\$8,050,000
03/15/17	Avalyn Pharma, Inc.	Equity	\$62,000,000	07/31/17	VIOME, Inc	Equity	\$15,000,000
03/17/17	Altopa, Inc	Equity and Debt	\$1,412,372	08/03/17	Aida (senior Care)	Equity	\$240,000
03/17/17	Growlife, Inc.	Equity	\$297,505	08/03/17	Kineta Immuno-Oncology, LLC	Equity	\$9,000
03/27/17	BloomAPI, Inc.	Equity	\$250,000	08/03/17	Kineta Chronic Pain, LLC	Equity	\$15,000
03/27/17	RightSciences LLC	Equity	\$20,000	08/07/17	AbSci, LLC	Equity	\$2,100,000
03/30/17	Magnolia Medical Technologies, Inc.	Equity	\$21,007,106	08/15/17	Precision Image Analysis	Equity	undisclosed
03/30/17	Ave Maria Biotechnology	Equity	\$200,000	08/16/17	SiDx	Equity	\$1,549,998
04/07/17	ID Genomics	Equity	\$680,000	08/18/17	Growlife, Inc.	Debt	\$1,105,000
04/13/17	M3 Biotechnology	Equity	\$1,400,000	08/22/17	IUNU, INC.	Equity	\$6,312,372
04/20/17	Vesiflo, Inc	Equity	\$330,000	09/01/17	Sensoria	Equity	undisclosed
04/24/17	MPIRICA Health	Equity	\$4,600,000	09/05/17	Proniras Corp	Equity	\$2,800,000
04/27/17	Cardiac Insight	Equity	\$2,510,000	09/05/17	Phytelligence	Equity	\$5,000,000
04/28/17	Ventec Life Systems	Equity	\$7,000,000	09/06/17	Cardiac Insight	Equity	\$4,500,000
05/01/17	Owl Insights, Inc.	Equity	\$2,000,000	09/07/17	Aqueduct Critical Care, Inc	Debt	\$640,000
05/01/17	VitalWare, LLC	Equity	undisclosed	09/12/17	Growlife, Inc.	Equity	\$100,000
05/01/17	Growlife, Inc.	Equity	\$27,000	09/12/17	Kineta, Inc.	Equity	\$5,500,000
05/02/17	Briotech	Equity	\$450,000	09/13/17	TwinStrand Biosciences, Inc.	Equity	\$5,280,338
05/15/17	Strive Tech	Equity	\$200,000	09/13/17	Petriage, Inc.	Equity	\$249,500
05/15/17	Oricula Therapeutics	Equity	\$300,000	09/13/17	Implicit Bioscience	Equity	\$125,000
05/15/17	Sengine	Equity	Undisclosed	09/19/17	ChoiceMap	Equity	\$220,080
05/17/17	SafKan	Grant	\$145,000	09/19/17	98Point6 Inc.	Equity	\$29,080,710
05/17/17	Kineta	Debt	\$3,000,000				

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Date	Company	Type	Amount
09/22/17	MarqMetrix, Inc.	Equity	\$1,040,001
09/22/17	Kineta, Inc. (2)	Debt	\$9,000,000
09/28/17	EchoNous	Equity	\$35,000,000
09/28/17	Nohla Therapeutics, Inc.	Grant	\$6,900,000
09/29/17	Cardiac Dimensions	Equity	undisclosed
09/29/17	Tunoptix, Inc.	Equity	\$250,000
10/05/17	Juno Therapeutics, Inc.	Equity	\$31,091,407
10/09/17	Blaze Bioscience	Equity	\$16,108,197
10/10/17	DocToMe, Inc.	Equity	\$690,000
10/11/17	PharmID	Equity	\$1,045,000
10/12/17	Opticyte	Debt	\$72,250
10/17/17	Cadence Child & Adolescent Therapy	Equity	\$1,240,000
10/17/17	KardioFit	Equity	\$3,767,196
10/17/17	Inside Out Medicine, Inc.	Equity/Debt	\$300,000
10/23/17	Kineta, Inc.	Equity	\$24,369,000
10/27/17	LAXCO, Inc.	Equity	\$1,000,000
10/31/17	LumiThera, Inc.	Equity	\$5,500,000
11/01/17	Frazier Healthcare Partners	Fund	
11/01/17	M3 Biotechnology	Equity	\$14,120,000
11/03/17	Growlife, Inc.	Equity	\$10,000
11/08/17	Pala.linq Social Purpose Corp.	Equity	\$2,400,000
11/10/17	Nativis, Inc.	Equity	\$6,000,000
11/13/17	RightSciences, LLC	Equity	\$435,000
11/14/17	Clario Medical Imaging, Inc.	Equity	\$735,000
11/15/17	ActX	Equity	\$3,110,000
11/16/17	Vyrty Corp.	Equity	\$500,000
11/16/17	Droneseed, Inc.	Equity	\$5,067,047
11/16/17	Nohla Therapeutics, Inc.	Equity	\$32,356,803
11/16/17	Kineta, Inc.	Debt	\$25,884
11/16/17	CytoDyn, Inc.	Equity	\$1,199,900
11/17/17	Carbitex, Inc.	Equity	\$3,799,991
11/21/17	Klatu Networks, Inc.	Equity	\$1,000,000
11/21/17	AVM Biotechnology, LLC	Equity	\$3,715,000
11/22/17	Benefit Solutions, Inc.	Equity	\$3,750,000
11/24/17	Growlife, Inc.	Equity	\$100,000
11/27/17	Phase Genomics	Debt	\$1,000,001
11/28/17	Kineta, Inc.	Equity	\$191,600
11/29/17	Mavupharma, Inc.	Equity	\$20,000,000
11/30/17	Arzeda Corp.	Equity	\$15,200,000
12/05/17	Lumen Bioscience	Equity	\$1,800,000
12/07/17	Sterifre Medical, Inc.	Equity	\$4,830,000
12/11/17	Petriage, Inc.	Equity	\$250,000
12/11/17	AVM Biotechnology, LLC	Equity	\$5,515,000
12/12/17	OtoNexus Medical Technologies	Equity	\$11,340,000
12/12/17	Kv1.3 Therapeutics, Inc.	Equity	\$16,000
12/15/17	Breast Microseed, Inc.	Debt	\$825,000
12/15/17	Growlife, Inc.	Equity	\$155,173
12/22/17	Joylux, Inc.	Equity	\$2,660,774
12/22/17	Growlife, Inc.	Equity	\$43,482
12/22/17	Oricula Therapeutics, LLC	Equity	\$30,000
12/31/17	Seal Rock Therapeutics	Equity	undisclosed
2017 Total			\$734,862,301