# Budget Justification – Administrative Core – University of Southern California

A project of this scale requires leadership with a demonstrable track record of program administration and scientific excellence. Both the USC and UCLA groups have demonstrated leadership in large scientific efforts. The EpiBioS4Rx Center Without Walls will be led by Dr. Jerome Engel, the Lead PI and Center Director. Dr. Engel is Director of the UCLA Seizure Disorder Center, and he is a clinical epileptologists and basic neuroscientist with over 50 years of extensive experience leading large projects for research on epileptogenesis in patients and experimental models of human epilepsy including TBI/PTE. He is also an international authority in the field of epilepsy biomarkers. Dr. Engel is highly regarded nationally, and internationally, for his leadership abilities. He has been PI of the P20 planning grant and was instrumental in preparing this CWOW proposal, including organizing four preliminary workshops at UCLA. His decades-long career in the field of epilepsy makes him perfectly suited to bring together the 3 projects and 4 cores into a comprehensive Center.

The EpiBioS P20 award was made to the Laboratory of Neuro Imaging (LONI) at UCLA because only LONI has the uniquely comprehensive administrative team with extensive experience managing very large, complex projects. LONI has now moved to USC, consequently, EpiBioS4Rx will now be based at USC, and Dr. Arthur Toga, Director of LONI, will be the Contact PI. LONI has been the lead on many multi-center U-type projects and has the necessary infrastructure and personal to insure a smooth and efficient operation from finances to science. LONI developed the bioinformatics platform to identify biomarkers for ADNI, as well as several other multicenter projects on Parkinson’s disease, Huntington’s disease, and other brain disorders. LONI is currently the most sophisticated bioinformatics program for biomarker studies in the world. Since LONI moved to USC, it has worked effectively with UCLA to jointly administer activities of the P20, including preparation of this CWOW proposal, and this inter-institutional collaboration will continue if the CWOW is funded.

Dr. Engel at UCLA will provide scientific and programmatic leadership. UCLA is also the site of Project 3, where clinical data will be coordinated, and one of the sites for Projects 1 and 2 where animal data will be collected. Dr. Toga at USC will provide financial management of the center. USC is also the site of the Informatics and Analytics Core. Dr. Toga has the administrative resources to efficiently administer this grant, and thus, USC was selected by the PIs as the prime awardee site. The combined effort of the two sites is required to fully administer this center.

Arthur W. Toga, Ph.D., Co-Project Lead, 0.60 Calendar Months. Dr. Toga is the founder and director of the Laboratory of Neuro Imaging (LONI). He is director of the USC Stevens Neuroimaging and Informatics Institute. His formal training in neuroscience, computer science and informatics makes him well suited to lead this project. Dr. Toga has a career-long funding and publication record in informatics. He directs several national and international collaborative studies that involve multi-site acquisition of data, coordination of analysis, and dissemination of data and results. Dr. Toga has experience and expertise in image analysis, brain atlasing, multimodal integration, large-scale multisite trials, databasing and scientific visualization. He has developed a comprehensive supercomputing facility for neuroscience incorporating the latest technology in the analysis of structure and function of the brain in health and disease. Dr. Toga has the skills, knowledge, and resources necessary to serve as the contact PI for EpiBioS4Rx.

USC is listed as the primary site for all components, including components where USC has no budget. System limitations in ASSIST do not allow a key person to be listed with 0.00 calendar months. In order for ASSIST to validate the components where USC has no budget, Dr. Toga is listed with 0.01 calendar months of effort in each project period of the Public Engagement Core and Projects 1-3 as the Contact PI. Dr. Toga’s effort has been partially moved from the Admin Core to the 4 other components listed above so as to not artificially inflate effort calculations for the overall program. The funds requested in the Admin Core ($12,133/yr) represents 0.60 calendar months of actual effort, including effort in the 4 other components where USC has no budget (see table below).

|  | Year 1 | | Year 2 | | Year 3 | | Year 4 | | Year 5 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project / Core | Effort | Funds Requested | Effort | Funds Requested | Effort | Funds Requested | Effort | Funds Requested | Effort | Funds Requested |
| Admin Core | 0.56 | $12,133\* | 0.56 | $12,133\* | 0.32 | $12,133\* | 0.56 | $12,133\* | 0.56 | $7,138\* |
| Public Eng Core | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 |
| Project 1 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 |
| Project 2 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 |
| Project 3 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 | 0.01 | $0 |
| Total Effort / Funds Requested | 0.60 | $12,133 | 0.60 | $12,133 | 0.60 | $12,133 | 0.60 | $12,133 | 0.60 | $12,133 |
| \* $12,133 = 0.60 calendar months. Funds requests in Admin Core. | | | | | | | | | | |

Grace Liang-Franco, M.B.A, Project Coordinator, 1.20 Calendar Months. Ms. Liang-Franco has extensive experience in managing large-scale knowledge base projects and executive-level administration.  She will participate in implementing research and programmatic activities of EpiBioS4Rx, including planning and organizing the annual Scientific Advisory Board meeting, producing a comprehensive meeting handbook, and organizing workshops and courses.  She will also oversee collaborator service scheduling, logistics, and coordinate publications that are produced through the CWOW. In addition, she will work with each site to ensure that the various facets of the project are compatible and interoperable. She is proficient in software development life cycle and able to effectively communicate the project goals, needs and milestones with all lay and academic participants.

Randy Lovin Systems Administrator, 1.20 Calendar Months. Mr. Lovin has experience with SMP and cluster computing architectures, designing and implementing fault-tolerant storage as well as high-bandwidth networking.  He is familiar with the research user community.  His responsibilities will include design, implementation, configuration, tuning and maintenance of data networks and storage systems; providing excellence in networking performance.  He will implement and manage network infrastructure to ensure reliable, redundant and secure information systems.

Ping Chen, Web Designer, 5.40 Calendar Months. Mr. Chen is a producer of complex, highly technical medical and scientific visualizations that inform and captivate diverse audiences. He has a background in human anatomy and experience with illustrating towards subsequent repurposing and animation, animation for instrumentation, mechanisms of action, and patient education. He will oversee the overall website design for EpiBioS4Rx, including disseminating information for the Public Engagement Core.

Travel. We request a total of $14,400/year for project related travel. We request $2,400 per year for travel for members of the Science Advisory Board (SAB) to attend one annual meeting to assess progress and provide feedback to the PIs. There is a total of four SAB members. Travel costs are budget at $1,200/SAB member. Half of the travel costs are budgeted in the USC Admin Core budget and half of the travel costs are budgeted in the UCLA Admin Core budget. We also request $12,000/year for travel for members of the Data Safety Monitoring Board (DSMB). This includes travel to the annual meeting ($1,500 per US person: French and Twyman, $2,500 per foreigner: Perucca and Kwan) and $1,000 consultancy stipend per person. Travel for Jette is not being budgeted because she is serving as PI of the Public Engagement Core. DSMB members will participate at the annual meetings of the consortium to review and monitor progress, advise on strategies and path forward for Project 2, and advise Project 3 for preparation of their clinical cohort for a future clinical trial.

Project Related Costs (Meeting Costs, Mailing Costs). We request $4,235/year in years 1-4 and $10,872 in year 5 to run project related meetings, workshops, and collaborative/training visits.  The budgeted funds will be used to coordinate the workshop activities, such as training handbooks, workshop materials, brochures, and event associated fees including meals, space rental, housing, travel costs for the workshop participants, and transportation costs, etc. Funds are requested for photocopying, mailings and postage of documents and materials to the various collaborative sites.

Consortium/Contractual Costs. This proposal includes participation from the following subcontract site. The subcontract’s budget and budget justification is prepared individually.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Institution | Subaward PIs | Initial Budget Period | | | Entire Budget Period (5 Years) | | |
| Direct Costs | Indirect Costs | Total Costs | Direct Costs | Indirect Costs | Total Costs |
| University of California, Los Angeles | Vespa, Paul | 100,000 | 54,000 | 154,000 | 500,000 | 270,000 | 770,000 |
| Total Subaward Budget | | 100,000 | 54,000 | 154,000 | 500,000 | 270,000 | 770,000 |

The justification above is for this institution only. Please see Tables 1-3 in the following budget summary for budget distribution across the entire program.