

# Comprehensive Cance Care

Integrating guidelines, science, and personalized treatment decisions in daily routines

Ulrich Keilholz

Charité Comprehensive Cancer Center



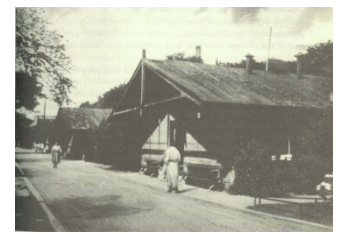
Comprehensive Cancer Center  
Universitätstumorzentrum



# Charité Comprehensive Cancer Center (CCCC)

1900: first „Cancer Baracks“

1900



1961



1945-1989 National Cancer Center GDR

1989



Oncology Center of Excellence 2008

2008



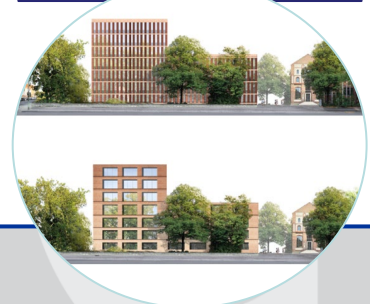
German Cancer Research Consortium (DKTK) Partner 2011

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Selected as „NCT Partner Site“ 2020



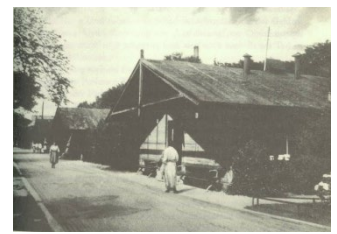
expected 2028



# CCCC: Development topics

- CCCC components, general infrastructure
- **Stringent multidisciplinary care**
- Outreach network
- Clinical Research network
- Translational research network
- Network supportive care

1900



1961



1989



2008



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# Quality Assessment and Quality Assurance

Annual internal and external audits of the **comprehensive** oncology center

**CCCC central units and Clinical operations**

**OnkoZert**

<b>Organ-Centers &amp; Disease areas</b>	Bowel, Stomach, Breast, Gynecology, Lung, Skin, Prostate
	Neuro-Oncology, Pediatric Oncology, Head & Neck Tumors
	Urogenital, NET, Sarcoma, Hematology, Endocrine Tumors
	Center for Visceral Oncology, Center for Uro-Oncology, Center for Hematology, Center for Familial Breast and Ovarian Cancer

**Comprehensive coverage with SOPs, adherence to all respective guidelines**

# Multidisciplinary Tumor Conferences (52 hours per week)

( > 92% of all cancer patients presented at least once to an interdisciplinary tumour board )

## Number of patients discussed in CCCC tumor boards

Year      Total #      External

2015      8,041      1,691

2016      8,568      1,821

2017      9,265      1,935

2018      10,231      2,140

2019      11,366      2,326

2020      No precise figures  
due to pandemia

Time	Monday	Tuesday	Wednesday	Thursday	Friday
07:00-07:30			Bundeswehr Hospital		
07:30-08:00			Prostate Center 7.00-7.45		Neurooncology CVK/CBF/CCM 07.45-9.15
08:00-08:30					
08:30-09:00	Pentoneal-Malignancies	Pancreas/Hepatobiliary	Upper GI-Tract	Unfallkrankenhaus Berlin	
09:00-09:30	CCM/CV/K/CBF 8.30-10.00	CVK/CCM/CBF 8.30-11.00	CVK/CCM 8.30-9.30	General Tumor 8.30-10.00	
09:30-10:00			Colorectal CCM/CV/K 9.30-11.00		
10:00-10:30					
10:30-11:00					
11:00-11:30					
11:30-12:00					
12:00-12:30		Lung CCM/CV/K 12.00-14.00			
12:30-13:00					
13:00-13:30	NET CV/K 13.00-14.30	Bethel Hospital General Tumor 13.30-14.30	Breast CCM/CBF/CV/K 13.00-15.00	Urogenital CCM/CV/K/CBF 13.00-14.30	
13:30-14:00			NMIBC 14.00-14.30	Gynecological (Online-TK) CV/K 13.30-14.30	
14:00-14:30	St. Gertrauden Hospital General Tumor 14.00-16.00	Molecular/nNGM CCM/CBF/CV/K 14.00-15.00	Gynecological CVK/CCM/CBF 14.30-16.30	Sana Klinikum Colorectal/Pancreas 14.30-16.00	Prostate Second Opinion CCM 14.00-16.00
14:30-15:00			Prostate (preth.) CBF/CCM 14.30-16.00	Lymphoma/Leukemia CCM/CV/K/CBF 14.45-15.45	CCCC Tumorconference
15:00-15:30	Endocrine CV/K/CCM 15.15-16.00	Skin CCM 15.00-16.30	Helios-Kl. Buch Neurooncolog. 15.00-16.00	Imm. Kl. Bernau General Tumor 15.00-15.30	St. Hedwigs-Hosp. General Tumor 15.30-16.30
15:30-16:00				Ped.-Hematolog. 16.00-17.00	
16:00-16:30	Head/Neck CV/K/CCM 16.00-17.30	Head/Neck CBF 16.00-17.00	Ped.-Oncolog. CVK 15.30-16.30	Colorectal/General CBF 16.15-17.45	Vivantes Klinikum Neukölln Neuroonkologische 16.00-17.00
16:30-17:00					External Tumorconference
17:00-17:30	Bundeswehr Hospital General Tumor 17.00-18.00 every second week	Ped.-Neuroonc. CVK 16.45-17.45	Vivantes Klinikum Urban Allg./Prostata 15.00-16.30		March 2021
17:30-18:00	Sarcoma CV/K/CCM 16.30-18.00			Practicing Urologists Tumor Conf. 18.00-19.30 (monthly)	Vivantes Klinikum Friedrichshain Haut/Allg./Prostata 15.00-18.00
18:00-18:30					



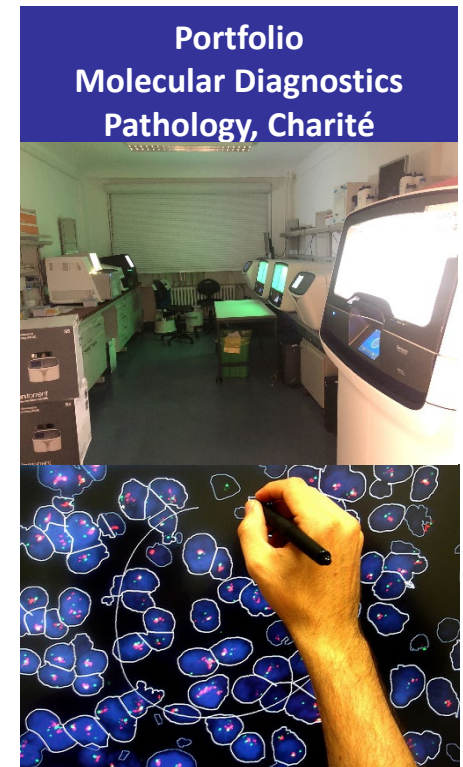
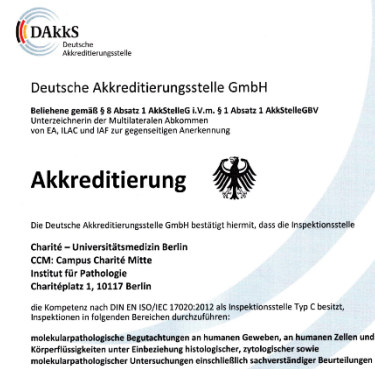
# Molecular Pathology: Broad Spectrum of Assays

## NGS (accredited/validated)

- nNGM Panel V1/2
- Oncomine Focus/Precision DNA Assay
- Oncomine Focus/Precision RNA Assay
- ColonLung Panel V2
- Cancer Hotspot Panel
- Myeloid Panel (Custom)
- (B-cell) Lymphoma Panel
- Oncomine cfDNA (Liquid Biopsies)
- Breast cfDNA Panel (Liquid Biopsies)
- BRCA1/2 Panel
- Tumor Mutational Burden (1.7 Mbases)
- Molecular Health 600+ Panel (3 Mbases); NextSeq

## New validation

- Oncomine Comprehensive Assay V4 (500+) Panel
- TSO500 (DNA/RNA) Panel
- Ig/TCR Clonality Panel



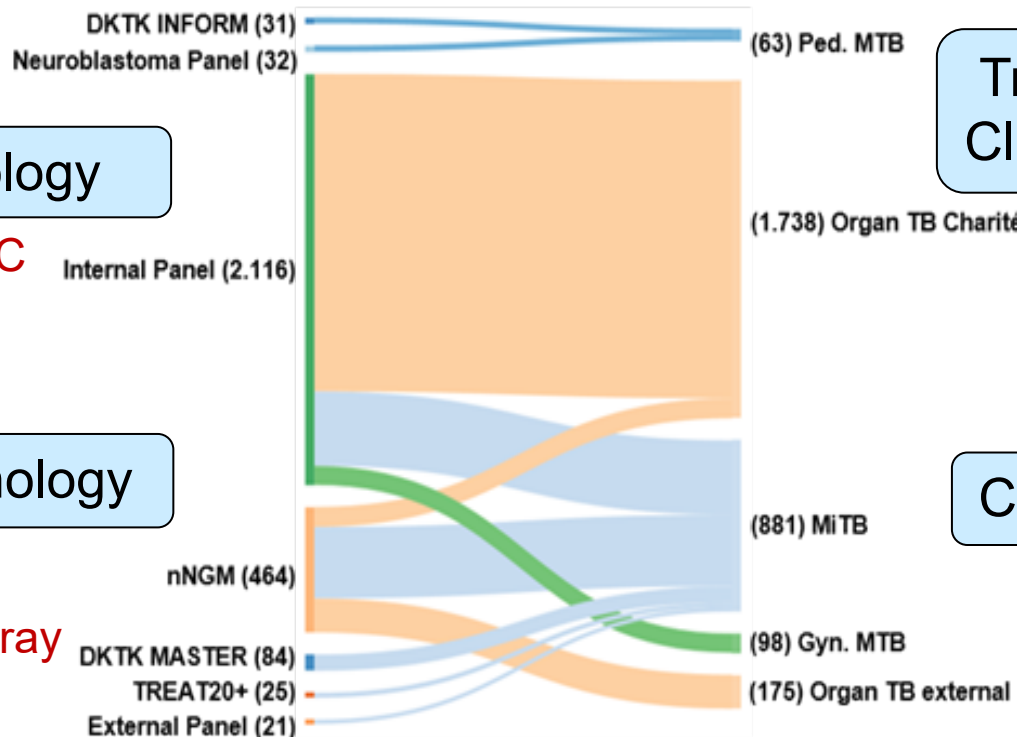
# High-volume Molecular & Immunologic Tumor Board (MiTB) (2,773 cases in 2020)

## Clinical Pathology

Panel seq + IHC

## Molecular Pathology

WES/WGS  
Methylation Array  
RNAseq



Treating Physician  
Clinical Department

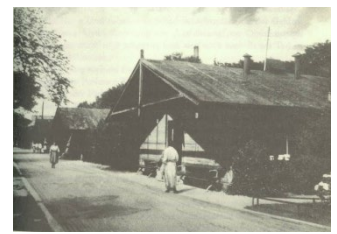
CCCC MiTB Team

Early Clinical  
Trials Team

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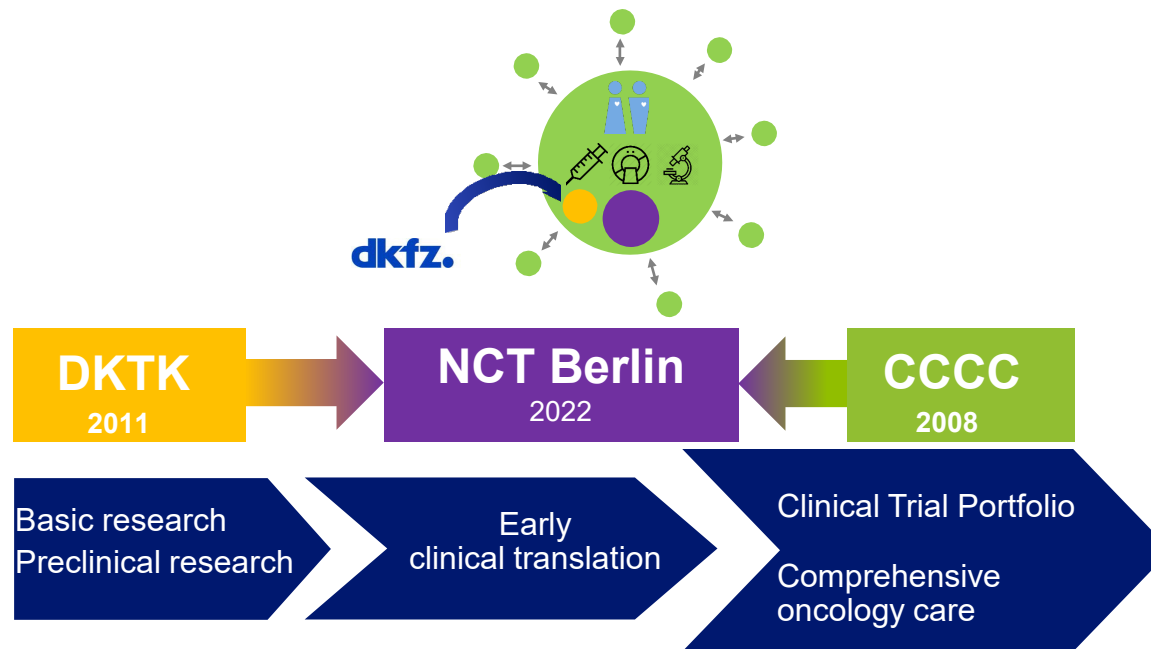


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# Seamless Integration of Research and Clinical Programs



# CCCC Trial Publications



European Journal of Cancer  
Volume 122, November 2019, Pages 53-60

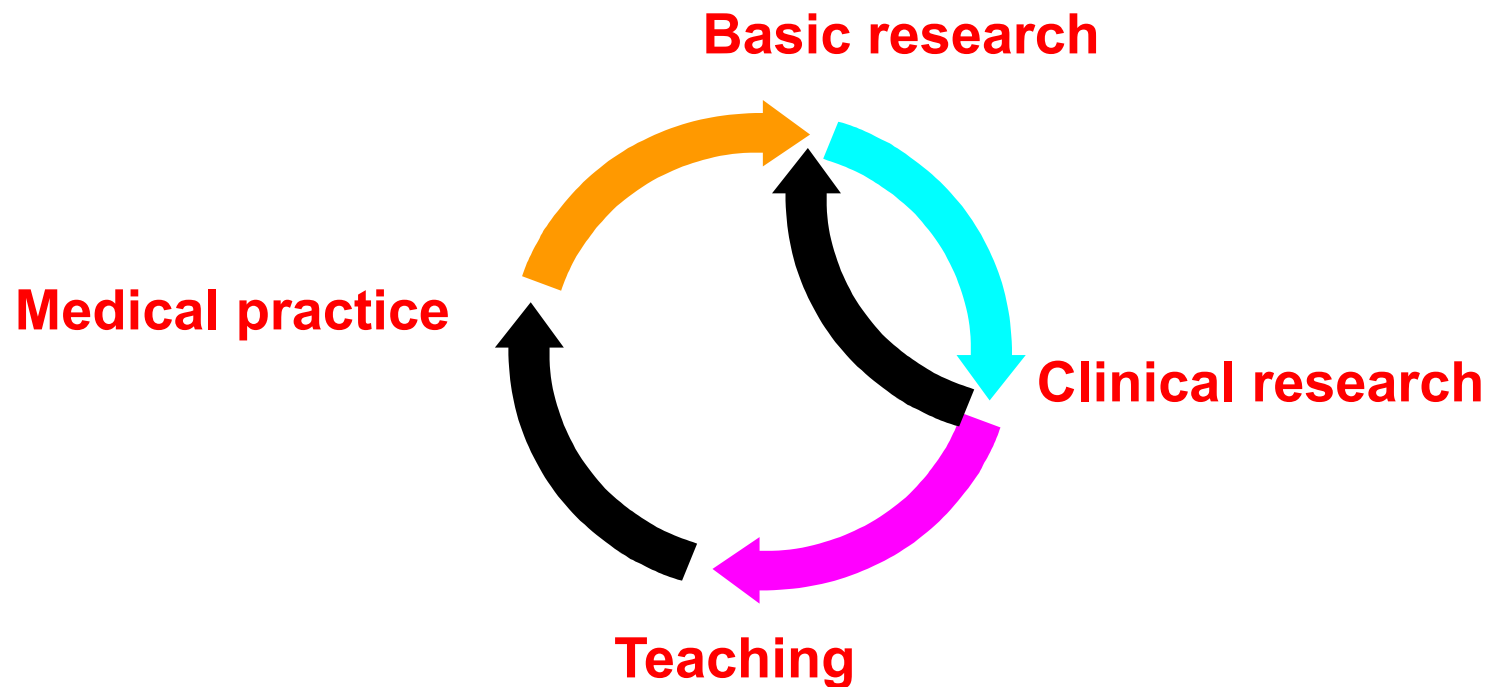


Clinical Trial

Cetuximab, fluorouracil and cisplatin with or without docetaxel for patients with recurrent and/or metastatic squamous cell carcinoma of the head and neck (CeFCiD): an open-label phase II randomised trial (AIO/IAG-KHT trial 1108)

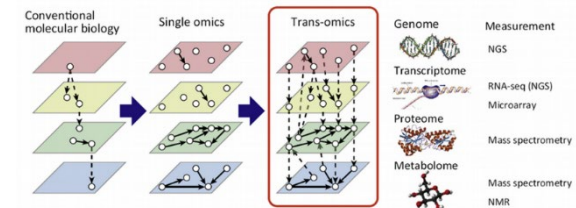
K. Klinghammer<sup>1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1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# TRANSLATIONAL RESEARCH CRUCIAL COMPONENT OF CLINICAL TRIALS



# Berlin Research Technology Infrastructure

- Panel sequencing
- WGS/WES
- lncRNAseq/circ RNA/circ DNA
- Single cell sequencing (genomics/transcriptomics)
- Proteomics, epigenomics, metabolomics
- CYTOF, Imaging Mass Spectrometry
- Flow Cytometry
- Optogenetics
- Cellular Imaging, imaging of animal models
- Data science support (bioinformatics, machine learning, modeling)
- Biometrics/clinical trial statistics support
- GMP Facilities



# Added Value of the CCCC for Research



- Clinical Cancer Registry, including long-term outcome data
- Homogenous clinical trial structure
- Molecular + Immunological Tumor Board (MiTB)
- Well-structured IT environment
- Common informed consent for TR
- Central point for research networks: “marketplace”
- Reverse translation from ongoing clinical trials
- Systematic collection, registration and provision of biomaterials
- Access to PDX models + drug testing data



# CCCC - Patient Advisory Board



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